

## Memorandum

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To: Wells, Rocky Reach, and Rock Island HCP  
Coordinating Committees

Date: April 27, 2021

From: John Ferguson, HCP Coordinating Committees Chairman

cc: Kristi Geris, HCP Coordinating Committees Support

Re: **Final Minutes of the March 23, 2021, HCP Coordinating Committees Conference Call**

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The Wells, Rocky Reach, and Rock Island Hydroelectric Projects Habitat Conservation Plan (HCP) Coordinating Committees met by conference call on Tuesday, March 23, 2021, from 9:00 a.m. to 11:30 a.m. Attendees are listed in Attachment A to these conference call minutes.

### Action Item Summary

- The Colville Confederated Tribes (CCT) will contact Chelan PUD to discuss possible edits to the 2020 Rock Island HCP Annual Report and 2020 Rocky Reach HCP Annual Report to more clearly show that Chief Joseph Hatchery production met No Net Impact (NNI) obligations, and Anchor QEA, LLC, will communicate to the HCP Coordinating Committees edits made to the reports, if any (Item I-A). *(Note: This coordination occurred, and Chelan PUD provided a revised Table 5 for inclusion in both reports, which Kristi Geris distributed to the HCP Coordinating Committees on March 25, 2021.)*
- Chelan PUD will continue providing Rocky Reach Dam and Rock Island Dam turbine unit maintenance updates as information becomes available (Item I-C).
- Chelan PUD will provide the repair schedule for the crack at spillway pier 1 at Rock Island Dam when the schedule is available (Item I-C).
- The HCP Coordinating Committees meeting on April 27, 2021, will be held at 9:00 a.m., by conference call (Item VI-C).

### Decision Summary

- The 2020 Rock Island HCP Annual Report and 2020 Rocky Reach HCP Annual Report were approved by the Rock Island and Rocky Reach HCP Coordinating Committees on March 18, 2021, after no disapprovals were received prior to the 30-day review period deadline.
- Rock Island HCP Coordinating Committee representatives present approved the Statement of Agreement (SOA), *Approval of the 2021 Study Plan, Statistical Plan, and Tagging and Husbandry QAQC Plan for the 2021 Rock Island Yearling Chinook Confirmation Survival Study*, as revised (Item III-A). *(Note: National Marine Fisheries Service (NMFS) approved this SOA via email prior to the HCP Coordinating Committee conference call on March 23, 2021.)*

- Rock Island and Rocky Reach HCP Coordinating Committees representatives present approved the: 1) *Northern Pikeminnow Predator Control Program Rocky Reach and Rock Island Hydroelectric Projects Draft Summary Report 2019* (Chelan PUD 2019 Northern Pikeminnow Annual Report); and 2) *Northern Pikeminnow Predator Control Program Rocky Reach and Rock Island Hydroelectric Projects Draft Summary Report 2020* (Chelan PUD 2020 Northern Pikeminnow Annual Report) (Item III-B). (Note: NMFS approved these reports via email prior to the HCP Coordinating Committee conference call on March 23, 2021.)
- Rock Island and Rocky Reach HCP Coordinating Committees representatives present approved the: 1) *2020 Rock Island Dam Smolt Monitoring Program and Gas Bubble Trauma Evaluation Draft Report* (2020 Rock Island Smolt and Gas Bubble Trauma Evaluation Report); 2) *2020 Biological Evaluation of the Rocky Reach Juvenile Fish Bypass System Draft Report* (2020 Rocky Reach Juvenile Fish Bypass System Report); 3) *Rock Island Dam Smolt Monitoring and Gas Bubble Trauma Evaluation Plan 2021* (2021 Rock Island Bypass Monitoring Plan); and 4) *2021 Rocky Reach Juvenile Fish Bypass System Operations Plan* (Item III-C). (Note: NMFS approved these documents via email prior to the HCP Coordinating Committee conference call on March 23, 2021.)
- Rock Island and Rocky Reach HCP Coordinating Committees representatives present approved the *2021 Fish Spill Plan, Rock Island and Rocky Reach Dams Public Utility District No. 1 of Chelan County* (2021 Rock Island and Rocky Reach Fish Spill Plan) (Item III-D). (Note: NMFS approved this plan via email prior to the HCP Coordinating Committee conference call on March 23, 2021.)
- Wells HCP Coordinating Committee representatives present approved the: 1) *2018 Public Utility District No. 1 of Douglas County Northern Pikeminnow Removal and Research Program* (Douglas PUD 2018 Northern Pikeminnow Annual Report); and 2) *2019 Public Utility District No. 1 of Douglas County Northern Pikeminnow Removal and Research Program* (Douglas PUD 2019 Northern Pikeminnow Annual Report) (Item IV-A). (Note: NMFS approved these reports via email prior to the HCP Coordinating Committee conference call on March 23, 2021.)
- Wells HCP Coordinating Committee representatives present approved the *HCP HCs and PRCC HSC-Approved Upper Columbia River 2021 BY Salmon and 2022 BY Steelhead Hatchery Program Management Plan and Associated Protocols for Broodstock Collection, Rearing/Release, and Management of Adult Returns* (2021 Broodstock Collection Protocols) (Item IV-B). (Note: NMFS approved this document via email prior to the HCP Coordinating Committee conference call on March 23, 2021.)

## Agreements

- Wells HCP Coordinating Committee representatives present agreed to decline a second review of a Wells Project Land-Use Permit Application submitted by a new landowner for a previously permitted activity<sup>1</sup> that had never been implemented, because there is no change in proposed activities, just a change in land ownership (Item IV-E).
- Wells HCP Coordinating Committee representatives present agreed to decline review of Wells Project Land-Use Permit Applications submitted by new landowners of previously permitted land use when there is no change in land use, just a change in land ownership; but requested to be notified when such changes in the permit holder occur for their records (Item IV-E).
- HCP Coordinating Committee representatives present agreed to the proposed modifications to the timing of review and approval of HCP documents (Item V-B).

