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FINAL MEMORANDUM

To: Wells, Rocky Reach, and Rock Island HCPs Coordinating Committees **Date:** August 25, 2015
From: John Ferguson, Chairman
Cc: Kristi Geris
Re: Final Minutes of the June 23, 2015 HCPs Coordinating Committees Meeting

The Wells, Rocky Reach, and Rock Island Hydroelectric Projects Habitat Conservation Plans (HCPs) Coordinating Committees met at the Radisson Gateway Hotel, in SeaTac, Washington, on Tuesday, June 23, 2015, from 9:30 a.m. to 12:30 p.m. Attendees are listed in Attachment A of these meeting minutes.

ACTION ITEM SUMMARY

- Chelan PUD will provide an updated Rocky Reach Juvenile Fish Bypass (RRJFB) pre-season marked fish release results table that includes additional notes about the results, as requested, to Kristi Geris for distribution to the Coordinating Committees (Item I-C).
 - John Ferguson will coordinate with Brian Burke (National Marine Fisheries Service [NMFS]) about presenting to the Coordinating Committees in the fall 2015 Burke's presentation titled, "*Ocean Conditions in 2014; Potential Consequences for Salmon*," that Tracy Hillman (BioAnalysts) shared with the HCP Hatchery and Tributary Committees in the spring 2015 (Item I-C).
 - Tracy Hillman will provide the most recent progress report on nutrient work in the Yankee Fork Salmon River, as discussed during the HCP Tributary Committees Update, to Kristi Geris for distribution to the Coordinating Committees (Item II).
(Note: Hillman provided the report titled, "Salmon River Basin Nutrient Enhancement: Contract Year 2014-2015 Research, Monitoring, and Evaluation [RME] Annual Progress Report," [Kohler et al. 2015] to Geris following the meeting on June 23, 2015, which Geris distributed to the Coordinating Committees that same day.)
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- Tom Kahler will provide the corrected memorandum outlining the comparison of juvenile survivals of spring Chinook and coho salmon and steelhead released from Winthrop National Fish Hatchery (NFH) to Kristi Geris for distribution to the Coordinating Committees (Item IV-A). *(Note: Kahler provided the corrected memorandum to Geris following the meeting on June 23, 2015, which Geris distributed to the Coordinating Committees that same day.)*
- Tom Kahler will contact Bob Rose regarding obtaining the Yakama Nation's (YN's) expedited approval of Wells Project Land-use Permit Application No. 1030-01 (Colville Confederated Tribes [CCT]; Item IV-B).
- Tom Kahler will provide the Columbia River Inter-Tribal Fish Commission's (CRITFC's) letter outlining proposed scheduling for sockeye salmon sampling at Wells Dam in 2015 to Kristi Geris for distribution to the Coordination Committees (Item III-C). *(Note: Kahler provided CRITFC's schedule to Geris following the meeting on June 23, 2015, which Geris distributed to the Coordinating Committees that same day.)*
- **The Coordinating Committees meeting on July 28, 2015, will be held by conference call** (Item VI-B).

DECISION SUMMARY

- There were no decisions approved during today's meeting.

AGREEMENTS

- The Coordinating Committees representatives present agreed to move the monthly HCP Hatchery and Tributary Committees Update from the end of the meeting to the beginning of the meeting (approximately 9:45 am), in the interest of continuity and scheduling (Item II).
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REVIEW ITEMS

