

Memorandum

To: Wells, Rocky Reach, and Rock Island HCPs Hatchery Committees and Priest Rapids Coordinating Committee Hatchery Subcommittee Date: May 15, 2019

From: Tracy Hillman, HCP Hatchery Committees Chairman and PRCC Hatchery Subcommittee Facilitator

cc: Larissa Rohrbach, Anchor QEA, LLC

Re: Final Minutes of the April 17, 2019 HCP Hatchery Committees and PRCC Hatchery Subcommittee Meetings

The Wells, Rocky Reach, and Rock Island Hydroelectric Projects Habitat Conservation Plans (HCPs) Hatchery Committees (HCs) and Priest Rapids Coordinating Committee Hatchery Subcommittee (PRCC HSC) meetings were held in Wenatchee, Washington, on Wednesday, April 17, 2019, from 9:00 a.m. to 12:00 p.m. Attendees are listed in Attachment A to these meeting minutes.

Action Item Summary

Joint HCP-HCs and PRCC HSC

- Tracy Hillman will review aspects of the Independent Scientific Advisory Board's *Review of Spring Chinook Salmon in the Upper Columbia River* under HCP-HCs' purview (Item I-A). *(Note: this item is ongoing.)*
- Greg Mackey will continue researching broodstock composition and mating strategies for conservation programs, focusing on spring Chinook salmon at the Methow Hatchery (Item I-A). *(Note: this item is ongoing.)*
- Mike Tonseth will coordinate with Andrew Murdoch (Washington Department of Fish and Wildlife [WDFW]) to present pre-spawn mortality modeling results for spring Chinook salmon at an upcoming HCP-HC meeting (Item I-A). *(Note: this item is ongoing.)*
- Catherine Willard will update the genetics section of the *Monitoring and Evaluation (M&E) Plan for PUD Hatchery Programs (Update to the 2017 Plan)* based on the genetics panel recommendations and will append the recommendations from the panel to the plan (Item I-A). *(Note: this item is ongoing.)*
- Kirk Truscott will discuss with Colville Confederated Tribes (CCT) biologists whether elemental signature analysis could differentiate natural-origin Okanogan spring Chinook salmon from other natural-origin Chinook salmon during broodstock collection at Wells Dam for Methow Fish Hatchery programs (Item I-A). *(Note: this item is ongoing.)*

- Brett Farman will discuss with Charlene Hurst and Mike Tonseth the potential use of a multi-population model for estimating proportionate natural influence (PNI) for the Nason and Chiwawa spring Chinook salmon programs (Item I-A). *(Note: this item is ongoing.)*
- Mike Tonseth will confirm with Andrew Murdoch that Wenatchee spring Chinook salmon DNA sampling of the 2018 to 2023 returns is still consistent with the original Relative Reproductive Success Study extension agreement and provide an update to the extension. (Item I-A) *(Note: this item is ongoing.)*
- Larissa Rohrbach will add sizing of upper Columbia River conservation programs as a periodic agenda item (Item I-A). *(Note: this item is ongoing.)*
- Tracy Hillman and Larissa Rohrbach will maintain a list of outstanding topics for consideration in HCP-HCs and PRCC HSC meetings prior to development of the 2020 Broodstock Collection Protocols (Protocols) (Item I-A). *(Note: this item is ongoing.)*
 - Use of age-3 males in broodstock
 - Use of alternative, non-random mating strategies
 - Establishing ranges around broodstock collection targets
 - Source for Chiwawa spring Chinook salmon broodstock
- Tracy Hillman and Larissa Rohrbach will add review of the Protocols to the September meeting agenda to help the HCP-HCs and PRCC HSC identify co-authors and opportunities to discuss major revisions in advance of 2020 deadlines (Item II-A). *(Note: this item is ongoing.)*
- Brett Farman will ask Amilee Wilson and Craig Busack (National Marine Fisheries Service [NMFS]) to clarify the intent of the direction provided in NMFS Biological Opinions (BiOps) for marking Chiwawa and Nason conservation programs juvenile spring Chinook salmon (Item II-A).
- Mike Tonseth will ask Michael Humling (U.S. Fish and Wildlife Service [USFWS]) and Charlie Snow (WDFW) to estimate the number of Methow returns that are likely to return to Winthrop National Fish Hatchery to inform a translocation discussion during the April 17, 2019 HCP-HCs meeting (Item II-C). *(Note: this item is ongoing.)*
- Mike Tonseth will revise and redistribute the 2017 *Out-planting Surplus Methow Composite Spring Chinook Salmon Adults* memorandum for review and discussion during the May 15, 2019 HCP-HCs meeting (Item II-C).
- Deanne Pavlik-Kunkel will provide Grant PUD's approval of routine distribution of merged PRCC HSC and HCP-HC meeting materials according to the revised meeting protocols (Item II-E).
- Once approved by the HCP-HCs and PRCC HSC, Tracy Hillman will present the revised merged HCP-HC and PRCC HSC distribution list to the HCP-CC for approval (Item II-E).