## Review Items

- The Fish Passage Center memorandum *Eliminating Rock Island from the Regional Smolt Monitoring Program* was distributed to the HCP Coordinating Committees by Kristi Geris on February 23, 2021. Chelan PUD will further discuss this memorandum during the HCP Coordinating Committees conference call on June 22, 2021.
- A Wells Project Land-Use Permit Application for LUP 32-02 was distributed to the HCP Coordinating Committees by Kristi Geris on March 31, 2021. Douglas PUD will further discuss this application during the HCP Coordinating Committees conference call on April 27, 2021.
- The Fish Passage Center memorandum *Monitoring Avian Predation for the Upper Columbia River – An alternative to marking fish at Rock Island Dam* was distributed to the HCP Coordinating Committees by Kristi Geris on April 5, 2021. Chelan PUD will further discuss this memorandum during the HCP Coordinating Committees conference call on June 22, 2021.
- A Wells Project Land-Use Permit Application for LUP 342-03 was distributed to the HCP Coordinating Committees by Kristi Geris on April 6, 2021. Douglas PUD will further discuss this application during the HCP Coordinating Committees conference call on April 27, 2021.
- A Wells Project Land-Use Permit Application for LUP 311A-03 was distributed to the HCP Coordinating Committees by Kristi Geris on April 9, 2021. Douglas PUD will further discuss this application during the HCP Coordinating Committees conference call on April 27, 2021.

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<sup>1</sup> Wells Project Land-use Permit Application titled, *Small Block LLC*, distributed to the HCP Coordinating Committees by Kristi Geris on April 17, 2017, and approved by the Wells HCP Coordinating Committee on June 16, 2017, after no disapprovals were received prior to the 60-day review period deadline.

- A Wells Project Land-Use Permit Application for LUP 788-03 was distributed to the HCP Coordinating Committees by Kristi Geris on April 21, 2021. Douglas PUD will further discuss this application during the HCP Coordinating Committees conference call on April 27, 2021.
- A Wells Project Land-Use Permit Application for LUP 312B-04 was distributed to the HCP Coordinating Committees by Kristi Geris on April 21, 2021. Douglas PUD will further discuss this application during the HCP Coordinating Committees conference call on April 27, 2021.

## Finalized Documents

- The final 2020 Wells HCP Annual Report, as approved by the Wells HCP Coordinating Committee on March 5, 2021, was distributed to the HCP Coordinating Committees by Kristi Geris on March 25, 2021.
- The final SOA, *Approval of the 2021 Study Plan, Statistical Plan, and Tagging and Husbandry QA/QC Plan for the 2021 Rock Island Yearling Chinook Confirmation Survival Study*, was distributed to the HCP Coordinating Committees by Kristi Geris on March 28, 2021 (Item III-A).
- The final *Study Plan to Measure Yearling Chinook Survival through the Rock Island Hydroelectric Project in 2021 (2021 Rock Island Dam Survival Confirmation Study Plan)*, *Statistical Plan for the 2021 Yearling Chinook Salmon Survival Study at Rock Island Dam (Statistical Plan)*, and *Chelan PUD Tagging and Fish Husbandry QA/QC Plan (Tagging and Fish Husbandry QA/QC Plan)* were distributed to the HCP Coordinating Committees by Kristi Geris on March 28, 2021 (Item III-A).
- The final 2021 Rock Island and Rocky Reach Fish Spill Plan was distributed to the HCP Coordinating Committees by Kristi Geris on March 28, 2021 (Item III-D).
- The final 2020 Rock Island HCP Annual Report and 2020 Rocky Reach HCP Annual Report, as approved by the Rock Island and Rocky Reach HCP Coordinating Committee on March 18, 2021, was distributed to the HCP Coordinating Committees by Kristi Geris on April 9, 2021.
- The final 2021 Broodstock Collection Protocols were distributed to the HCP Coordinating Committees by Kristi Geris on April 13, 2021 (Item IV-B).

## I. Welcome

### A. Review Agenda (John Ferguson)

John Ferguson welcomed the HCP Coordinating Committees and reviewed the agenda. Ferguson asked for any additions or changes to the agenda. Tom Kahler added Land-Use Permit Application and Review Process.

Kirk Truscott said he has a question about the HCP annual reports. He understands the review periods for all three reports have passed, but he is concerned that the hatchery production tables to

meet NNI objectives suggest that Chief Joseph Hatchery release numbers did not meet NNI objectives in 2020. For example, the combined Chelan PUD, Douglas PUD, and Grant PUD NNI obligation for Chief Joseph Hatchery is 94%, but the sum of the release numbers included in the three PUDs' annual reports suggest that Chief Joseph Hatchery did not produce enough fish, which is not the case. He said perhaps the best plan is for him to contact each PUD to discuss the best way to characterize hatchery production in these reports. Ferguson said the 2020 Wells HCP Annual Report is now final and with Douglas PUD, and it must be submitted to the Federal Energy Regulatory Commission (FERC) by March 31, 2021. The 2020 Rock Island HCP Annual Report and 2020 Rocky Reach HCP Annual Report are almost finalized. These are with Anchor QEA, are due back to Chelan PUD by April 6, 2021, and must be submitted to FERC by April 15, 2021. Kahler said the 2020 Wells HCP Annual Report indicates that NNI was achieved for Chief Joseph Hatchery and states the percent funded; there is nothing stated about release numbers. Truscott said he thinks this language should be okay. He also understands that these reports are under separate HCPs and agreements, but he hopes that moving forward, the PUDs will consider using a consistent format when reporting artificial propagation associated to NNI programs. He wants to avoid the perception that Chief Joseph Hatchery is not producing NNI requirements. He suggested, in the interest of today's full agenda, that he contact the PUDs offline to further discuss this topic. Ferguson summarized that the CCT are okay with the 2020 Wells HCP Annual Report, as written, but will contact Chelan PUD to discuss possible edits to the 2020 Rock Island HCP Annual Report and 2020 Rocky Reach HCP Annual Report to more clearly show that Chief Joseph Hatchery production met NNI obligations. Lance Keller noted that Catherine Willard (Chelan PUD HCP Hatchery Committees Representative) and Scott Hopkins (Chelan PUD HCP Hatchery Committees Alternate) would be the people to contact regarding these tables. Ferguson said Anchor QEA will also communicate to the HCP Coordinating Committees any edits made to the reports. *(Note: This coordination occurred, and Chelan PUD provided a revised Table 5 for inclusion in both reports, which Kristi Geris distributed to the HCP Coordinating Committees on March 25, 2021.)*

## **B. Meeting Minutes Approval (John Ferguson)**

The HCP Coordinating Committees reviewed the revised draft February 23, 2021, conference call minutes. Kristi Geris said all comments and revisions received from members of the Committees were incorporated into the revised minutes. She also noted completion of an action item and added distribution of draft documents under the Review Items. HCP Coordinating Committees members present approved the February 23, 2021, conference call minutes, as revised.

