

## Memorandum

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

Date: October 25, 2017

From: John Ferguson, HCP Coordinating Committees Chairman

cc: Kristi Geris

**Re: Final Minutes of the September 26, 2017, 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 September 26, 2017, from 10:00 to 11:30 a.m. Attendees are listed in Attachment A to these conference call minutes.

### Action Item Summary

- Chelan PUD will provide a Rocky Reach Dam large unit repair update during the HCP Coordinating Committees meeting on October 24, 2017 (Item I-C).
- Kristi Geris will coordinate with Tracy Hillman and will notify the HCP Coordinating Committees of the date the HCP Hatchery Committees plan to tour the new Wells Fish Hatchery (tentatively scheduled for November 2017; Item II-A).
- Lance Keller will evaluate how well the percentage of the fish run covered by annual spill based on daily fish bypass index counts, which is the current approach used to estimate the percentage, compares to the percentage estimated using detections of passive integrated transponder (PIT)-tagged fish passing through the juvenile fish bypass system at Rocky Reach Dam (Item III-A).
- Douglas PUD will present Pacific Lamprey and salmonid count data for the time period when Lamprey Operations were implemented at Wells Dam (September 1 through September 30, 2017) during the HCP Coordinating Committees meeting on October 24, 2017 (Item IV-A).
- Kristi Geris will contact Mackenzie Gavery (Postdoctoral Research Associate, University of Washington/National Oceanic and Atmospheric Administration [NOAA] Northwest Fisheries Science Center) to confirm a 10:00 a.m. start time to present her epigenetics research during the HCP Coordinating Committees meeting on October 24, 2017 (Item V-B). (*Geris contacted Gavery, who confirmed she can present at the proposed 10:00 a.m. start time.*)
- Kristi Geris will coordinate with Tracy Hillman and will notify the HCP Coordinating Committees of the WebEx and call-in number to attend a presentation by Barry Berejikian (NOAA Northwest Fisheries Science Center) regarding his ongoing research on steelhead in Hood Canal and how it might apply to steelhead hatchery issues in the Twisp River, during the HCP Hatchery Committees meeting on October 18, 2017 (Item V-B). (*Sarah Montgomery*

*distributed the agenda with this information to the HCP Coordinating Committees on October 17, 2017.)*

- The HCP Coordinating Committees meeting on October 24, 2017, will be held **in-person** at the Grant PUD office in Wenatchee, Washington (Item V-B).

## Decision Summary

- There were no HCP Decision Items approved during today's conference call.

## Agreements

- There were no HCP Agreements discussed during today's conference call.

## Review Items

- Sarah Montgomery (HCP Hatchery Committees Support Staff) sent an email to the HCP Coordinating Committees on September 15, 2017, notifying them the Draft 2017 Rock Island and Rocky Reach Fish Spill Program Report is available for review. Edits and comments on the report are due to Lance Keller by Monday, October 16, 2017 (Item III-B).

## Finalized Documents

- There are no documents that have been recently finalized.

## 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. Lance Keller removed the Rock Island Powerhouse Maintenance Update, because no updates are available at this time. Keller said Chelan PUD will present updates on the maintenance to the HCP Coordinating Committees when key updates and information become available.

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

The HCP Coordinating Committees reviewed the revised draft August 22, 2017 meeting minutes. Kristi Geris said a third revised version of the minutes were distributed to the HCP Coordinating Committees prior to the conference call on September 26, 2017. She said new revisions were from Tom Kahler, which are tracked in redline strikeout, and mainly applied to the Aquatic Settlement Work Group (SWG) Lamprey Operations Statement of Agreement (SOA) discussion. Geris said there was also one other revision regarding a comment by Mike Tonseth under the HCP Hatchery

Committees update, which Tonseth clarified. HCP Coordinating Committees members present approved the August 22, 2017 meeting minutes, as revised.

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

Action items from the HCP Coordinating Committees meeting on August 22, 2017, and follow-up discussions, were as follows. (*Note: italicized text corresponds to agenda items from the meeting on August 22, 2017*):

- *Bob Rose will coordinate internally to develop and provide a Yakama Nation (YN) HCP Representation Designation document for distribution to the HCP Coordinating Committees (Item I-C).*

Rose provided a designation letter to Kristi Geris following the HCP Coordinating Committees meeting on August 22, 2017, which Geris distributed to the HCP Coordinating Committees on August 23, 2017.