Wells HCP Hatchery Committee

- Greg Mackey will provide a revised version of Douglas PUD's draft 2019 M&E Implementation Plan for HCP-HC approval by email (Item I-A). *(Note: this item is ongoing.)*

PRCC Hatchery Subcommittee

- Todd Pearsons will finalize the PRCC HSC-approved 2019 Priest Rapids Hatchery M&E Implementation Plan for distribution (Item III-B).
- HSC representatives will submit a list of minimum data or information needs for making a decision on the White River spring Chinook salmon hatchery program to Tracy Hillman (Item III-C).

Decision Summary

- The Rock Island HCP-HC and PRCC HSC Parties approved the proposed marking scheme for Chiwawa and Nason Conservation Program fish based on program assignment and parental origin (Item II-A). Chelan PUD, Grant PUD, USFWS, WDFW, CCT, NMFS, and the Yakama Nation (YN) approved during the meeting on April 17, 2019. Grant PUD provided their vote in an email by Tuesday April 23, 2019, with the following three contingencies:
 - It only applies to the brood year 2019 of the Nason Conservation Program until further information is provided (it does not apply to the brood year 2018 Nason Conservation Program because no hatchery by hatchery [HxH] crosses were necessary).
 - It is necessary to mark fish within the conservation portion of the program separately (e.g., if matings are mixed such as hatchery by wild [HxW] or if all crosses are wild by wild [WxW], then an additional tag may not be necessary).
 - Adequate risk management occurs to ensure that a caudal peduncle mark will not injure fish.
- The PRCC HSC approved the 2019 Priest Rapids Hatchery M&E Implementation Plan in today's meeting (Item III-B).

Agreements

- HCP-HCs and PRCC HSC will review the current broodstock collection protocols in September and October to identify changes needed in the next Protocols and determine who will make the revisions (Item II-B). Topics that deserve further discussion and/or Statements of Agreement (SOAs) will be identified on a case-by-case basis.
- The HCP-HCs and PRCC HSC will distribute draft materials only to a primary distribution list that includes representatives, alternates and select participants (Item II-E). Final materials will be sent to a broader/secondary distribution list.

Review Items

- Larissa Rohrbach sent an email to the HCP-HCs and PRCC HSC on April 18, 2019, notifying them that the SOA on development of annual broodstock collection protocols is available for review (Item II-B).

- Larissa Rohrbach sent an email to the HCP-HCs and PRCC HSC on April 18, 2019, notifying them that the updated meeting protocols, distribution lists, and draft Conflict of Interest SOA are available for review (Item II-E).

Finalized Documents

- Mike Tonseth informed Brett Farman and Charlene Hurst of the formal submission of the HCP-HCs, PRCC HSC, and Wells HCP-CC approved final 2019 Upper Columbia River Broodstock Collection Protocols to NMFS on March 28, 2019.

I. Welcome

A. Review Agenda, Review Last Meeting Action Items, and Approve the March 11 Conference Call Minutes and March 20, 2019 Meeting Minutes (Tracy Hillman)

Tracy Hillman welcomed the HCP-HCs and PRCC HSC and asked for any additions or changes to the agenda. No changes to the agenda were requested.

The HCP-HCs and PRCC HSC representatives reviewed the revised draft March 11 conference call and March 20, 2019 meeting minutes. Larissa Rohrbach said there were some revisions that the representatives then reviewed. The HCP-HCs and PRCC HSC representatives approved the draft March 11 conference call and March 20, 2019 meeting minutes as revised.

Action items from the HCP-HCs and PRCC HSC meeting on March 20, 2019, and follow-up discussions were addressed (*note: italicized text below corresponds to agenda items from the meetings on March 20, 2019*):

Joint HCP-HCs and PRCC HSC Topics

- *Tracy Hillman will review aspects of the Independent Scientific Advisory Board's (ISAB) Review of Spring Chinook Salmon in the Upper Columbia River under HCP-HCs' purview (Item I-A).* Hillman said this item is ongoing; he is working on statistical analysis for BACI designs, then will switch to reviewing the Independent Scientific Advisory Board material.
- *Greg Mackey will continue researching broodstock composition and mating strategies for conservation programs, focusing on spring Chinook salmon at the Methow Fish Hatchery (Item I-A).* Mackey said this item is ongoing; he will provide a presentation to the HCP-HCs in an upcoming meeting.
- *Mike Tonseth will coordinate with Andrew Murdoch (Washington Department of Fish and Wildlife [WDFW]) to present pre-spawn mortality modeling results for spring Chinook salmon at an upcoming HCP-HC meeting (Item I-A).* Tonseth said this item is ongoing pending information that will refine the analysis.