### C. Last Meeting Action Items (John Ferguson)

Action items from the HCP Coordinating Committees meeting on February 23, 2021, and follow-up discussions, were as follows. (Note: *Italicized text corresponds to agenda items from the meeting on February 23, 2021*):

- *Chelan PUD will continue providing Rocky Reach Dam and Rock Island Dam turbine unit maintenance updates as information becomes available (Item I-C).*

This will be discussed during today's conference call and will be carried forward.

- *Chelan PUD and the CCT will further discuss the protocols for selecting study fish for the 2021 Rock Island Dam Survival Confirmation Study, specifically regarding rejecting fish based on fish condition, and will report back to the HCP Coordinating Committees about what was discussed (Item III-B).*

Lance Keller provided graphs summarizing size and condition information regarding yearling Chinook salmon study fish selection to Kristi Geris on March 22, 2021, which Geris distributed to the HCP Coordinating Committees that same day. This will also be further discussed during today's conference call.

- *Chelan PUD will distribute the draft Tagging and Fish Husbandry QA/QC Plan for Rock Island HCP Coordinating Committee review and will include notes about which components of the draft plan are still under internal revision (Item III-B).*

This plan was distributed, as discussed, by Kristi Geris on February 27, 2021.

- *Chelan PUD will review field logs from previous Rock Island Dam Survival Studies to try to determine the number of fish rejected as potential study fish based on fish condition and the criteria used in making these determinations (Item III-B).*

Lance Keller said he reviewed past field logs and did not find much; however, he spoke with past taggers who indicated very few fish, if any, were rejected and most were due to "human error." For example, fish that were not completely anesthetized would move during surgery, so the incision was not executed properly, or the fish would flop off the table. In both cases, these fish were not used in the study. The taggers said rarely, if at all, were fish rejected due to injury or descaling, which can mainly be attributed to fish selection criteria at the Rocky Reach Juvenile Sampling Facility (RRJSF).

- *Chelan PUD will provide the schedule for when power outages for the left fish ladder (5- to 10-minute duration) and center fish ladder (4- to 8-hour duration) at Rock Island Dam will occur to install new power and fiber optic conduit, when the schedules are available, and will provide a summary of the actual power outages once the installation is complete (Item III-I).*

Lance Keller provided this update to Kristi Geris on March 5, 2021, which Geris distributed to the HCP Coordinating Committees that same day. This will be further discussed during today's conference call.

- *Chelan PUD will provide the repair schedule for the crack at spillway pier 1 at Rock Island Dam when the schedule is available (Item III-I).*

Lance Keller said Chelan PUD does not anticipate this repair to impact the 2021 Rock Island Dam Survival Confirmation Study. This action item will be carried forward.

- *Anchor QEA will add discussion of the Fish Passage Center (FPC) memorandum Eliminating Rock Island from the Regional Smolt Monitoring Program to the agenda for the HCP Coordinating Committees conference call on June 22, 2021, and HCP Coordinating Committees representatives will contact Chelan PUD if they would like to discuss the memorandum sooner (Item III-J).*

Kristi Geris added this topic to the HCP Coordinating Committees June 22, 2021, conference call agenda, as discussed.

- *Anchor QEA will coordinate to add Andrew Gingerich (Douglas PUD Natural Resources Supervisor) to the HCP Hatchery Committees email distribution list (Item VI-A).*

Kristi Geris notified Tracy Hillman, Larissa Rohrbach, and Sarah Montgomery to add Gingerich to this list, as discussed.

- *Chelan PUD, Douglas PUD, and Anchor QEA will discuss possible adjustments to the timing of review and approval of HCP documents for implementation in 2022 (Item VI-C).*

This will be discussed during today's conference call.

## II. HCP Hatchery and Tributary Committees Update

### A. HCP Hatchery and Tributary Committees Update (Tracy Hillman)

Tracy Hillman updated the HCP Coordinating Committees on the following actions and discussions that occurred during the HCP Tributary Committees conference call on March 1, 2021. Additionally, the HCP Tributary Committees joined the Upper Columbia Regional Technical Team on March 10 and 11, 2021, to listen to presentations on proposed tributary habitat projects.

- *Sugar Project Discussion:* At the request of the Methow Salmon Recovery Foundation (MSRF), the HCP Tributary Committees evaluated each of the five conceptual designs making up the Sugar Project on the Methow River. The Committees identified which ones they support, and do not support, moving to 30% design. Two of the five conceptual designs were not supported by the Committees (Sugar Levee Site and Twisp Confluence Site). The Committees support moving the other three designs—Sugar Left Site, Washington Department of Fish and Wildlife (WDFW) Adaptive Site, and Eagle Rocks Site—to 30% design. The Committees will continue to be engaged with MSRF on the development of the 30% designs for the three supported projects.
- *Small Projects Application:* The HCP Tributary Committees received a Small Projects Application from the MSRF titled *Methow Thermal Refugia Restoration Assessment*. The

purpose of the project is to identify thermal refugia along approximately 160 miles of stream within the anadromous zone of the Methow Subbasin. This information will be used to develop a catalogue of potential restoration projects located at cold-water sites. The total cost of the project was \$40,466.94. The sponsor requested the full amount from HCP Plan Species Account Funds. The Wells HCP Tributary Committee elected to contribute \$40,466.94 to the project. John Ferguson asked how MSRF plans to conduct the survey. Hillman said forward looking infrared aerial imagery (or FLIR data) will be reviewed followed by field reconnaissance.

- *General Salmon Habitat Program Application:* The HCP Tributary Committees received a General Salmon Habitat Program Application from Cascade Fisheries titled *Derby Creek Habitat and Water Quantity Restoration Project*. The purpose of the project is to increase floodplain connectivity, summer baseflows, instream habitat diversity and complexity, and riparian habitat structure and cover in portions of Derby Creek, a tributary to the Lower Wenatchee River. This will be accomplished by installing 40 beaver dam analogs and 10 post-assisted log structures and planting 0.5 acre of riparian vegetation. The total cost of the project was \$109,788.27. The sponsor requested \$86,138.27 from HCP Plan Species Account Funds. The HCP Tributary Committees declined the opportunity to fund this project because it is out of sequence. The withdrawal of water from Derby Creek for irrigation and other purposes should be one of the first threats addressed in this watershed. In addition, it is unknown if the increase in baseflow generated from the proposed project would remain in the stream or be used to support irrigation or other landowner needs. Currently, portions of the channel are dewatered during most of the summer.
- *Review of HCP Tributary Committees' Policies and Procedures:* The HCP Tributary Committees reviewed and approved the edits made to their Policies and Procedures document. The edits improved clarity, identified the Committees' desire to have project sponsors engage the Committees early in the design of enhancement projects, and clarified the role of Committees' members who participate on design teams.
- *Next Meeting:* The next meeting of the HCP Tributary Committees will be on April 8, 2021.