- *Kristi Geris will coordinate with Tracy Hillman and Sarah Montgomery to obtain meeting and WebEx information for Jeff Jorgensen's (NOAA Northwest Fisheries Science Center) presentation to the HCP Hatchery Committees on September 20, 2017, on a life-cycle model for Wenatchee River spring Chinook salmon, which Geris will distribute to the HCP Coordinating Committees (Item I-C).*

Montgomery distributed this information, as described in the agenda for the HCP Hatchery Committees meeting on September 20, 2017, to the HCP Coordinating Committees on September 19, 2017.

- *Chelan PUD will provide a Rocky Reach Dam large unit repair update during an HCP Coordinating Committees meeting in late-summer 2017 (Item I-C).*

This action item will be carried forward and discussed during the HCP Coordination Committees meeting on October 24, 2017.

- *John Ferguson will provide the paper, "The evolutionary basis of premature migration in Pacific salmon highlights the utility of genomics for informing conservation," by Daniel Prince et al., to Kristi Geris and Tracy Hillman for distribution to the HCP Coordinating and Hatchery Committees (Item II-A).*

Ferguson provided the paper to Geris and Hillman following the HCP Coordinating Committees meeting on August 22, 2017, which Hillman distributed to the HCP Hatchery Committees that same day and Geris distributed to the HCP Coordinating Committees on August 23, 2017.

- *Tom Kahler will discuss internally the feasibility to implement a temporary 1.0-foot fishway-entrance head differential from 22:00 to 04:00 daily during September 2017 to improve Pacific Lamprey passage at Wells Dam ("lamprey operations"), in 1- or 2-day blocks (Item IV-A).*

Kahler confirmed Wells Dam can accommodate the 2-day block design for head differentials at the fishway entrances, as distributed to the HCP Coordinating Committees by Kristi Geris on August 25, 2017.

- *Anchor QEA will coordinate with Douglas PUD and the Aquatic Settlement Work Group (Aquatic SWG) regarding the Wells HCP Coordinating Committee discussion and HCP Decision about the Aquatic SWG Lamprey Operations SOA (Item IV-A).*

The Aquatic SWG convened a conference call on August 28, 2017, to discuss the HCP Decision about the Aquatic SWG Lamprey Operations SOA.

- *Chelan PUD will provide a Rock Island Dam Powerhouse 1 Turbine Units B1 to B4 Rehabilitation Fact Sheet to Kristi Geris for distribution to the HCP Coordinating Committees (Item V-A).*

Lance Keller provided the rehabilitation work submittal to Geris on August 23, 2017, which Geris distributed to the HCP Coordinating Committees that same day.

- *Anchor QEA will contact Mackenzie Gavery regarding possibly presenting her epigenetics research during the HCP Coordinating Committees meeting on October 24, 2017 (Item VI-B).*

Gavery confirmed she can present her research in-person during the HCP Coordinating Committees meeting on October 24, 2017.

## II. HCP Tributary and Hatchery Committees Update

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

Tracy Hillman reported that the HCP Tributary Committees did not meet in September 2017 and will next meet on October 12, 2017, if necessary.

Hillman updated the HCP Coordinating Committees on the following actions and discussions that occurred during the HCP Hatchery Committees meeting on September 20, 2017:

- *DECISION: Chelan PUD Coho Salmon Mitigation SOA:* Chelan PUD requested approval of their Coho Salmon Mitigation SOA; however, the Colville Confederated Tribes (CCT) asked for additional time to discuss the SOA internally, as well as with the YN. The CCT may propose revisions to the SOA for review during the HCP Hatchery Committees meeting on October 18, 2017.
- *Tumwater Feasibility Study for Pacific Lamprey Update:* Chelan PUD has been working on a feasibility study for Pacific lamprey passage at Tumwater Dam. The contractor is currently addressing questions received from Chelan PUD, and an updated study will be available for review to the fish forums and HCP Coordinating Committees in October 2017. Hillman added that Chelan PUD and the Washington Department of Fish and Wildlife (WDFW) observed adult Pacific lamprey passing the count window at Tumwater Dam. Hillman said about 14 adults had been observed as of September 20, 2017. Jim Craig asked about fish management at the dam,

specifically, if managers were routing passage through the denil. Hillman said these fish passed during non-trapping times; however, WDFW does have video of adult Pacific lamprey passing via the denil and trapping structure. John Ferguson asked about a total count to date, but Hillman said he is uncertain about counts after September 20, 2017. Hillman also noted that the YN had been conducting Pacific lamprey translocation efforts in the Wenatchee River basin the week of, and the week preceding, the HCP Hatchery Committees meeting.