- *Catherine Willard will update the genetics section of the Monitoring and Evaluation (M&E) Plan for PUD Hatchery Programs (Update to the 2017 Plan) based on the genetics panel recommendations and will append the recommendations from the panel to the plan (Item I-A).*
Willard said this item is ongoing.
- *Kirk Truscott will discuss with Colville Confederated Tribes (CCT) biologists whether elemental signature analysis could differentiate natural-origin Okanogan spring Chinook salmon from other natural-origin Chinook salmon during broodstock collection at Wells Dam for Methow FH programs (Item I-A).*
Truscott said this item is ongoing.
- *Brett Farman will discuss with Charlene Hurst and Mike Tonseth the potential use of a multi-population model for estimating the proportionate natural influence (PNI) for the Nason and Chiwawa spring Chinook salmon programs (Item I-A).*
Farman said this item is ongoing. Farman said the end result would be a higher PNI than the current targets and asked whether this action item is still relevant. Bill Gale said the multi-population model for PNI provides a more accurate estimation of PNI and if this is being used for other stocks it should be used for the Nason and Chiwawa programs. Farman asked if it is relevant to the current program management. Gale said it might be helpful for NMFS to provide their approval of the use of this tool for the future. Farman agreed to retain the action item.
- *Brett Farman will inform the HCP-HCs of the publication date for public review of the Methow River Steelhead Environmental Assessment (Item II-D).*
Farman said this item is complete; Larissa Rohrbach forwarded the link to the published plans following the meeting on April 17, 2019.
- *Brett Farman will inform the HCP-HCs on the publication date for public review of the Section 10 permits for the unlisted Chinook salmon bundle (Item II-D). (Note: Larissa Rohrbach distributed an email from Farman and draft permits for the Section 10 programs to the HCP-HCs and PRCC HSC on March 28, 2019.)*
Brett Farman said this item is complete.
- *Mike Tonseth will ask Michael Humling (U.S. Fish and Wildlife Service [USFWS]) and Charlie Snow (WDFW) to estimate the number of Methow returns that are likely to return to Methow Hatchery and Winthrop National Fish Hatchery (WNFH) to inform a translocation discussion during the April 17, 2019 HCP-HCs meeting (Item I-C).*
Tonseth and Bill Gale said this item is ongoing.
- *Mike Tonseth will revise and redistribute the 2017 Out-planting Surplus Methow Composite Spring Chinook Salmon Adults memorandum for review and discussion during the April 17, 2019 HCP-HCs meeting. (Item II-C)*
This item will be discussed in today's meeting. Tonseth said a revised version will be distributed in the coming weeks.

- *Mike Tonseth will confirm with Andrew Murdoch that Wenatchee Spring Chinook DNA sampling of the 2018 to 2023 returns is still consistent with the original Relative Reproductive Success (RSS) Study extension agreement and provide an update to the extension. (Item I-A).*
Tonseth said this item is ongoing.
- *Mike Tonseth will convene a Joint Fisheries Parties meeting to discuss marking to identify hatchery x hatchery returns from fish used to backfill the Nason and Chiwawa conservation programs (Item II-A).*
Tonseth said a meeting of the Joint Fisheries Parties (JFP) was held on April 15, 2019, and this item is complete.
- *Larissa Rohrbach will add sizing of upper Columbia River conservation programs as a periodic agenda item (Item I-A).*
Tracy Hillman said this item is ongoing.
- *Tracy Hillman and Larissa Rohrbach will maintain the following list of outstanding topics for consideration in HCP-HCs and PRCC HSC meetings prior to development of the 2020 Broodstock Collection Protocols (Protocols) (Item I-A).*
 - *Use of age-3 males in broodstock*
 - *Use of alternative, non-random mating strategies*
 - *Establishing ranges around broodstock collection targets*
 - *Source for Chiwawa spring Chinook salmon broodstock*Hillman said this item is ongoing. Greg Mackey said he will present on use of age-3 males in broodstock at an upcoming meeting.
- *Tracy Hillman and Larissa Rohrbach will help the HCP-HCs and PRCC HSC identify co-authors and opportunities to make revisions to the Protocols in advance of 2020 deadlines (Item I-A).*
This item will be discussed in today's meeting.
- *Greg Mackey will send suggested language on broodstock protocols for the Douglas PUD coho salmon program to Keely Murdoch and Cory Kamphaus (Yakama Nation [YN]) for approval and to Mike Tonseth for inclusion into the 2019 Protocols by end of day March 20, 2019 (Item I-A). (Note: language was incorporated into the 2019 Protocols that were distributed by Larissa Rohrbach on March 21, 2019.)*
Tracy Hillman said this item is complete.
- *Mike Tonseth will email a final draft of the 2019 Protocols to Larissa Rohrbach for distribution to the HCP-HCs and PRCC HSC by end of day March 21, 2019 (Item I-A) (Note: the 2019 Protocols were distributed by Rohrbach via email on March 21, 2019.)*
Tracy Hillman said this item is complete.
- *HCP-HCs and PRCC HSC representatives or alternates will vote by email whether to approve the 2019 Protocols by end of day March 22, 2019 (Item I-A). (Note: the 2019 Protocols were*