Hillman updated the HCP Coordinating Committees on the following actions and discussions that occurred during the HCP Hatchery Committees conference call on March 17, 2021 (*Note: Joint HCP Hatchery Committees/PRCC Hatchery Subcommittee items are noted by "Joint," Wells HCP Hatchery Committee items are noted by "Wells," and Rock Island and Rocky Reach HCP Hatchery Committees items are noted by "Rock Island/Rocky Reach"*):

- *Broodstock Collection Protocols (Joint):* The HCP Hatchery Committees reviewed and approved the 2021 Broodstock Collection Protocols, as written. The protocols were submitted to the Wells HCP Coordinating Committee for review and approval.



- *Okanagan Sockeye Reintroduction SOA (Joint)*: Chelan PUD submitted a draft SOA regarding the success of the Okanagan Sockeye Salmon Reintroduction Program for review by the Rock Island and Rocky Reach HCP Hatchery Committees. The Committees will provide comments to Chelan PUD, and a final draft will be submitted for review and approval during the April 21, 2021, meeting.
- *COVID-19 and Monitoring and Evaluation (M&E) Activities (Joint)*: Each member of the HCP Hatchery Committees discussed the effects of coronavirus disease 2019 (COVID-19) on their respective M&E activities. Nothing has changed since last month. Hillman noted that the CCT are vaccinating tribal staff, and he has heard that the PUDs are vaccinating PUD staff.
- *2021 Steelhead Release Plan (Rock Island/Rocky Reach)*: Chelan PUD submitted a draft 2021 Steelhead Release Plan for review by the Rock Island and Rocky Reach HCP Hatchery Committees. The plan describes the release of steelhead acclimated at the Chiwawa Acclimation Facility over the next 3 years. The Committees provided comments on the draft plan. Chelan PUD addressed those comments following the meeting and is asking for approval of the plan before the April 21, 2021, meeting. Hillman said, as of today, all but one member has approved.
- *Winthrop National Fish Hatchery Summer Steelhead Early Maturation Sampling (Wells)*: U.S. Fish and Wildlife Service (USFWS) submitted their plan to evaluate the effects of rearing environment on early maturation in summer steelhead. USFWS intend to lethally sample approximately 300 steelhead per year from the Wells Fish Hatchery and the Winthrop National Fish Hatchery. The study will occur over a 2-year period using juveniles from the 2020 and 2021 brood years. The Wells HCP Hatchery Committee reviewed and approved the plan.
- *Surplus Yearling Summer Chinook Salmon at Wells Fish Hatchery (Wells)*: Douglas PUD reported there are 15,277 surplus yearling summer Chinook salmon on-station at Wells Fish Hatchery. The Joint Fisheries Parties will convene to determine the disposition of the surplus fish. These fish have been tagged with coded-wire-tags, which could affect the destination of these fish.
- *Next Meeting*: The next meeting of the HCP Hatchery Committees will be on April 21, 2021. The Committees will begin discussing recalculation of NNI hatchery production.

### III. Chelan PUD

#### A. DECISION: 2021 Rock Island Confirmation Survival Study SOA (Lance Keller)

Lance Keller said the draft SOA, *Approval of the 2021 Study Plan, Statistical Plan, and Tagging and Husbandry QAQC Plan for the 2021 Rock Island Yearling Chinook Confirmation Survival Study*, was distributed to the HCP Coordinating Committees by Kristi Geris on March 22, 2021. Keller said he hoped to distribute the draft SOA sooner; however, it took time to complete their internal review of

the SOA. The draft SOA summarizes that the Rock Island HCP Coordinating Committee approves the following three documents: 1) 2021 Rock Island Dam Survival Confirmation Study Plan; 2) Statistical Plan; and 3) Tagging and Fish Husbandry QA/QC Plan.

Keller recalled during the last meeting, discussing the Tagging and Fish Husbandry QA/QC Plan and distributing a draft plan, with the caveat that there may be changes to the fish holding methods. Chelan PUD and Blue Leaf ultimately decided to implement a 10-bucket, post-recovery structure. Tagged fish will be placed in this holding structure over the course of the day and, at the end of a tagging session, all fish will be transferred to the post-tagging holding containers. This methodology eliminates the small bias of placing tagged fish in the post-tag holding containers one at a time, where the first fish placed in the container experience the lid opening and closing more often than subsequent fish.

Keller said he and Kirk Truscott discussed the selection of study fish, notably, how to eliminate human bias at the RRJSF and how to execute this component of the selection process to be more randomized and more representative of run-of-the-river fish. Graphs summarizing size and condition information regarding yearling Chinook salmon study fish selection from past studies (Attachment B) were distributed to the HCP Coordinating Committees by Geris on March 22, 2021. The red graphs are from route-specific passage reports prepared by Hydroacoustic Technology, Inc. (now INNOVASEA) and show the fish length distribution for study fish from 2007, 2008, and 2010. The blue graphs were developed using daily fish length data collected at the RRJSF and show the fish length distributions for run-of-the-river fish collected during the same time periods. Keller said he thinks Truscott's concern is that there is a natural human tendency to gravitate to larger fish, especially when selecting fish from a 3-inch-deep trough containing 100 fish at any given time. However, the average fish lengths (in millimeters [mm]) in Attachment B are surprisingly similar. Keller highlighted data from the graphs as shown in Table 1.

**Table 1. Mean Fish Lengths for Study Years 2007, 2008, and 2010**

<b>Study Year</b>	<b>Study Fish Mean Length (mm)</b>	<b>Observed Run-of-the-River Fish Mean Length (mm)</b>
2007	165.1	163.5
2008	160.9	158.3
2010	168.4	165.7

Keller noted that in all 3 years, the differences in mean lengths were fewer than 3 mm, and he recalled Truscott's request was to verify these differences were not 20 to 30 mm in length. Keller said in reviewing Attachment B, other size trends are similar. For example, most fish larger than 200 mm

that were included in a study were also represented in the run-of-the-river fish that same day. This speaks to the selection criteria used in the past and the methodology for selecting fish at the bypass. The selection process has been performed by one individual at the RRJSF. This individual performs these duties day-to-day. The same individual will conduct these activities for the 2021 Rock Island Survival Confirmation and also plans to conduct these activities for the 2022 Rocky Reach Dam Survival Confirmation Study. Based on a review of this dataset, this individual has done a good job at representing run-of-the-river fish that are present in the length ranges for selection of study fish. Keller did notice on the red graphs (fish length distribution for study fish), there are periodic peaks which fall at predictable, whole number intervals. Chelan PUD will ensure that accurate measurements of fish length are collected and reported that are not rounded to the nearest whole number.