- Kristi Geris sent an email to the Coordinating Committees on May 5, 2015, notifying them that the draft 2014 Douglas PUD Pikeminnow Program Annual Report is available for a 60-day review period, with edits and comments due to Tom Kahler by Monday, July 6, 2015.
 - Kristi Geris sent an email to the Coordinating Committees on May 12, 2015, notifying them that a Wells Project Land-use Permit Application (Tract 824 Matherly) was available for a 60-day review period, with edits and comments due to Tom Kahler by Monday, July 13, 2015. *(Note: no comments were received from Coordinating Committees members on the proposed land-use actions.)*
 - Kristi Geris sent an email to the Coordinating Committees on May 14, 2015, notifying them that a Wells Project Land-use Permit Application (Tract 82 Wick) was available for a 60-day review period, with edits and comments due to Tom Kahler by Monday, July 13, 2015. *(Note: no comments were received from Coordinating Committees members on the proposed land-use actions.)*
 - Kristi Geris sent an email to the Coordinating Committees on June 16, 2015, notifying them that a Wells Project Land-use Permit Application (Permit 1030-01 CCT) was available for a 60-day review period, with edits and comments, or indication of no comments, due to Tom Kahler by Friday, August 14, 2015 (Item IV-B).
 - Kristi Geris sent an email to the Coordinating Committees on June 16, 2015, notifying them that a Wells Project Land-use Permit Application (Permit 130-01 Earl and Cartwright) was available for a 60-day review period, with edits and comments, or indication of no comments, due to Tom Kahler by Friday, August 14, 2015 (Item IV-B).
 - Kristi Geris sent an email to the Coordinating Committees on August 10, 2015, notifying them that two Wells Project Land-use Permit Applications (Permit 716-01 Fry and Permit 828 See) were available for a 60-day review period, with edits and comments, or indication of no comments, due to Tom Kahler by Friday, October 9, 2015.
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DOCUMENTS FINALIZED

- The Final Chelan PUD Rock Island Interim Fish Passage Plan (IFPP) Biological Assessment was distributed to the Coordinating Committees by Kristi Geris on June 12, 2015 (Item IV-A).
- Kristi Geris sent an email to the Coordinating Committees on July 7, 2015, notifying them that the 2014 Douglas PUD Pikeminnow Program Annual Report was finalized following a 60-day review period, which ended on July 6, 2015. As noted in the email, no comments were received from Coordinating Committees members on the draft report.

I. Welcome

A. Review Agenda (John Ferguson)

John Ferguson welcomed the Coordinating Committees and asked for any additions or changes to the agenda. Tom Kahler added an update on sockeye salmon tagging at Wells Dam.

B. Meeting Minutes Approval (John Ferguson)

The Coordinating Committees reviewed the revised draft April 21, 2015, conference call minutes. Kristi Geris noted the addition of two review items, and said all other comments and revisions received from members of the Committees were incorporated into the revised minutes. Coordinating Committees members present approved the April 21, 2015, conference call minutes, as revised, with the Washington Department of Fish and Wildlife (WDFW) abstaining.

C. Last Meeting Action Items (John Ferguson)

Action items from the Coordinating Committees meeting on April 21, 2015, and follow-up discussions, were as follows (*note: italicized item numbers below correspond to agenda items from the April 21, 2015, meeting*):

- *Chelan PUD will provide an updated RRJFB pre-season marked fish release results table, which includes additional notes about the results, to Kristi Geris for distribution to the Coordination Committees (Item II-A).*
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This action item will be carried forward.

- *Douglas PUD will confirm with the YN their plans to trap summer Chinook salmon for the YN Yakima River Reintroduction at Wells Dam in 2015 and provide a finalized 2015 Douglas PUD Trapping Activities table to Kristi Geris for distribution to the Coordination Committees (Item III-A).*

Tom Kahler confirmed trapping plans with the YN and provided a final table to Geris following the meeting on April 21, 2015, which Geris distributed to the Coordinating Committees the same day.

- *Scott Carlon will coordinate with Bryan Nordlund (NMFS, retired) and Douglas PUD to discuss concerns Nordlund raised regarding reopening the low-level fishway entrance at Wells Dam, and Douglas PUD will report back to the Coordinating Committees regarding a path forward (Item III-E).*

Carlon said he contacted Nordlund who indicated he believes reopening the low-level fishway entrance at Wells Dam may still be of concern to salmonid passage; however, he did not necessarily advocate reopening or not reopening the entrance. Tom Kahler said Douglas PUD decided to postpone the 2015 Lamprey Study, and, therefore, leave the entrance closed. He added that Douglas PUD hopes to install the lamprey boxes during the 2015/2016 winter maintenance period at Wells Dam.

- *Wells HCP Coordinating Committee representatives will submit edits and comments, or indication of no comments, on the Wells Project Land-use Permits for renewal (105 total permits) to Douglas PUD by Monday, May 4, 2015 (Item III-F).*

This action item was completed.