approved by the Wells, Rock Island, and Rocky Reach HCs and the PRCC HSC Parties by email on March 22, 2019.)

Tracy Hillman said this item is complete.

Wells Hatchery Committee

- *Greg Mackey will provide a revised version of Douglas PUD's draft 2019 M&E Implementation Plan for HCP-HC approval by email (Item I-A).*

Mackey said this item is ongoing.

Rock Island and Rocky Reach HCP Hatchery Committee

- *Mike Tonseth will email the Hatchery and Genetic Management Plans (HGMPs), biological opinions (BiOps), and permits that give direction on marking spring Chinook salmon in the Chiwawa and Nason conservation and safety-net programs to Larissa Rohrbach for distribution to the HCP-HCs and PRCC HSC and filing on the Extranet site (Item II-A). (Note: Relevant documents were distributed and filed by Rohrbach on March 21, 2019).*

Tracy Hillman said this item is complete.

- *Mike Tonseth will confirm the timeline for tagging juvenile Chiwawa spring Chinook salmon in 2019 (Item II-A).*

Tonseth said this was discussed in the JFP meeting; tagging will occur the week of May 6, 2019.

- *Brett Farman will ask Amilee Wilson and Craig Busack (National Marine Fisheries Service [NMFS]) to clarify the intent of the direction provided in NMFS BiOps for marking Chiwawa and Nason conservation program juvenile spring Chinook salmon (Item II-A).*

Farman said this item is ongoing. This item will be discussed in today's meeting.

PRCC Hatchery Subcommittee

- *Tracy Hillman will ask the PRCC to provide specific instructions in writing regarding what they want the PRCC HSC to do with the White River spring Chinook salmon hatchery memorandum (Item V-C). (Note: Hillman sent an email to the PRCC Chair regarding this topic.)*

Hillman said this item is complete. Hillman confirmed that the PRCC Facilitator has shared this information with the PRCC.

- *PRCC HSC representatives will submit a list of minimum data or information needs for making a decision on the White River spring Chinook salmon hatchery program to Tracy Hillman (Item V-C).*

Hillman said this item is ongoing.

II. Joint HCP-HCs and PRCC HSC

A. DECISION: Tagging Chiwawa/Nason Conservation Program Spring Chinook Salmon

Mike Tonseth said the Joint Fisheries Parties (JFP) met on Monday, April 15, 2019. He said that the issues that the JFP deals with include making sure programs are consistent with permit terms and conditions, US v Oregon, and management plans.¹ The JFP came up with an interim fish marking solution that balances the programmatic needs to incorporate the offspring of HxH crosses into the conservation program (to meet program target numbers). The solution is to add a secondary tag that differentiates the offspring of HxH crosses (HxH fish) from offspring of WxW crosses (WxW fish).

The JFP agreed that the HxH fish used to satisfy the shortfall in the number of conservation program fish will be tagged with coded wire tags (CWT) in the snout, blank wire tags (BWT) in the caudal peduncle, and will be ad-present (adipose fin unclipped); HxH fish snout wire CWT will have a different code than the WxW fish. Tonseth said the JFP recognizes this is not a preferable approach given the potential for injuries in the dorsal spine when injecting the caudal tag. Tonseth said all other HxH fish will be ad-clipped (adipose fin absent).