Keller said he and Truscott also discussed biases that can be introduced by including fish in the study that are deemed sick or possibly may not survive the surgical procedure. Chelan PUD continues to feel strongly about not including these fish, ultimately because if a fish is not detected at Rock Island Dam, there is no way to determine with a high level of confidence if this is a project effect or the result of a sick fish undergoing a tagging procedure.

Keller said Truscott also requested data or resolution about the drivers for rejecting fish that met the length criteria from being included in the study. Keller could only find time to review data from the 2010 study prior to this conference call. He reviewed data for fish that fell within the 120- to 220-mm size criteria, notably, how many fish were rejected and for what reason. In 2010, among the 1,936 run-of-the-river fish that met the length criteria, a total of 253 fish were rejected (Table 2).

**Table 2. Fish Rejected for Study Year 2010**

Percent Rejected	Reason for Rejection
47.8%	Presence of passive integrated transponder tag (previously handled)
35.2%	External presence of fungus
1.2%	External signs of bacterial kidney disease
14.2%	Descale or predation
1.6%	Injury

Keller said the main driver for rejecting fish was the presence of a passive integrated transponder tag. He noted that presence of fungus was periodic, where there were a few days of high fungus and then days when there was none. He guessed this might be due to pulses of hatchery fish. Among the fish rejected due to being descaled or showing signs of predation, the majority showed clear, half-moon, marks that indicated an unsuccessful predation attempt. When this is observed at the

RRJSF, notification is sent to the U.S. Department of Agriculture to redirect Northern Pikeminnow removal efforts to the bypass area.

Truscott thanked Keller for pulling together this information. He, too, was surprised at how similar the average fish lengths were for study fish versus run-of-the-river fish. More importantly, the compartments of fish lengths between the two histograms seem to track closely. Regarding the recommendation to use a more randomized system for selecting study fish, an example of this could entail collecting four sample groups at the bypass where every Nth fish within each group is selected for the study. However, after discussing this topic with Keller, whereas this approach for randomization makes sense, it likely results in a greater chance of deviating from the run-at-large length frequency due to the low sample sizes needed for the test and control groups and not all replicates are collected on the same day. Considering this, the CCT can support what is being proposed for selecting study fish at the RRJSF. Truscott hoped the selection process could be more randomized, but the study methodology does not lend itself to a completely randomized design. Regarding fish rejected for reasons other than length, Truscott appreciates understanding the reasons for these rejections and, more importantly, that the total rejected was only approximately 13%, which is a relatively small percentage of the total fish within the length criteria for consideration.

Keller said another point about a randomized design where every Nth fish is selected, is that sometimes the RRJSF is dominated by hundreds to thousands of sockeye salmon, coho salmon, or other species with there being only a handful of potential study fish available. Therefore, selecting every Nth fish might miss collection targets. Additionally, in discussing this topic offline with Rock Island HCP Coordinating Committee representatives, it seemed everyone appreciated the use of a smaller tag, which opens up another 20 mm in fish length to select for study fish. Previous data suggest this broader size range should capture a larger proportion of the yearling Chinook salmon passing Rock Island Dam, which will help meet sample numbers.

Keller said lastly, Truscott commented that the Tagging and Fish Husbandry QA/QC Plan could be clearer about the acceptable rate of descaling for a study fish. The acceptable rate is up to 10% descaling on one side, and a rate greater than 10% descaling on one side will be rejected. Per Truscott's comment, this will be more clearly spelled out in Appendix B of the Tagging and Fish Husbandry QA/QC Plan.

Keller said Chad Jackson is the only Rock Island HCP Coordinating Committee representative he was unable to connect with before today's conference call. He asked if Jackson, or the other Rock Island HCP Coordinating Committee representatives, have any further questions or comments on the study plan documents. Jackson replied no, the summary of Keller's and Truscott's discussion was helpful. Jim Craig said he also had a good discussion with Keller. Craig believes Chelan PUD is headed in the

right direction with the smaller tags to better represent smaller fish in the tagging group.

John Ferguson suggested two minor edits to the draft SOA. No other comments were shared.

Rock Island HCP Coordinating Committee representatives present approved the SOA, *Approval of the 2021 Study Plan, Statistical Plan, and Tagging and Husbandry QA/QC Plan for the 2021 Rock Island Yearling Chinook Confirmation Survival Study*, as revised. (Note: NMFS approved this SOA via email prior to the HCP Coordinating Committee conference call on March 23, 2021, and the two minor edits were shared with NMFS following the conference call.)

The final SOA, 2021 Rock Island Dam Survival Confirmation Study Plan, Statistical Plan, and Tagging and Fish Husbandry QA/QC Plan were distributed to the HCP Coordinating Committees by Geris on March 28, 2021.

#### **B. DECISION: 2019 and 2020 Northern Pikeminnow Annual Reports (Lance Keller)**

The draft Chelan PUD 2019 and 2020 Northern Pikeminnow Annual Reports were distributed to the Rocky Reach and Rock Island HCP Coordinating Committees by Kristi Geris on February 16, 2021. Lance Keller said the only comments received were from USFWS. Keller read the USFWS comments and Chelan PUD responses as included in Attachment C. Regarding USFWS's comment about using stronger gear (test) to reduce leader breakoffs while avoiding Endangered Species Act-listed salmonids, he noted that Chelan PUD also uses increased leader strengths when conducting White Sturgeon M&E studies. To date, there has been no incidental catch of salmon or steelhead on setlines for White Sturgeon, which is conducted from August to October. Jim Craig said he appreciates Chelan PUD's responses to his comments.

Rock Island and Rocky Reach HCP Coordinating Committees representatives present approved the following: 1) Chelan PUD 2019 Northern Pikeminnow Annual Report; and 2) Chelan PUD 2020 Northern Pikeminnow Annual Report. (Note: NMFS approved these reports via email prior to the HCP Coordinating Committee conference call on March 23, 2021.)