- *Wells HCP Coordinating Committee representatives will submit edits and comments, or indication of no comments, on the Wells Project Land-use Permits for renewal (Nos. 57A-01, 57HA-01, and 1001-01) to Douglas PUD by Friday, June 19, 2015 (Item III-F).*

This action item was completed.

- *Tom Kahler will discuss internally if Wells Project Land-use Permit No. 57A-01 (up for renewal) includes permitting for any new work and report back to the Coordinating Committees (Item III-F).*
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Kahler said he followed up with Kirk Truscott (who made this inquiry during the Coordinating Committees conference call on April 21, 2015), indicating that no new work was proposed, and Truscott had no additional comments.

- *John Ferguson will ask Tracy Hillman (BioAnalysts) if he can share with the Coordinating Committees NMFS' presentations titled, "Ocean Conditions in 2014; Potential Consequences for Salmon," and "Estimation of Survival and Run Timing of Adult Spring/Summer Chinook from the Columbia River Estuary to Bonneville Dam," that he recently shared with the HCP Hatchery and Tributary Committees (Item IV).* Ferguson said Hillman suggested that Brian Burke and Michelle Rub (NMFS), co-authors of these presentations, provide the presentations to the Coordinating Committees. Ferguson said Burke is largely unavailable this summer, but agreed to present in the fall 2015, and Rub is presenting today. Ferguson said he will coordinate with Burke about presenting to the Coordinating Committees his presentation titled, "Ocean Conditions in 2014; Potential Consequences for Salmon," in the fall of 2015. Hillman shared this presentation with the HCP Hatchery and Tributary Committees in the spring 2015.
- *The Coordinating Committees meeting on May 26, 2015, will be held by conference call (Item V-E).*

This meeting was canceled due to lack of agenda items.

II. HCP Hatchery and Tributary Committees Update (John Ferguson and Tracy Hillman)

John Ferguson said because Tracy Hillman is now the Chairman for the HCP Hatchery Committees and HCP Tributary Committees, instead of Hillman providing a written briefing for Ferguson to share with the Coordinating Committees, Hillman plans to call into every meeting to verbally provide the updates himself. Ferguson said that he, Hillman, and Kristi Geris convene by conference call prior to each Coordinating Committees meeting to discuss any potential issues ahead of time. Ferguson proposed a new routine and the Coordinating Committees representatives present agreed to move the monthly HCP Hatchery and Tributary Committees Update from the end of the meeting to the beginning of the meeting (approximately 9:45 am), in the interest of continuity and scheduling.

Hillman updated the Coordinating Committees on the following actions and discussions that occurred at the last HCP Hatchery Committees meeting on June 17, 2015:

- *New Hatchery Committees Support – Sarah Montgomery (Anchor QEA):* Montgomery was introduced to the HCP Hatchery Committees. She will replace Geris as the HCP Hatchery Committees Support Staff in September 2015.
 - *YN Kelt Reconditioning Program Update:* The YN provided a presentation on their Upper Columbia Kelt Reconditioning Project, which to date, has been a productive program. Female steelhead are being collected in tributaries in the Methow Basin and in the mainstem Columbia River, cultured for about 9 months, and monitored for maturation and survival. In 2014, total survival was about 76%, and Twisp River-origin kelts appeared to be the most successful among those collected. The YN are evaluating the potential for additional future studies. Lance Keller noted the strict criteria that need to be met for a fish to be retained for the program (e.g., no fungus, no injuries, and minimal fin wear, among others). Tom Kahler said the reconditioned kelts are released during the fall when the run at large is passing through the Mid-Columbia River. Ferguson asked where the reconditioned fish are released. Hillman said those captured in the Methow Basin are released back to the Methow Basin, and those captured at Rock Island Dam are released back to the Columbia River.
 - *Methow Spring Chinook Adult Management Update:* The Hatchery Committees approved the Methow Spring Chinook Adult Management Plan on May 20, 2015. The goal of the plan is to reduce percent hatchery-origin spawners (pHOS) on the spawning grounds, specifically in the Methow Basin with regard to spring Chinook salmon. Adult management will be performed to maintain a pHOS of less than or equal to 50% and a proportion of natural-origin fish in hatchery broodstock (pNOB) of greater than 50%. Part of adult management for the Twisp Weir includes the following: 1) removing all adipose (ad)-clipped adults encountered; 2) for Methow Fish Hatchery (FH), achieving a proportionate natural influence (PNI) target based on a sliding scale; and 3) for Winthrop NFH, removing all ad-clipped adults and hatchery-origin age-3 males encountered. This year is a pilot study to inform future years of adult management in the Methow Basin.
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- *Methow Basin Spring Chinook Program:* The Hatchery Committees approved the Chelan PUD Methow Spring Chinook Hatchery Production Obligation Statement of Agreement on March 27, 2015, which authorizes the establishment of an Interlocal Agreement (ILA) with Douglas PUD. An ILA to collect Chelan PUD Methow spring Chinook salmon at Wells Dam and hold, spawn, and early-rear the fish at Methow FH is now almost finalized. Additionally, due to the early spring Chinook salmon run this year, the Hatchery Committees agreed to backfill Chelan PUD's brood year (BY) 2015 Methow Spring Chinook Program with hatchery-origin MetComp spring Chinook salmon collected at Methow FH in order to avoid tangle netting in the Chewuch River.
 - *2015 Chelan PUD Hatchery Monitoring and Evaluation (M&E) Implementation Plan Schedule:* Chelan PUD proposed changing the deadline to provide their draft Hatchery M&E Annual Implementation Plan to the Hatchery Committees for review from July 1 (as previously agreed to on December 12, 2012) to August 1 of the year preceding the proposed M&E activities, so long as there are no significant changes requiring Hatchery Committees discussion. The Hatchery Committees approved.
 - *Revised Chelan PUD Hatchery M&E Annual Report Review/Submission Timeline:* Chelan PUD proposed changing the Hatchery M&E Annual Report scheduling to providing the Hatchery Committees with a draft Hatchery M&E Annual Report for a 30-day review by June 15 (previously June 1), with the final report due to NMFS by September 1 (previously due June 1; NMFS approved the newly proposed September 1 deadline). The Hatchery Committees approved.
 - *Hatchery Evaluation Technical Team (HETT) Update:* In April 2015, the Hatchery Committees reconvened the HETT to finalize the appendices to the Hatchery M&E Plan. Currently, draft Appendices 2, 4, 5, and 6 are complete, and draft Appendices 1 and 3 are still outstanding. The goal is to complete all draft appendices and reconvene the HETT to discuss finalizing the appendices by the end of July 2015.
 - *Hatchery and Genetic Management Plan (HGMP) Update:* NMFS plans to continue drafting the Methow Spring Chinook HGMP soon. The Wenatchee Steelhead HGMP is in the final stages of development before being sent to National Oceanic and Atmospheric Administration General Counsel review. On a side note, the Washington State Legislature is requiring a Contingency Plan for certain state
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facilities/locations due to the drought. The Chelan PUD Chiwawa Acclimation Facility is also preparing for drought, and the Chiwawa ponds are already being filled with water (earlier than usual). Jeff Korth said one big pond and two indoor circulars are being filled. Jim Craig asked if the pond will be aerated throughout the summer. Korth said he was not sure; however, there will be some recirculation and it will be routinely cleaned.

- *Five-Year Hatchery M&E Review Planning – Methow Spring Chinook Objectives 1, 4, 7:* A subgroup of the Hatchery Committees convened to determine how to evaluate the last Five-Year Hatchery M&E Report (2006 to 2010). The path forward includes evaluating each objective and identifying shortcomings by basin and species, starting with Methow spring Chinook salmon. To date, the Hatchery Committees have reviewed Objectives 1, 4, and 7 for Methow spring Chinook salmon. Each objective was discussed in terms of where targets are not being met, and items needing additional discussion were flagged. For the Hatchery Committees meeting on July 15, 2015, Objectives 2 (migration timing, spawn timing, and redd distribution) and 5 (stray rates) will be addressed. As currently scheduled, all objectives for the Methow Spring Chinook Salmon Program will be evaluated through the end of 2015, and then the Hatchery Committees will commence an adaptive management feedback loop.
- *Hatchery Committees Meeting Protocols:* A final draft Hatchery Committees Meeting Protocols was distributed to the Hatchery Committees. The protocols are intended to assist Hillman’s transition into the Hatchery Committees Chairman position and help keep future proceedings, such as business as usual.
- *Coordination/Joint Sessions with Priest Rapids Coordinating Committee Hatchery Sub-Committee (PRCC HSC):* The Hatchery Committees agreed to convene joint sessions with the PRCC HSC when there are agenda items applicable to, and which require participation from, the Hatchery Committees and PRCC HSC.
- *Next Meetings:* The next meeting of the Hatchery Committees will be on Wednesday, July 15, 2015, at Douglas PUD Headquarters in East Wenatchee, Washington.