- *Transition Plan for Douglas PUD Hatcheries:* Douglas PUD notified the HCP Hatchery Committees that they terminated their contract with WDFW to operate the Wells and Methow fish hatcheries. The termination includes a 90-day transition period per the contract, which may be extended. During the meeting, parties to the HCPs made it clear they would like to see a longer transition period. Douglas PUD indicated they are not opposed to a longer period (e.g., 120 days); however, no determination to extend the transition period has been made. Douglas PUD is in the process of hiring new hatchery staff and drafting a transition plan. The Wells HCP Hatchery Committee indicated they want Douglas PUD to coordinate with the Committee during the transition. Douglas PUD will continue contracting with WDFW for hatchery monitoring and evaluation (M&E) work.
- *Wells Fish Hatchery Modernization:* The Wells Fish Hatchery Modernization project is nearly complete. Douglas PUD extended the contract end date past August 31, 2017, so the contractor can finish a few minor items. The HCP Hatchery Committees will visit the facility this fall. Ferguson said Kristi Geris will coordinate with Hillman and will notify the HCP Coordinating Committees of the date the HCP Hatchery Committees plan to tour the new Wells Fish Hatchery. Hillman noted that this will likely take place in November 2017.
- *U.S. Fish and Wildlife Service Bull Trout Consultation Update:* The U.S. Fish and Wildlife Service (USFWS) completed edits and responses to comments on the Biological Opinion (BiOp) for the Wenatchee subbasin programs. The BiOp is now undergoing USFWS internal review.
- *National Marine Fisheries Service Consultation Update:* The National Marine Fisheries Service (NMFS) intends to finish the proposed action for the Upper Columbia River unlisted summer Chinook salmon programs. NMFS is now incorporating edits and comments received from reviewers.
- *PRESENTATION: Wenatchee Spring Chinook Salmon Life Cycle Modeling:* Jeff Jorgensen presented the Wenatchee spring Chinook salmon life-cycle model, which is a tool that NOAA and their collaborators are developing to understand the effects of habitat, predation (avian and pinnipeds), dams, hatchery, harvest, and climate on salmon survival. The model is a complex matrix model, which tracks salmon survival and abundance throughout their life cycle. The hatchery component of the model includes proportionate natural influence (PNI) targets, proportion of hatchery-origin spawners, hatchery-origin recruits, and natural-origin recruits. Based on results from the relative reproductive success studies, the model applies a

progeny discount depending on PNI scores. Jorgensen shared results of different model runs, and among the scenarios modeled, hatcheries, pinniped predation, and ocean conditions had relatively large effects on salmon survival and quasi-extinction risk. Jorgensen concluded by talking about further additions to the model, including juvenile Chinook salmon survival in Lake Wenatchee, egg-to-fry and fry-to-parr survival, and developing a better model to predict continuous stream temperatures in space and time. Hillman said the HCP Hatchery Committees provided Jorgensen with feedback, and they may ask Jorgensen to run a few scenarios to help the Committees with their studies. Ferguson asked if this Wenatchee spring Chinook salmon life-cycle model can be considered as up and running, calibrated, and usable now, and Hillman said it is. Hillman said NOAA is still working to improve the model, but the model is already producing results. Hillman also noted that the development of the Wenatchee model has more data available than other models in other river basins, as a result of PUD-funded hatchery M&E programs and Bonneville Power Administration-funding.