#### **C. DECISION: 2020 Rock Island Smolt and Gas Bubble Trauma Evaluation Report, 2020 Rocky Reach Juvenile Fish Bypass System Report, 2021 Rock Island Bypass Monitoring Plan, and 2021 Rocky Reach Juvenile Fish Bypass System Operations Plan (Lance Keller)**

The draft 2020 Rock Island Smolt and Gas Bubble Trauma Evaluation Report and 2020 Rocky Reach Juvenile Fish Bypass System Report were distributed to the Rocky Reach and Rock Island HCP Coordinating Committees by Kristi Geris on February 16, 2021. The draft 2021 Rock Island Bypass Monitoring Plan and *2021 Rocky Reach Juvenile Fish Bypass System Operations Plan* were

distributed to the Rock Island HCP Coordinating Committee by Geris on February 19, 2021. Lance Keller said no comments were received on the reports or plans.

Rock Island and Rocky Reach HCP Coordinating Committees representatives present approved the following: 1) 2020 Rock Island Smolt and Gas Bubble Trauma Evaluation Report; 2) 2020 Rocky Reach Juvenile Fish Bypass System Report; 3) 2021 Rock Island Bypass Monitoring Plan; and 4) *2021 Rocky Reach Juvenile Fish Bypass System Operations Plan. (Note: NMFS approved these documents via email prior to the HCP Coordinating Committee conference call on March 23, 2021.)*

#### **D. DECISION: 2021 Rock Island and Rocky Reach Fish Spill Plan (Lance Keller)**

The draft 2021 Rock Island and Rocky Reach Fish Spill Plan was distributed to the Rock Island and Rocky Reach HCP Coordinating Committees by Kristi Geris on February 23, 2021. Lance Keller recalled discussing last month that key changes in this spill plan include Chelan PUD's plan to have all notch gates operating for the 2021 Rock Island Dam Survival Confirmation Study, including spill gates 17 and 25. This will be accomplished by placing crews on 24/7 standby to operate spill gates manually, if needed. The spill plan also includes language stating that should river flow remain high into June and July, operators may engage in a request to the Rock Island HCP Coordinating Committee to convert notch gates 26 and 18 to full gate functionality. Keller noted that this language only indicates a potential need to discuss converting notch gates 26 and 18 and approving the spill plan today does not approve switching to full gate functionality for these gates.

Rock Island and Rocky Reach HCP Coordinating Committees representatives present approved the 2021 Rock Island and Rocky Reach Fish Spill Plan. *(Note: NMFS approved this plan via email prior to the HCP Coordinating Committee conference call on March 23, 2021.)*

The final 2021 Rock Island and Rocky Reach Fish Spill Plan was distributed to the HCP Coordinating Committees by Geris on March 28, 2021.

#### **E. Rock Island Dam Powerhouse 1 Maintenance Update (Lance Keller)**

Lance Keller said he also addressed this update when connecting with Rock Island HCP Coordinating Committee representatives regarding the selection of study fish for the 2021 Rock Island Dam Survival Confirmation Study. In summary, during the last meeting he reported a shift in the repair schedule for Turbine Unit B4 with an unknown return-to-service date at that time. This is still the case and at this point, Chelan PUD does not anticipate Turbine Unit B4 being operational at the initiation of the 2021 Rock Island Dam Survival Confirmation Study. Recall, one of the main drivers for deferring the 2020 Rock Island Dam Survival Confirmation Study to 2021 was the Turbine Unit B1 to B4 repair schedule. Turbine Unit B4 is the first of the original units to be rehabilitated, so between not knowing what to expect, having contractor performance issues, and the COVID-19 pandemic

resulting in a stop work order in Powerhouse 1, Chelan PUD has needed to repeatedly postpone the return-to-service date of Turbine Unit B4. In the latest letter to FERC,<sup>2</sup> the estimated maintenance schedule had the majority of work on Turbine Units B1 to B4 being completed by now. The initial letter to FERC<sup>3</sup> describes the proposed rehabilitation activities for Turbine Units B1 to B4 and the reasons why this work is designated as maintenance. This is because there will be no changes to the civil works, name plate rating, horsepower, or hydraulic capacity of the units. Work will include replacing the majority of components with lighter components, replacing the original six-blade turbines with four-blade turbines, and installing a no-gap hub that will result in the units having a minimum gap runner. Machine tolerances will be returned to their original specifications to increase efficiency and decrease cavitation. The rehabilitation work will also create an improved environment for juvenile and adult salmonids. Keller noted that Chelan PUD has previously achieved the 93% juvenile survival standard for the Rock Island Project while operating with the original turbine units, including study years 2003 to 2006 under 20% spill and study years 2007 to 2010 under the reduced spring 10% spill. Keller said with the rehabilitated units, Chelan PUD expects to achieve juvenile survival that is equal to or greater than that measured with the original units.

Keller said Chelan PUD is proposing to move forward with the 2021 Rock Island Dam Survival Confirmation Study with Turbine Unit B4 not in operation. Even with Turbine Unit B4 available for operation, the unit may not be operated during the study period due to the load sequence, which prioritizes operating Powerhouse 2 before Powerhouse 1 and units in Powerhouse 1 from the spillway (Turbine Unit B10) to river-left (Turbine Unit B1). Depending on the water year, the load sequence may not reach Turbine Unit B4. In the event that it does, without Turbine Unit B4 online, fish in the vicinity will likely pass via an adjacent Powerhouse 1 unit, which will not result in a change in the route fish use when passing the dam. Additionally, with the upcoming Powerhouse 2 rehabilitation scheduled to start in fall 2021 (in order to have all units back in service in time for the next survival confirmation study in 2031), Chelan PUD's preference is to move forward with the 2021 Rock Island Dam Survival Confirmation Study while Powerhouse 2 is in full operation because approximately 70% of juvenile salmon and steelhead passing the dam use Powerhouse 2 as the preferred passage route.

Keller said in discussing this with Rock Island HCP Coordinating Committee representatives he was able to connect with, no issues were raised. Because he was unable to connect with Chad Jackson, Keller asked if Jackson had any questions. Jackson said he had no questions. John Ferguson asked if

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<sup>2</sup> The draft letter, *Rock Island Hydroelectric Project No. 943; Rehabilitation of Generating Units U1-U8, Powerhouse 2*, was distributed to the HCP Coordinating Committees by Kristi Geris on April 27, 2020, and the final letter was submitted to FERC on July 2, 2020. The *Estimated Maintenance Schedule and Anticipated Capacities*, including the schedule for Powerhouse 1, is included as Attachment B to this letter.