Hillman updated the Coordinating Committees on the following actions and discussions that occurred at the last HCP Tributary Committees meeting on June 15, 2015:

- *General Salmon Habitat Program Draft Proposals:* This year, eight draft proposals requesting HCP funding matches were received during the solicitation of projects for the 2015 funding round of the Washington State Salmon Recovery Funding Board. All projects were reviewed, and it was determined that two did not warrant a full proposal (rejected). Full proposals were solicited from the remaining six projects, one of which has already been funded by other means; so, five full proposals are now expected. The Tributary Committees will review the proposals in July 2015 and will have funding decisions by July or August 2015.
 - *General Salmon Habitat Program Application:* The Okanogan Conservation District requested funding for their Similkameen River 3.8 River Mile (RM) Habitat Rehabilitation Project. The purpose of the project is to improve instream habitat and reduce bank erosion within a quarter-mile section of the Similkameen River by installing four flow-deflection structures made of large woody material and planting native species along the bank to accelerate reestablishment of riparian vegetation. This work is intended to improve habitat, primarily for summer Chinook salmon. The Rocky Reach Tributary Committee elected to fund this project with \$67,370 from the Rocky Reach Plan Species Account for the project.
 - *Small Projects Program Applications:* Two applications were received from the Cascade Columbia Fisheries Enhancement Group. The first application requested funding for “Permitting Nutrient Enhancement in the Chiwawa.” The purpose of the project is to develop a treatment and effectiveness monitoring plan, and obtain permits from the U.S. Forest Service and Washington State Department of Ecology to conduct a 4-year, nutrient-enhancement pilot project in the Chiwawa River. The total cost of the project is \$40,250. The sponsor requested \$40,250 from HCP Tributary Funds. The Tributary Committees declined to fund the project because the Committees believed the project was too expensive and that their limited funds would be better spent on other restoration projects in the Upper Columbia Basin, as opposed to spending funds on permitting a nutrient-enhancement project that would likely not achieve the objectives of the original project funded in 2013. The second application requested funding for the White River Floodplain Connection Project (RM 3.4). The purpose of the project is to remove a culvert that limits floodplain connectivity along the lower White River, with the intent to improve fish access to a side channel and a 40-acre wetland. The total cost
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of the project is \$35,500. The sponsor requested funding for the entire project, which the Rock Island Tributary Committee elected to fund. Jeff Korth requested clarification for denying funding for the first application. Hillman said the project was too expensive. He added that the month before, the sponsor only requested \$10,000 for the monitoring plan, but when the application was received it was four-times more than originally requested. He said, additionally, the Tributary Committees would rather use limited funds to support process-based restoration projects—not nutrient enhancement projects. He said researchers studying different nutrient enhancement techniques in the Yankee Fork are finding that planting live fish instead of carcasses or analogs provides a bigger boost to ecosystem function. Korth asked about the source of the live fish, and Hillman said he believes they are surplus hatchery-origin fish from the Sawtooth Hatchery. Korth asked if nutrient enhancement efforts would be coordinated with the HCP Tributary and Hatchery Committees. Kirk Truscott noted that there is a specific Adult Management Plan for Wenatchee spring Chinook salmon in the Wenatchee Basin, and adding more adults in the Chiwawa River will be in conflict with pHOS for that basin. Hillman agreed, also noting that HCP Hatchery Committees approval would be needed for this type of action. Tom Kahler noted that the annual releases of over 1,000,000 hatchery spring Chinook salmon into the Methow Basin over the last several decades have not alleviated the limitation of available nutrients in that basin, and have instead likely reduced the production of natural-origin Chinook salmon because of competition and introgression. Jim Craig asked if there is any M&E reporting available on this topic. Hillman said the most recent progress report on nutrient work in the Yankee Fork Salmon River is available on the Bonneville Power Administration website. He added that he will provide this report on nutrient work in the Yankee Fork Salmon River to Geris for distribution to the Coordinating Committees. *(Note: Hillman provided the report titled, “Salmon River Basin Nutrient Enhancement: Contract Year 2014-2015 Research, Monitoring, and Evaluation [RME] Annual Progress Report,” [Kohler et al. 2015] to Geris following the meeting on June 23, 2015, which Geris distributed to the Coordinating Committees that same day.)*