- *Draft 2017 Hatchery M&E Plan for PUD Hatchery Programs Update:* The HCP Hatchery Committees are currently reviewing revisions to the Hatchery M&E Plan, including changes to the adaptive management and Non-Target Taxa of Concern sections. Hillman is currently drafting an appendix to the Hatchery M&E Plan titled, "Estimation of Carrying Capacity." The HCP Hatchery Committees will review the appendix during the HCP Hatchery Committees meeting on October 18, 2017. The Committees hope to finalize the plan and share it with the Independent Scientific Advisory Board.
- *Next meeting:* The next meeting of the HCP Hatchery Committees will be on October 18, 2017.

### III. Chelan PUD

#### A. Draft 2017 Rock Island and Rocky Reach Fish Spill Program Report (Lance Keller and Thad Mosey)

Lance Keller said Thad Mosey (Chelan PUD Fish Biologist and Spill Coordinator) will present the Draft 2017 Rock Island and Rocky Reach Fish Spill Program Report (Attachment B), which was distributed to the HCP Coordinating Committees by Sarah Montgomery on September 15, 2017.

#### Spring Spill – Rock Island

Mosey said the juvenile fish bypass system at Rock Island Dam was operational on March 29, 2017. He said over-under gates were installed, which are designed to allow full river flow to pass through the gates. He said, as in previous years, he expected to observe an increase in sockeye salmon numbers once the bypass was operational; however, this was not the case this year with sockeye salmon, Chinook salmon, or steelhead. He said numbers eventually did increase by April 14, 2017, and upstream hatchery releases were scheduled to start April 15, 2017. He said based on this information, he felt confident to start spring spill on April 17, 2017. Mosey said he kept in touch with

the bypass crew over the weekend preceding April 17, 2017, and numbers increased significantly. He said to ensure all fish spill gates were being employed, he had the operators incorporate six notch spill gates. He said even with hydraulic spill, spring spill at Rock Island Dam officially started on April 16, 2017, and he noted that the percent of run targets were met. He said if spring spill had started on April 17, 2017, as initially estimated, the percent of run with spill targets would have been missed. He then reviewed the spring spill data for Rock Island Dam presented in Attachment B.

### Summer Spill – Rock Island and Rocky Reach

Mosey said in early May 2017, Chelan PUD began monitoring daily counts of subyearling Chinook smolts at both the Rock Island and Rocky Reach Juvenile Fish Bypass Facilities. He said Chelan PUD was also coordinating with the CCT and Douglas PUD regarding upcoming fish releases. Mosey recalled that the 2017 Rock Island and Rocky Reach Fish Spill Plan states, "summer spill will start at midnight no later than the day on which the estimated 1-percentile passage point is reached." He said on May 25, 2017, it appeared that counts of subyearlings at both facilities had reached 1%; therefore, summer spill at Rock Island Dam and Rocky Reach Dam officially started on May 26, 2017.

Mosey reviewed the summer spill data for Rock Island and Rocky Reach dams presented in Attachment B. He said summer spill operations at Rock Island and Rocky Reach dams ended on August 18 and 25, 2017, respectively, after meeting the criteria of covering 95% of the subyearling outmigration and subyearling index counts from the corresponding juvenile bypass sampling facility were 0.3 percent of the cumulative run for 3 of 5 consecutive days.

Mosey said, despite the hydraulic spill at Rock Island Dam from March to late-June 2017, the spring and summer spill programs at Rock Island and Rocky Reach dams went smoothly this year with regard to monitoring numbers and coordination with dam operators.

Kirk Truscott asked if there is a comment period open for this report. Kristi Geris said based on the distribution date, a 30-day comment period means edits and comments on the report are due to Keller by Monday, October 16, 2017.

Truscott asked if the percentage of the fish run covered by annual spill is based on daily fish bypass index counts. Keller said this is correct. Truscott noted that there is also a database of PIT-tagged fish passing through the juvenile fish bypass system at Rocky Reach Dam. Keller said this is also correct. Truscott asked, how well do these two data sources correspond to one another? Keller said he does not have this information available at this time; however, he will evaluate the data and provide a response to Geris for distribution to the HCP Coordination Committees.

## IV. Douglas PUD

### A. Wells Dam Fishway Operations for Pacific Lamprey Update (Tom Kahler)

Tom Kahler said he just emailed Pacific lamprey data from Wells Dam showing block comparisons (Attachment C) to Kristi Geris, which Geris forwarded to the HCP Coordinating Committees during the meeting on September 26, 2017. Kahler said 4 of 5 blocks<sup>1</sup> have been implemented to date<sup>2</sup>. He said the Pacific lamprey run at Wells Dam has already peaked and is now tapering off.