<sup>3</sup> The final letter, *Rock Island Hydroelectric Project, FERC No. 943 Continuation of Rehabilitation Work (Units B1-B4)*, was submitted to FERC on January 10, 2017, and was distributed to the HCP Coordinating Committees by Kristi Geris on August 23, 2017.

Keller connected with Scott Carlon. Keller said yes, he discussed this with Carlon and NMFS was in agreement it makes sense to study in 2021.

Keller said approximately 1,000 acoustic tags are scheduled to arrive next week from the manufacturer, and the detection equipment already arrived (with Blue Leaf), so these components will be ready for the study.

#### **F. Rocky Reach Dam Turbine Units Maintenance Update (Lance Keller)**

Lance Keller said work is continuing on Turbine Unit C3 and Turbine Unit C7. The return-to-service date for Turbine Unit C3 is still the end of May 2021, and Turbine Unit C7 will follow shortly thereafter. He has heard that mechanical crews are making good progress on Turbine Unit C3 and may be ahead of schedule.

#### **G. 2020/2021 Rock Island and Rocky Reach Adult Fishway Winter Maintenance (Lance Keller)**

Lance Keller reviewed adult fishway maintenance updates at Rock Island Dam and Rocky Reach Dam, as follows:

##### Rock Island Dam

Keller said the center fish ladder was returned to service on January 28, 2021; the left fish ladder was returned to service on February 25, 2021; and the right fish ladder was returned to service on February 26, 2021.

Keller said as discussed during the last meeting, power was shut off in the left and middle fish ladders to connect the power leads for the new power and fiber optic conduit. On March 4, 2021, power was shut off in the left fish ladder for 2 hours, from 0745 to 0945, and in the middle fish ladder for 7 hours, from 0745 to 1445. Based on a review of river flow and differential data for these time frames, it appears dam operators set the fish ladders at the appropriate levels; combined with the forebay restrictions on power participants, the fish ladders remained in compliance for the duration of the power outage.

##### Rocky Reach Dam

Keller said the adult fish ladder at Rocky Reach Dam was watered up on February 18, 2021, which was ahead of the February 28 deadline. Chelan PUD appreciates the Rocky Reach HCP Coordinating Committee's approval of the time extension on the front end of the maintenance period to provide more time to complete the required work.



## IV. Douglas PUD

### A. DECISION: 2018 and 2019 Northern Pikeminnow Annual Reports (Tom Kahler)

The draft Douglas PUD 2018 and 2019 Northern Pikeminnow Annual Reports were distributed to the Wells HCP Coordinating Committee by Kristi Geris on February 12, 2021. Tom Kahler said no comments were received on the reports.

Wells HCP Coordinating Committee representatives present approved the following: 1) Douglas PUD 2018 Northern Pikeminnow Annual Report; and 2) Douglas PUD 2019 Northern Pikeminnow Annual Report. *(Note: NMFS approved these reports via email prior to the HCP Coordinating Committee conference call on March 23, 2021.)*

### B. DECISION: 2021 Broodstock Collection Protocols (Tom Kahler)

The 2021 Broodstock Collection Protocols were distributed to the Wells HCP Coordinating Committee by Kristi Geris on March 18, 2021. Tom Kahler noted that the only key change is the description of Columbia River Inter-Tribal Fish Commission sockeye salmon collection, as described in Appendix D. John Ferguson asked if there were any questions or comments. None were shared.

Wells HCP Coordinating Committee representatives present approved the 2021 Broodstock Collection Protocols. *(Note: NMFS approved this document via email prior to the HCP Coordinating Committee conference call on March 23, 2021.)*

The final 2021 Broodstock Collection Protocols were distributed to the HCP Coordinating Committees by Geris on April 13, 2021.

### C. 2020/2021 Wells Dam Winter Maintenance (Tom Kahler)

Tom Kahler said the east fish ladder was returned to service on February 25, 2021, at 1200.

### D. 2021 Wells Dam Emergency Action Plan (Tom Kahler)

Tom Kahler recalled during the HCP Coordinating Committees conference call on January 26, 2021, Andrew Gingerich reviewed revisions to the *Wells Hydroelectric Project 2021 Total Dissolved Gas Abatement Plan* and appended *Wells Bypass Operating Plan (2021 GAP/BOP)* regarding modified spill operations while Spillway 7 is out of service. Kahler said this modification, which also applied to the appended *Wells Hydroelectric Project Spill Playbook (2021 Spill Playbook)*, moved concentrated spill from Spillway 7 to Spillway 5. On February 23, 2021, the Wells HCP Coordinating Committee approved the 2021 GAP/BOP, as revised, and the document was filed with FERC. After this, the Wells Project Chief Operator noted a requirement, per the 2021 Wells Dam Emergency Action Plan, to maintain a certain number of available spillways with automatic gate hoists for use during any one

season. Automatic gate hoists are operated from the Control Room to handle load rejection. With Spillway 7 out of service, approximately 44,000 cubic feet per second (44 kcfs) of automatic gate-hoist capacity is also out of service. By using additional capacity in spillways with bypass barriers in place, system operators can reduce the 44-kcfs deficit to 25 kcfs. This 25 kcfs deficit effects the schedule for the removal of spillway bypass barriers, as described in Table 1 in the 2021 BOP (Figure 1) and also as reported in the 2021 Wells Dam Emergency Action Plan.

<b>Inflow Forecast (kcfs)</b>	<b>Bypass Barriers Removed</b>
Up to 200	None
200 – 240	Spillway 6
240 – 275	Spillways 6, 4
275 – 310	Spillways 4, 6, 8
310 – 350	Spillways 4, 6, 8, 10, & preset gates 10, 11 to spill excess of 312 kcfs
350 – 400	Spillways 4, 6, 8, 10, & preset gates 1, 10, 11 to spill excess of 312 kcfs
400 – 450	All Spillways (2, 4, 6, 8, 10)

**Figure 1. Table 1 in the 2021 BOP**

Kahler said, per the 2021 Wells Dam Emergency Action Plan, with Spillway 7 out of service the inflow forecast needs to be modified by 25 kcfs. This means Spillway 6 bypass barriers need to be removed at 175 kcfs, Spillway 4 bypass barriers need to be removed at 215 kcfs, Spillway 8 bypass barriers need to be removed at 250 kcfs, etc.

Kahler said this does not require a revision to the 2021 BOP because the plan has sufficient flexibility built into it to accommodate this change. However, Douglas PUD wanted to notify the Wells HCP Coordinating Committee that bypass barriers will be removed at different thresholds than are listed in the 2021 BOP. Wells HCP Coordinating Committee representatives had no additional questions regarding this update.