The proposed tagging scheme for all components of the Nason and Chiwawa conservation and safety-net programs was written on the white-board, summarized in the following table:

Number	Program	Origin	Adipose Mark	Snout Mark	Body Mark
144,000	Chiwawa Conservation	WxW	Ad +	CWT	None
		HxH	Ad +	CWT	Caudal BWT
123,000	Nason Conservation	WxW	Ad +	None	Dorsal CWT ^a
		HxH	Ad +	CWT	Caudal BWT
98,000	Nason Safety-Net	HxH	Ad -	CWT	None

Note:

- a. Prior to 2016, Nason Conservation Program WxW fish were marked with a snout CWT and a caudal CWT

¹ Conditions include those stipulated under NMFS Biological Opinion Consultation number NWR-2013-9707 issued July 3, 2013, and reinitiated May 29, 2015; NMFS Permit numbers 18118 and 18121 issued July 3, 2013, and amended May 29, 2015; and the following Hatchery and Genetic Management Plans:

- Chelan County Public Utility District No. 1 and Washington Department of Fish and Wildlife (WDFW), 2009. *Hatchery and Genetic Management Plan (HGMP) Wenatchee Upper Columbia River Spring Chinook: Chiwawa Spring Chinook*. October 14, 2009.
- Colville Confederated Tribes, National Marine Fisheries Service, U.S. Fish and Wildlife Service (USFWS), WDFW, and Yakama Nation, 2010. *Wenatchee Basin Spring Chinook Management Plan*. November 4, 2010.
- Public Utility District No 2 of Grant County (Grant PUD), WDFW, and Yakama Nation, 2009. *Hatchery and Genetic Management Plan (HGMP) Upper Columbia River Spring-Run Chinook Salmon – Nason Creek Supplementation Program*. September 15, 2009.
- Grant County PUD, WDFW, USFWS, and Yakama Nation, 2009. *Hatchery and Genetic Management Plan (HGMP) Upper Columbia River Spring-Run Chinook Salmon – White River Supplementation Program*. September 15, 2009.

Tonseth said this will allow the programs to prioritize WxW fish for spawning ground and safety-net programs. Keely Murdoch said this is the most parsimonious solution.

Catherine Willard asked if monitoring technicians will be able to tell the difference between the caudal and dorsal tags when handling adult fish? Tonseth said yes, in an adult fish the tags are far enough apart. Tonseth said the most important thing is to bring the snout CWTs back from carcass surveys to identify the differential codes and program. He said it can be noted in the field whether a fish is ad-clipped or ad-present, then whether it has a wire tag. Tonseth said when identifying adults during surveys there will be some overlap between Chiwawa program HxH fish and Nason program HxH fish, because they will both be marked ad-present and with caudal BWTs, but they will be differentiated by the snout codes. Murdoch said it will be helpful to note dorsal versus caudal tags when handling fish or carcasses during the spawning season.

Murdoch said there may be different ways of tagging in the caudal region that can minimize injuries. Tonseth intends to discuss tag placement with Chuck Aldrich (WDFW) to ensure techniques minimize injury to juveniles.

Peter Graf asked Tonseth to clarify if and how the JFP considered the guidance provided in the various permitting and management documents. Graf said the proposed tagging scheme seems inconsistent with the BiOp. Tonseth said there was not a safety-net program considered for the Nason program in the BiOp. Tonseth said another conflict was deference to the HGMPs and Spring Chinook Salmon Management Plan; he said the Management Plan has much more detail. Murdoch noted that the section where marking direction was given in the BiOp was in the proposed program, not in the terms and conditions section. Tonseth and Murdoch noted that the Spring Chinook Salmon Management Plan was cited as an addendum to the permits.

Bill Gale said a minimum number of Leavenworth Hatchery fish are tagged with CWTs to make escapement calculations (approximately 200,000 fish or 17% of the program). Todd Pearsons asked what the risk would be of picking up Leavenworth program adult fish (strays) at Tumwater Dam and mistaking them for Chiwawa or Nason fish (they could be confused with Nason safety-net fish during handling). Gale said less than 3% of the adult return of the 200,000 CWT tagged fish are observed going over Tumwater Dam. Matt Cooper said very few strays are observed on the spawning grounds. Gale said an analysis was done for the HGMP if people would like to see more detail. Pearsons said if a Nason fish loses its CWT, it would likely be removed at Tumwater Dam because it would be assumed to be a Leavenworth stray. Gale said that an ad-present fish without CWT observed at Tumwater Dam is more likely a Nason program fish that has shed its tag than a Leavenworth stray.

Pearsons said one topic he wrestles with is whether the work done to keep these populations separate will be a positive, or if the added handling will counteract the positive aspects. Murdoch

said the scanning and handling would be the same (as with previous tagging schemes); for the conservation program fish the tag is in a different location (depending on origin; caudal versus dorsal body tag).

Graf said he has a broader question on the Nason program: if adult management is done for escapement goals that prioritize wild fish, then WxW fish, and then HxH fish, why is a separate designation needed for safety-net fish?