Kahler said most fish seem to be passing between 00:00 and 10:00. He said there are some differences in passage from the 1-foot to 1.5-foot head differentials, with more fish tending to be counted under the normal 1.5-foot head operation; however, the differences were subtle. He noted that around 05:00 to 06:00 passage is increasing, and then drops at the 1-foot head differential, but peaks at the 1.5-foot head differential. He recalled that if there seemed to be an alarming interference with passage, these block operations would be discontinued; however, he said nothing alarming has been observed to date.

John Ferguson agreed with Kahler's comments, and added that the emails exchanged within the Aquatic SWG are reporting similar findings. Ferguson said there does not seem to be an apparent pattern between block and normal operations; although, he did note a slight difference in the 06:00 to 08:00 hour period.

Kahler said civil twilight during September is around 20:00 to 21:00. He said if darkness is a cue to start entering and ascending the fish ladder, and if what was concluded from the radio-telemetry studies is accurate (i.e., under the 1-foot head differential fish more readily passed through the lower portion of the fish ladder), then one would expect to see a pattern of more fish passing the count windows in hours 01:00 to 04:00 during the 1.0-foot operations because those fish would have entered the fishways during the normal operating differential (hours 20:00-22:00), but would have more readily ascended the lower ladder once the 1.0-foot-differential operations commenced at 22:00 hours.

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<sup>1</sup> Note: A block equals three consecutive days where the Wells Dam fishway entrances are operated at a head differential of 1.0 foot (versus the usual 1.5 foot), from 22:00 to 04:00 daily. On days between the blocks, the fishway entrances are operated at a normal head differential of 1.5 foot.

<sup>2</sup> Note: Block 1 = September 1 to 3; Block 2 = September 7 to 9; Block 3 = September 13 to 15; Block 4 = September 19 to 21; and Block 5 = September 25 to 27, 2017.



Kirk Truscott said about 260 Pacific lamprey passed Wells Dam, and he asked how this compares to the overall conversion between Rocky Reach and Wells dams. Kahler said there were about 23,000 Pacific lamprey counted at Rocky Reach Dam, so the conversion is miniscule (about 0.01 percent).

Kahler said Douglas PUD will present Pacific Lamprey and salmonid count data for the time period when Lamprey Operations were implemented at Wells Dam (September 1 through September 30, 2017), during the HCP Coordinating Committees meeting on October 24, 2017.

### **B. Transition Plan for Douglas PUD Hatcheries (Tom Kahler)**

Tom Kahler said Douglas PUD already contacted and has had conversations with the individual Wells HCP Coordinating and Hatchery Committees representatives prior to this conference call. He said this agenda item was requested by Bob Rose, who is not in attendance today. Kahler said he is open to further discuss anything the Committee members would like to hear about.

John Ferguson asked for an update on the Douglas PUD transition plan. Kahler said the transition plan is currently under internal review and it should be available for distribution by the end of the week. He said Douglas PUD provided the transition plan's table of contents to the HCP Hatchery Committees for review. He said Douglas PUD asked the HCP Hatchery Committees to let them know if the table of contents is missing anything. He said no comments have been received to date. He said if no comments are received, Douglas PUD plans to proceed with the plan, as written.

Kahler said the hiring process is underway for hatchery staffing, with the idea to have hatchery supervisors in place first, and have them fully engaged in filling the rest of the positions with the best qualified staff.

Kahler said Douglas PUD plans to continue their current hatchery M&E contract with WDFW. He said the idea is to have Douglas PUD and WDFW M&E personnel continuing to work together in the same roles they have had, with potentially additional roles arising. He said maintaining the hatchery M&E contract with WDFW is very practical. He said this is a role WDFW has already played, and they have a very intimate knowledge of the M&E components. He said Douglas PUD has had a great working relationship with these folks.