### **E. Land-Use Permit Application and Review Process (Tom Kahler)**

Tom Kahler said he received a question from the Douglas PUD Lands Department regarding land-use permit application reviews. Back in 2017, the Wells HCP Coordinating Committee reviewed a Wells Project Land-Use Permit Application to replace an existing dock with a new dock and float in Brewster, Washington.<sup>4</sup> The application was reviewed and approved by the Wells HCP Coordinating Committee, after no comments or disapprovals were received prior to the review deadline. The

<sup>4</sup> Wells Project Land-use Permit Application (Small Block LLC) distributed to the HCP Coordinating Committees by Kristi Geris on April 17, 2017, and approved by the Wells HCP Coordinating Committee on June 16, 2017, after no disapprovals were received prior to the 60-day review period deadline.

applicant subsequently obtained all permits from reviewing agencies, and Douglas PUD issued a Wells Project Land-Use Permit to install the replacement dock. However, the landowner sold the property before the work was completed and the new landowner wants to apply the same actions that were already approved by the Wells HCP Coordinating Committee. The question is, does the Wells HCP Coordinating Committee want to review this application again?

Per Section 5.1 of the Wells HCP:

*The District further agrees to notify and consider comments from the Parties to the Agreement regarding any land use permit application on Project owned lands.*

John Ferguson asked if the engineering designs are the same, and Kahler said everything is exactly the same, just a different landowner.

Jim Craig said USFWS prefers not to review the application again if nothing has changed. Kirk Truscott asked, in terms of the administrative record, how will Douglas PUD characterize a new permit number authorizing the activities that has no corresponding assessment from the Wells HCP Coordinating Committee? Kahler suggested documenting that the Wells HCP Coordinating Committee declined to review the application again. Truscott agreed with this suggestion. Keely Murdoch also agreed it is not necessary to review the application again, but the Yakama Nation (YN) does appreciate that Douglas PUD provided the option. Chad Jackson said WDFW agrees with Murdoch's comments.

Wells HCP Coordinating Committee representatives present agreed to decline a second review of a Wells Project Land-Use Permit Application submitted by a new landowner for a previously permitted activity<sup>14</sup> because there is no change in activities, just a change in land ownership.

Kahler said the Douglas PUD Lands Department has one more question. In this situation, an existing land-use action is already permitted and in place. The landowner sells the property and because the permit expires with ownership, Douglas PUD issues a new permit under the new landowner's name, but there is no change in land-use. Per the language in the Wells HCP, Douglas PUD should provide a Wells HCP Coordinating Committee review. Does the Committee want to review this type of situation, where there is no change in land-use and there is just a new owner?

Truscott said he would at least like to be notified of these changes so he can update his own records. Craig agreed.

Wells HCP Coordinating Committee representatives present agreed to decline review of Wells Project Land-Use Permit Applications submitted by new landowners of previously permitted land-use when

there is no change in land-use, just a change in land ownership; but requested to be notified when such changes in the permit holder occur for their records.

## **V. HCP Administration**

### **A. COVID-19 Updates (John Ferguson)**

John Ferguson asked if there are any updates HCP Coordinating Committees members would like to share regarding impacts of COVID-19 on HCP activities.

Ferguson recalled that Tracy Hillman indicated the CCT are vaccinating tribal staff, and he heard from Jason McLellan (CCT Aquatic Settlement Work Group Technical Representative) that the CCT are reopening offices on April 5, 2021. Kirk Truscott clarified that the CCT are not requiring vaccinations; rather, vaccinations are being made available to interested staff.

Keely Murdoch said the YN has been hosting vaccination clinics for tribal and non-tribal members. Similar to the CCT, these vaccinations are not mandatory but are available. Ferguson asked if the YN has a date to reopen offices, and Murdoch said she is unaware of a reopening date.

Chad Jackson said WDFW has no updates to share.

Lance Keller said Chelan PUD is providing the opportunity for staff to get vaccinated and is planning to bring more employees back to the office on April 5, 2021. The Chelan PUD Fish and Wildlife Department is already working in the office.

No other updates were shared.

### **B. Timing of Review and Approval of HCP Documents (John Ferguson)**

John Ferguson said a table summarizing proposed changes to the timing of review and approval of HCP documents was distributed to the HCP Coordinating Committees by Kristi Geris on March 8, 2021 (Attachment D). Lance Keller and Tom Kahler reviewed the table. Kahler noted that changing the annual report submittal deadlines will require a formal request and documentation from the HCP Coordinating Committees to FERC that this is being requested. Ferguson asked if the PUDs foresee any issues with FERC about this request? Andrew Gingerich said if there is unanimous support from the HCP Coordinating Committees, he does not expect issues because a similar change in reporting dates was recently completed for an Aquatic Settlement Agreement report.

HCP Coordinating Committee representatives present thanked the PUDs for their efforts, and all agreed to the proposed modifications to the timing of the review and approval of HCP documents. Ferguson said the next step is for the PUDs to move this forward.

### **C. Next Meetings (John Ferguson)**

The next scheduled HCP Coordinating Committees meeting is on April 27, 2021, at 9:00 a.m., to be held by conference call.

The May 25 and June 22, 2021, meetings will be held by conference call or in person at the Grant PUD Wenatchee Office in Wenatchee, Washington, as is yet to be determined.

## **VI. List of Attachments**

Attachment A List of Attendees

Attachment B Graphs Summarizing Size and Condition Information Regarding Yearling Chinook Salmon Study Fish Selection

Attachment C Chelan PUD 2019 and 2020 Northern Pikeminnow Annual Reports – USFWS comments and Chelan PUD responses

Attachment D Proposed Changes to the Timing of Review and Approval of HCP Documents

**Attachment A**  
**List of Attendees**

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<b>Name</b>	<b>Organization</b>
John Ferguson	Anchor QEA, LLC
Kristi Geris	Anchor QEA, LLC
Tracy Hillmant†	BioAnalysts
Lance Keller*	Chelan PUD
Bill Towey	Chelan PUD
Tom Kahler*	Douglas PUD
Andrew Gingerich*	Douglas PUD
Jim Craig*	U.S. Fish and Wildlife Service
Chad Jackson*	Washington Department of Fish and Wildlife
Kirk Truscott*	Colville Confederated Tribes
Keely Murdoch*	Yakama Nation

Notes:

- \* Denotes HCP Coordinating Committees member or alternate
- † Joined for the HCP Hatchery and Tributary Committees update