Murdoch said the main difference is the safety-net fish are ad-clipped and subject to the fishery. Graf asked if the concern is that not enough may make it back in low return years. Murdoch said yes, we are in the middle of considering reducing program sizes and Committee representatives will need to consider and agree to the direct use of safety-net fish in the conservation programs. Murdoch said the safety-net program also has a hierarchy for broodstock selection—the first choice is hatchery-origin conservation program fish (identified by snout CWT and caudal CWT) and then safety-net fish.

Pearsons asked if there was discussion in the Nason program about whether to blend the groups rather than segregate them by marking. That is, is it better to separate WxW fish from HxH fish, or better biologically to mix the progeny among the conservation program and safety-net program and go forward with the same total number of fish? Graf said this could be done by using wild females for both programs. Tonseth said no, this was not considered for the 2018 brood due to the expediency of the issue with the brood on hand. Gale noted sometimes these decisions are made on the spawning day; the priority should be that all wild fish are spawned no matter the sex or sex ratio on hand on a given spawning day. Gale said a fish with a wild parent should just be tagged as wild for simplifying spawning work in the hatchery. Gale said the goal should be to make as many wild crosses as possible. Tonseth said this conversation can be had in coming months as spawning does not occur until August. Tonseth agreed the WxW pairings should be prioritized but would want to review the permits, HGMPs, and Spring Chinook Management Plan again in case there is not continuity between documents.

Hillman asked whether the HCP-HCs and PRCC HSC are ready to vote on the proposed marking scheme. Pearsons said Grant PUD is not ready to vote. Tonseth said this marking scheme only affects the brood year 2018 Chiwawa conservation program (permit held by Chelan PUD only) since the Nason program has enough WxW to meet brood year 2018 conservation program targets, but this problem may occur for brood year 2019 for the Nason program. Tonseth said Chiwawa fish will be marked May 1, 2019. Gale said he would prefer to allow all members the time to review and vote by email for both brood years. Tonseth said this cannot wait for a vote to prepare for marking the Chiwawa program this year and requested that a vote be made as soon as possible.

Pearsons said Grant PUD wants more information before locking into a long-term approach to determine how frequently a caudal peduncle CWT could be necessary for marking HxH fish, because the success depends heavily on marking techniques. Gale said this scheme only locks the program into marking HxH fish and WxH would be marked as wild fish. Murdoch said the YN coho salmon program has used this caudal peduncle tagging technique without any injury.

Hillman called for a vote by the Rock Island HC on the proposed marking scheme for Chiwawa program brood year 2018 fish and brood year 2019 fish, and the Nason program brood year 2019 fish. Hillman said today's votes are contingent on Grant PUD's vote, which they will submit by end of day Tuesday. The marking scheme was approved in the meeting by Chelan PUD, YN, USFWS, CCT, WDFW, and NMFS. Grant PUD will provide a vote on the marking scheme for Nason program brood year 2019 fish by end of day Tuesday, April 23, 2019.

B. Broodstock Collection Protocols Development Timeline

Tracy Hillman introduced the topic of discussion and said the issue is that Mike Tonseth does most of the work that work could be more evenly shared among Representatives, and the existing drafting schedule does not provide enough time to discuss topics that may require more extensive discussion in the Committees. One option is for the permit holders to start developing the broodstock collection protocols (Protocols) in November. Run projections would not yet be available; however, many topics could be initiated earlier.

Todd Pearsons suggested going forward with the previous year's protocols as the default condition and it would be the responsibility of members to bring up potential changes and major issues early enough to start discussions ahead of drafting the actual protocols. Pearsons said there are a number of items that could be discussed before November without the need for run predictions. Pearsons said a topic that has major implications for a given program would be sponsored by a member and discussed within the Committees.

Bill Gale said the Protocols is the wrong vehicle for making some of the changes that have been proposed in draft Protocols. Some changes should not be viewed as a change to the Protocols but a change to a program that gets recorded in an SOA. Gale suggested having a discussion about what types of changes are appropriate for the Protocols and what are not, and said that marking and program size, for instance, are not an issue to bring forth in the Protocols. Greg Mackey agreed with both Pearsons' and Gale's points. Pearsons said the Protocols should not be the decision-making document. Gale said it is unfair for the responsibility of decisions to fall to Tonseth as he drafts the Protocols. Keely Murdoch agreed to the points raised, but also noted that developing the Protocols does act as a catalyst for raising issues to be discussed.