Ferguson asked about extending the 90-day transition period to 120 days. Kahler said 90 days is stipulated in the contract, which is why Douglas PUD is operating under this timeframe. He said Douglas PUD is also open to extending the timeframe. He said there is a lot to accomplish in 90 days, which is doable; however, additional time may be more comfortable. He said he is unaware of an offer from WDFW for a longer transition period.

Chad Jackson said WDFW looks forward to seeing Douglas PUD's transition plan at the end of this week. Jackson said WDFW has been waiting on this plan before appointing a point of contact for the

transition and proposing an extended time period. Kahler said he did not believe the transition plan is a prerequisite for establishing a point person; however, Douglas PUD will conform, as needed.

Ferguson invited Commissioner Dave Graybill (WDFW) to ask questions and provide his perspectives. Commissioner Graybill said WDFW is eager to work with Douglas PUD. He said the concern is that WDFW does not yet have enough details to fully understand the process. He said the Wells facility and the HCP Plan species being reared there are precious resources. He said WDFW will be watched very carefully, and this transition needs to be executed carefully. He said he is glad to hear that Douglas PUD, from his perspective, agrees this is not a 90-day process. He said once WDFW has received Douglas PUD's transition plan, a point of contact for WDFW will be established.

Ferguson asked if WDFW has been discussing who might be the person to assign the point of contact after receiving the transition plan. Jackson said a specific staff member has not yet been identified. He said there are a number of potential staff persons; however, selecting the most appropriate person depends on the details (e.g., how much work this will entail). He said WDFW is already thinking about this, but needs more details on the transition plan.

## V. HCP Administration

### A. Extranet Access for Sarah Montgomery (John Ferguson)

John Ferguson said Sarah Montgomery was given administrative access to the HCP Coordinating Committees Extranet site from Julene McGregor (Douglas PUD Information Systems Staff), in order to provide back-up assistance for Kristi Geris. Geris recalled that historically, administrative support staff have been added to email distribution lists and given extranet access without HCP Coordinating Committees approval. Ferguson asked if the HCP Coordinating Committees had any concerns about this, and no concerns were expressed.

### B. Next Meetings

The next scheduled HCP Coordinating Committees meeting is on October 24, 2017, to be held in-person at the Grant PUD Wenatchee Office in Wenatchee, Washington.

John Ferguson recalled that Mackenzie Gavery accepted the invitation to present her epigenetics research during the HCP Coordinating Committees meeting on October 24, 2017. The HCP Coordinating Committees proposed a 10:00 a.m. start time for Gavery's presentation, with the monthly HCP Coordinating Committees meeting to follow. Kristi Geris will contact Gavery to confirm a 10:00 a.m. start time will work for her. *(Geris contacted Gavery, who confirmed she can present at the proposed 10:00 a.m. start time.)*

Tom Kahler said the HCP Hatchery Committees invited Barry Berejikian (NOAA Northwest Fisheries Science Center) to discuss his ongoing research on steelhead in Hood Canal and how it might apply to steelhead hatchery issues in the Twisp River, during the HCP Hatchery Committees meeting on October 18, 2017. Kahler suggested that HCP Coordinating Committees members also attend the meeting, if interested. Geris will coordinate with Tracy Hillman and will notify the HCP Coordinating Committees of the WebEx and call-in number to attend a presentation by Berejikian.

The November 28, 2017, December 26, 2017, and January 23, 2018, 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 Draft 2017 Rock Island and Rocky Reach Fish Spill Program Report

Attachment C Pacific lamprey data from Wells Dam showing block comparisons

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

<b>Name</b>	<b>Organization</b>
John Ferguson	Anchor QEA, LLC
Kristi Geris	Anchor QEA, LLC
Tracy Hillman	BioAnalysts
Lance Keller*	Chelan PUD
Thad Mosey	Chelan PUD
Tom Kahler*	Douglas PUD
Scott Carlon*	National Marine Fisheries Service
Jim Craig*	U.S. Fish and Wildlife Service
Chad Jackson*	Washington Department of Fish and Wildlife
Patrick Verhey*	Washington Department of Fish and Wildlife
Commissioner Dave Graybill	Washington Department of Fish and Wildlife
Mike Tonseth	Washington Department of Fish and Wildlife
Kirk Truscott*	Colville Confederated Tribes

Notes:

\* Denotes HCP Coordinating Committees member or alternate