- *Tributary Assessment Program Application:* In May, the Okanagan Nation Alliance requested funding to purchase and install a permanent passive integrated transponder (PIT)-tag interrogation system near the mouth of Shingle Creek to monitor
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recolonization of the stream by steelhead and spring Chinook salmon. The total cost of the project is \$42,422, and the sponsor requested \$35,867 from HCP Tributary Assessment Funds. The Wells Tributary Committee chose to fund the project contingent on receiving a brief annual report or memorandum that summarizes findings. Hillman recalled that about 1 year ago, the Wells Tributary Committee elected to fund removal of a dam on Shingle Creek, now the creek will be equipped with PIT-tag detection capability. John Ferguson asked about who will be maintaining the PIT-tag detection system. Hillman said the Okanogan Nation Alliance will be tracking these data, and to his understanding, data will be uploaded to the PIT-Tag Information System. Kahler noted that the CCT will maintain the system through their Okanogan Basin M&E Program.

- *Review Middle Entiat 30% Restoration Designs:* The U.S. Bureau of Reclamation requested that the Tributary Committees review 30% designs for restoration actions proposed to be implemented on lands purchased with Plan Species Account funds in the middle segment of the Entiat River. Comments are due today.
- *Next Steps:* The next meeting of the Tributary Committees will be on Thursday, July 9, 2015, at Grant PUD in Wenatchee, Washington.

III. NMFS

A. *PRESENTATION: Estimation of Survival and Run Timing of Adult Spring/Summer Chinook from the Columbia River Estuary to Bonneville Dam (Michelle Rub [NMFS])*

Michelle Rub shared a presentation titled, “Estimation of Survival and Run Timing of Adult Spring/Summer Chinook from the Columbia River Estuary to Bonneville Dam,” (Attachment B), which was distributed to the Coordinating Committees by Kristi Geris on June 24, 2015. This presentation included estimates of the numbers of pinnipeds counted in the estuary from 2010 through 2014 and provided an early estimate for 2015—the latter of which is about four times greater than the number estimated in 2014. Based on mark-recapture studies in the estuary since 2010, average annual Chinook salmon survival from release after tagging to Bonneville Dam has ranged from 55 to 90%. Mortality was highest and travel times to Bonneville Dam were slowest for fish tagged in March and April. Upper Columbia River spring Chinook salmon comprised 36% of the early component of the run. The higher mortality and longer travel times coincided with peak numbers of sea lions.

In addition, the average annual survival of Chinook salmon decreased from 2010 to 2014, which correlates with the estimated number of sea lions counted at haul-out locations near Astoria, Oregon. The study also indicated parental-based genetics testing shows promise for evaluating hatchery- and tributary-level information on Chinook salmon survival and movement. The increasing numbers of pinnipeds in the estuary could create survival bottlenecks for selected salmon runs.