Hillman suggested revisiting the protocol earlier, in October or November, to determine whether there are unresolved issues. He also suggested discussion of a demarcation that would guide what should be raised to the level of an SOA. Mackey said if it's a deviation from the BiOp or permit that controls the program, an SOA is the vehicle for formal agreement. Mackey said there would be some judgement call on the level of importance (of a topic to require an SOA). Pearsons said with regards to an SOA, it seems that different Members or Committees have different sensitivities to what should be elevated to the level of an SOA and should be handled on a case-by-case basis. Catherine Willard agreed.

Gale said the Protocols should be viewed as a document that is a convenient source for annual broodstock collection, trapping, and geneflow management information, and useful as a living document. Gale said there should be separation of the information that could change annually.

Mackey said in the old Section 10 permits, it actually stated that WDFW should develop the Protocols annually. Mackey said the new approach to permitting is to state that the permit-holders (WDFW and PUDs) would produce the Protocols.

Hillman said the HCP-HCs and PRCC HSC will start in September and October to identify changes needed in the Protocols and by whom. Hillman said all topics should be discussed, then the Committees can decide which ones are topics that deserve further discussion and/or SOAs.

Larissa Rohrbach agreed to add review of the Protocols to the September agenda. Rohrbach also agreed to distribute the SOA on the Protocols drafting timeline² to the HCs and HSC to consider whether this SOA is acceptable to all committees. Committee members agreed to provide revisions to the Protocols drafting timeline SOA back to Tonseth for discussion during the June HCP-HC and PRCC HSC meeting.

C. Out-Planting Surplus Adult Methow Spring Chinook Salmon

Mike Tonseth said the 2017 *Out-Planting Surplus Methow Composite Spring Chinook Salmon Adults*³ memorandum will be updated with details in the coming weeks but that returns are looking extremely low for 2019, so this may not be implemented this year.

² Habitat Conservation Plan Hatchery Committees and Coordinating Committees, 2014. *Final Statement of Agreement Annual Broodstock Collection Protocols*. October 28, 2014.

³ Chelan PUD, 2017. *Out-planting Surplus Methow Composite Spring Chinook Salmon Adults*. Prepared for the HCP Hatchery Committee. April 19, 2017.

D. NMFS Consultation Update

Brett Farman said the Methow Steelhead EA is out for public comment.⁴ Farman said for the WNFH program EA, they are waiting for internal NMFS review before it can go out for comment, which is no change to the status from the last meeting.

Tracy Hillman asked how long the public comment period is. Farman said 30 days. Emi Kondo (NMFS) said the comment period closes May 2, 2019. Kondo said one general comment was received so far. Hillman and Catherine Willard asked what the comment was. Kondo said it's from a group that has submitted a generic paragraph about how hatchery fish are impacting other animals, but it is not well supported and will be noted for the record.

Farman said the Methow Steelhead EA and all summer Chinook salmon program HGMPs are out for public comment.⁵ Once the comment period closes the decisions can be made and determination letters and permits finalized. Farman said Kondo has received requests to extend the permit review period—she has asked that everyone return comments as soon as possible. Kondo will attend the next meeting to discuss and resolve any comments.

Bill Gale said he has not seen language about the 4d determination. Kondo said she will follow up with Charlene Hurst to obtain the status of the 4d determination. Kondo said the 4d determination is less prescriptive so it may be that there would not be any additional terms and conditions added to those in the BiOp. Farman said Hurst is in the process of drafting the 4d determinations following the process for Evaluation and Recommend Determinations (ERD). Farman said he will also attend the May meeting.

Kirk Truscott said when he reviewed the unlisted Chinook salmon bundle, he found a typo—in the Douglas WDFW permit there was a reference to Grant PUD. Kondo said she will make note. Greg Mackey said Douglas PUD has flagged it and will send it in their responses to Kondo.

E. Streamlining HCP-HCs and PRCC HSC Meetings

Tracy Hillman reminded the committees that the protocols have been revised to streamline the HCP-HCs and PRCC HSC processes and materials.

Todd Pearsons asked if the conflict of interest SOA has been revised. Hillman noted that members discussed the idea of reducing and simplifying the SOA, but at this time the SOA has not been revised. Hillman noted it would be helpful to agree to the distribution method and lists.

⁴ NOAA Fisheries public comment website: https://www.westcoast.fisheries.noaa.gov/hatcheries/UCRHatcheries_fall_summer-stlhd/UCR_smr-fall_hatch_rvw.html.

⁵ NOAA Fisheries public comment website: https://www.westcoast.fisheries.noaa.gov/hatcheries/UCRHatcheries_fall_summer-stlhd/UCR_smr-fall_hatch_rvw.html.

Mike Tonseth supports the method of sending draft materials to primary representatives and alternates. Bill Gale agreed as long as USFWS can add a small set of specific people to the “primary” list. These people need to be on the primary list because they work on draft materials. Pearsons suggested developing a primary list that consists of representatives, alternates, and active participants, who receive all draft and final materials. Members suggested the primary distribution list include the addition of Betsy Bamberger, Shane Bickford, Deanne Pavlik-Kunkel, Pat Wyena (Wanapum Tribe), Charlie Snow, McClain Johnson, Michael Humling, and Cory Kamphaus. Hillman noted that the addition of Pavlik-Kunkel and Wyena would require approval by the HCP-CC.

Hillman said he will inform John Ferguson and Kristi Geris (facilitator and support staff for the HCP-CC, respectively) of the plan to develop a primary distribution list for distributing draft materials, and to add select participants to the primary distribution list, and a broader/secondary list for distributing only final versions of materials. Once the distribution lists are approved by the HCP-HCs and PRCC HSC, one of the representatives to the HCP-CC will advance the list to the HCP-CC for their approval.

Pearsons said Grant PUD has reservations about most of the issues discussed in the existing HCP-HC Conflict of Interest SOA that involve contracting, which should be discussed outside the PRCC HSC. Grant PUD is generally in favor of having a Conflict of Interest SOA, with revisions.

Larissa Rohrbach will re-distribute a revised Conflict of Interest SOA, meeting protocols, and updated distribution list for HC for approval in the May 2019 HCP-HCs and PRCC HSC meeting.

III. PRCC HSC

A. Approve the March 11 and March 20, 2019 Meeting Minutes, Committee Updates, and Meeting Summary Review (Todd Pearsons)

The PRCC HSC representatives approved the draft March 11 conference call and March 20, 2019 meeting minutes as revised.

B. **DECISION: Approve the 2019 Priest Rapids Hatchery M&E Implementation Plan**

Todd Pearsons said no comments or revisions were received on the Draft 2019 Priest Rapids Hatchery M&E Implementation Plan. Tracy Hillman called for a vote to approve the Draft 2019 Priest Rapids Hatchery M&E Implementation Plan. All Parties of the PRCC HSC approved the Draft 2019 Priest Rapids Hatchery M&E Implementation Plan.

Grant PUD will finalize and Larissa Rohrbach will distribute the Draft 2019 Priest Rapids Hatchery M&E Implementation Plan to the PRCC HSC.

C. White River Memorandum Progress Update

Tracy Hillman said he asked for more direction from the PRCC on the development of the memorandum on the future of the White River Spring Chinook Salmon program. Hillman said Denny Rohr (PRCC facilitator) will have feedback for the PRCC HSC. Keely Murdoch said in the PRCC meeting, little progress was made in discussion because there was confusion about the status of the memo and program. Murdoch said some representatives thought there was agreement on developing a small technical group to issue a request for proposals. Murdoch said that Rohr requested more time to review past meeting summaries to understand the status of the memo and report back to the HSC. Bill Gale asked whether the plan is to discuss the topic further in the PRCC; Murdoch said yes but an agenda hasn't been issued for the next meeting. Murdoch said there was consensus agreement to extend the timeline to allow Craig Busack (NMFS) to participate.

Hillman noted this topic will remain ongoing.

IV. Administration

A. Next Meetings

The next HCP-HCs and PRCC HSC meetings are on May 15, 2019, at Grant PUD; June 19, 2019, at Grant PUD; and July 17, 2019 (TBD).

V. List of Attachments

Attachment A List of Attendees

Attachment A
List of Attendees

Name	Organization
Tracy Hillman	BioAnalysts, Inc.
Larissa Rohrbach	Anchor QEA, LLC
Catherine Willard*	Chelan PUD
Kirk Truscott*‡	Colville Confederated Tribes
Tom Kahler*	Douglas PUD
Greg Mackey*	Douglas PUD
Peter Graf‡	Grant PUD
Deanne Pavlik-Kunkel	Grant PUD
Todd Pearsons‡	Grant PUD
Brett Farman*‡°	National Marine Fisheries Service
Emi Kondo°	National Marine Fisheries Service
Matt Cooper*‡	U.S. Fish and Wildlife Service
Bill Gale*‡	U.S. Fish and Wildlife Service
Alf Haukenes	Washington Department of Fish and Wildlife
Mike Tonseth*‡	Washington Department of Fish and Wildlife
Pat Wyena°	Wanapum Tribe
Keely Murdoch*‡	Yakama Nation

Notes:

* Denotes HCP-HC member or alternate

‡ Denotes PRCC HSC member or alternate

° Joined by phone