IV. Douglas PUD

A. Coho Survival Estimates (Tom Kahler)

Tom Kahler said he previously distributed to individual Coordinating Committees members a corrected comparison of juvenile survivals of spring Chinook salmon, coho salmon, and steelhead released from Winthrop NFH. Kahler recalled that in August 2014, Douglas PUD asked Dr. John Skalski and Dr. Richard Townsend of Columbia Basin Research to run this analysis to help determine whether the surrogacy assumption that coho salmon likely survive passage at Wells Dam at levels similar to other yearling spring migrants is valid. Kahler said Peter Graf (Grant PUD) found an error in one of the tables (which subsequently affected another table), which Dr. Townsend has corrected. For those without a copy on hand, Kahler handed out the corrected memorandum, which also includes 2014 results not included in the August 2014 memorandum. He said he will also provide an electronic version of the corrected memorandum to Kristi Geris for distribution to the Coordinating Committees. *(Note: Kahler provided the corrected memorandum [Attachment C] to Geris following the meeting on June 23, 2015, which Geris distributed to the Coordinating Committees that same day.)*

Kahler noted that Tables 4 and 5 in Attachment C contain corrected ratios, which indicate, in general, spring Chinook salmon survival is expected to exceed coho salmon survival; however, for steelhead, coho salmon survival is higher in 3 out of 5 years and significantly higher in 1 out of 5 years. He said the previous analysis (before the correction) indicated that coho salmon survival was higher than steelhead in only 1 of 5 years. He summarized the data by stating that coho salmon survival appeared to be lower than spring Chinook salmon and higher than steelhead.

Jeff Korth asked, as demonstrated in Table 3 of Attachment C, why some fish appear to be speeding up farther downstream (decreasing travel times). Kahler said Cory Kamphaus (YN) stated that the coho salmon were released before they were ready to volitionally migrate, so they may be spending a lot of time in the Methow before they reach the Columbia River.

Kahler recalled that currently, Douglas PUD is using a survival value for yearling spring migrants based on past Chinook salmon and steelhead studies. He said the Coordinating Committees will eventually need to determine how to establish a coho salmon survival value and what that value will be. He said, however, this discussion will require that all HCP Parties are present, specifically the YN, as he recalled the YN having reservations on approving a Statement of Agreement the last time this was discussed. He said he plans to coordinate with Bob Rose prior to putting this discussion on the agenda. Kahler said the purpose of today's agenda item was merely to provide the memo with corrected table numbers.

John Ferguson asked if the correction affected the reported coho salmon survival. Kahler replied no, that the error did not change survival; it only changed the ratios in Tables 4 and 5 in Attachment C. Jim Craig asked if survival was based on PIT-tag detections, and Kahler said it was. Craig questioned the use of a surrogate if survival was measured directly with coho salmon. Kahler explained that because no survival studies have been conducted for coho salmon, the only survival measurement known for coho salmon is from these single-release comparisons, which are not measurements of Wells Project survival, but rather of Rocky Reach to McNary dams. He recalled that when Douglas PUD and the YN first established a coho salmon agreement, there was no surplus broodstock available for a survival study. Also, they did not want to take a portion of the fish destined to the Methow Basin and release them at the City of Pateros as a survival study group. He said the YN may be willing to do this now if returns remain strong. He added, however, that Douglas PUD cannot conduct a coho salmon survival study until after the Wells Hatchery Modernization is complete, which is scheduled for 2018. He said once the modernization is complete, Douglas PUD already has plans for another survival verification study for yearling spring migrants in 2020, so a potential survival study may not be feasible until around 2021.

B. Wells Project Land-Use Permit Applications – Permit 1030-01 (CCT) and Permit 130-01 (Earp and Cartwright)(Tom Kahler)

Tom Kahler said Kristi Geris sent an email to the Coordinating Committees on June 16, 2015, notifying them that two Wells Project Land-use Permit Applications (Permit 1030-01 CCT and Permit 130-01 Earl and Cartwright) were available for a 60-day review period, with edits and comments, or indication of no comments, due to Kahler by Friday, August 14, 2015. Kahler noted that these are new applications (not re-permitting). He said Permit 130-01 is for an existing orchard located within Tract 130 along the Okanagan River. He said the owners have been using the land for years; however, Douglas PUD has never permitted the action. He said this action is to permit the owners for that activity. He said Permit 1030-01 is for mooring of a CCT fishing vessel that is anchored just offshore of their property. He said this activity has been ongoing, and permitting is just a formality. He added that under this permit, the CCT agreed to keep the access road mowed.

Kahler said there is no urgency with Permit 130-01; however, it would be helpful to expedite review of Permit 1030-01. Coordinating Committees representatives present indicated no comments on Permit 1030-01. Kahler said he will contact Bob Rose regarding obtaining the YN's expedited approval of Wells Project Land-use Permit Application No. 1030-01.

C. Sockeye Tagging at Wells Dam (Tom Kahler)

Tom Kahler said Jeff Fryer (CRITFC) provided Douglas PUD with the schedule for tagging sockeye salmon at Wells Dam in 2015, which started this week. Kahler said the plan is to tag 50 fish this week, including 5 acoustically-tagged and 2 acoustic-plus-temperature-and-depth-tagged fish. He said tagging will continue through July and finish the week of August 2, 2015. He noted that, to date, more than 3,000 sockeye salmon have already passed Wells Dam, and the goal is to tag proportionally throughout the run. He added that he will provide CRITFC's Proposed Scheduling for Sockeye Salmon Sampling at Wells Dam in 2015 to Kristi Geris for distribution to the Coordination Committees (Item III-C). *(Note: Kahler provided CRITFC's schedule [Attachment D] to Geris following the meeting on June 23, 2015, which Geris distributed to the Coordinating Committees that same day.)*

V. Chelan PUD

A. Final Chelan PUD Rock Island IFPP Biological Assessment (Lance Keller)

Lance Keller said the Final Chelan PUD Rock Island IFPP Biological Assessment was distributed to the Coordinating Committees by Kristi Geris on June 12, 2015. Keller said the initial due date to NMFS and USFWS was May 1, 2015; however, Grant PUD and Chelan PUD were able to submit their respective reports on May 6, 2015. Keller said comments were received from Scott Carlon and Steve Lewis (USFWS), which were addressed in the final document. Keller said the only communication received from the Federal Energy Regulatory Commission since the reports were submitted is that they are trying to schedule a conference call with USFWS, Grant PUD, and Chelan PUD to check-in on any updates.

Keller said at Rock Island Dam, the denil structures are still in place. He said that included in the Biological Assessment were plans to remove the denils during the annual winter maintenance period at Rock Island Dam (January to February 2016). He said removal of the denils was planned during the upcoming annual maintenance period in order to avoid additional outages.

VI. HCP Committees Administration

A. HCP Hatchery Committees Distribution Lists and Extranet Site Access – Sarah Montgomery (John Ferguson)

John Ferguson notified the Coordinating Committees that Sarah Montgomery will replace Kristi Geris as the HCP Hatchery Committees Support Staff by September 2015; therefore, Montgomery was added to the HCP Hatchery Committees email distribution lists and given administrative access to the HCP Hatchery Committees Extranet Site.

B. Next Meetings (John Ferguson)

The next scheduled Coordinating Committees meeting is on July 28, 2015, and it will be held by conference call.

The August 25 and September 22, 2015, meetings will be held by conference call, in Eastern Washington, or in person at the Radisson Hotel in SeaTac, Washington, as is yet to be determined.

List of Attachments

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| Attachment A | List of Attendees |
| Attachment B | Estimation of Survival and Run Timing of Adult Spring/Summer Chinook from the Columbia River Estuary to Bonneville Dam |
| Attachment C | Corrected Memorandum Comparing Juvenile Survivals of Spring Chinook Salmon, Coho Salmon, and Steelhead Released from Winthrop NFH |
| Attachment D | CRITFC's Proposed Scheduling for Sockeye Salmon Sampling at Wells Dam In 2015 |

Attachment A
List of Attendees

Name	Organization
John Ferguson	Anchor QEA, LLC
Kristi Geris	Anchor QEA, LLC
Tracy Hillmant†	BioAnalysts, Inc.
Lance Keller*	Chelan PUD
Tom Kahler*	Douglas PUD
Scott Carlon*	National Marine Fisheries Service
Michelle Rub	National Marine Fisheries Service
Jim Craig*	U.S. Fish and Wildlife Service
Jeff Korth*	Washington Department of Fish and Wildlife
Kirk Truscott*††	Colville Confederated Tribes

Note:

* = Denotes Coordinating Committees member or alternate

† = Joined by phone for the Hatchery and Tributary Committees Update

†† = Joined by phone
