

MEMORANDUM FOR THE RECORD

Subject: FINAL minutes for the 24 June 2020 WFPOM meeting.

The meeting was held via conference call. In attendance:

Last	First	Agency	Email
Buccola	Norm	NWP-ENC	Norm.L.Buccola@usace.army.mil
Couture	Ryan	ODFW	ryan.b.Couture@state.or.us
Gallion	Darren	NWP-FFU	Darren.G.Gallion@usace.army.mil
Garletts	Doug	NWP-ODV	Douglas.F.Garletts@usace.army.mil
Grenbemer	Greg	ODFW- Marion Forks/ Minto	Greg.A.Grenbemer@state.or.us
Helms	Chad	NWP-ODV	Chad.K.Helms@usace.army.mil
Hudson	Mike	USFWS	michael_hudson@fws.gov
Jundt	Melissa	NMFS	melissa.jundt@noaa.gov
Khan	Fenton	NWP-PME	Fenton.O.Khan@usace.army.mil
Kovalchuk	Erin	NWP-ODT-F	Erin.H.Kovalchuk@usace.army.mil
Kremers	Kurt	ODFW	kurt.kremers@state.or.us
Mackey	Tammy	NWP-ODT-F	Tammy.M.Mackey@usace.army.mil
Madson	Patricia	NWP-FFU	Patricia.L.Madson@usace.army.mil
Mullan	Anne	NMFS	Anne.Mullan@noaa.gov
Neuenhoff	Rachel	NWP-PME	Rachel.D.Neuenhoff@usace.army.mil
Pierce	Todd	NWP	Todd.M.Pierce@usace.army.mil
Reis	Kelly	ODFW	Kelly.E.Reis@state.or.us
Sachs	Steven	NWP-FFU	Steven.A.Sachs@usace.army.mil
Schwabe	Lawrence	Grand Ronde Tribe	Lawrence.Schwabe@grandronde.org
Scullion	Mary Karen	NWP-ENC	Mary.K.Scullion@usace.army.mil
Wertheimer	Robert	NWP-ODT -FFU	Robert.H.Wertheimer@usace.army.mil
Ziller	Jeff	ODFW	Jeffrey.S.Ziller@state.or.us

1. Final decisions or recommendations made at this meeting.

- 1.1. May meeting minutes were approved.
- 1.2. 20WVP08 Integrate Natural Origin Chinook Salmon Adults into North Santiam and McKenzie broodstock- WFPOM concurred.

2. The following documents are provided or discussed at this meeting. All documents can be found at: http://pweb.crohms.org/tmt/documents/FPOM/2010/Willamette_Coordination/

- 2.1. Agenda, Fish Passage O&M coordination team
- 2.2. Coordination forms (MOC/MFR)

3. Action Items

- 3.1. [June 2020] Willamette Chinook Salmon Database - ACTION: Mackey will follow up with Eppard on the meeting minutes.
- 3.2. [June 2020] Big Cliff TDG spike - ACTION: Mackey/Walker will write an MFR on the Big Cliff spill situation on 20 June.

3.3. [May 2020] Willamette Chinook Salmon Database - ACTION: Reis will look into the cost of database management. *Status: While Reis was tracking down the right person, she found out that there was a meeting between ODFW and the COE about this topic. Reis asked if there were meeting minutes. Mackey said that the meeting was hosted by planning. ACTION: Mackey will follow up with Eppard on the meeting minutes.* Reis doesn't need to follow up with a cost estimate.

4. Updates

4.1. North Santiam

4.1.1. Marion Forks Hatchery- Fish health is going well. Marking will start after 4th of July. Both weirs were installed in Horn and Marion Creek.

4.1.2. Minto Fish Facility – Collections are steady; outplanting starts today. The fish are going to be released in the North Santiam. FFU may go up to join them. The pipe wrap went well on the straight runs but binds up on the corners. The 90 degree corner will be difficult and they are doing a test today. Next week there will be an update.

4.1.2.1. Maintenance activities needed or recently completed – The SWS were cleaned. Recirculating pond pump was fixed, the presort fingerling weir was complete, the presort crowder reverse was fixed and the air blast valve closure was fixed. The recirculating pump tripped and the crowder trolley drive motor was not fixed. Grenbemer said that the trolley drive fixed itself. The AWS continues to work.

4.1.2.2. Minto Juvenile Fish Release Pipe – next month there will be an update.

4.2. South Santiam

4.2.1. South Santiam Hatchery- fin marking will start soon. Fish production is going well.

4.2.2. Foster Fish Facility – Last week, 997 CHS were collected, totaling 1249 for season and 93 non-marked were put upstream. Pierce asked if this is typically when fish would have arrived. Couture said that since Foster fish facility was constructed, each year has been different. Usually, more than 50% of brood collection should be met by this point.

4.2.2.1. Maintenance activities needed or recently completed – An AWS pump tripped two weeks ago and has been fixed. The holding pond transducer was fixed. The hopper hoist will be completed July 14.

4.2.2.2. Ladder and Adult Collection Issue – see below 4.2.4.

4.2.3. River Bend Adult Release Site – The pipe has been moved and they should be able to get through the season now. No severe erosion occurred over the winter but long term use is still unclear unless improvements are made. This is a critical release location for CHS and STW.

4.2.4. Foster Spill Operations – Green Peter spill started at the end of April to validate the USGS model. The Foster spill started in May. BPA had requested more spill in the Willamette projects so they were able to put out plenty of spill. Additional temperatures sensors were installed. Boyd saw increased temperatures in the ladders. The fish weir operation was going to start in June but because of the BPA spill, it did not. The warm water was a success and fish were observed in the tailrace but they were attracted to the spill not the ladder. Foster had a big power outage including the AWS. The AWS takes tailrace water and adds it to the ladder for attraction flow. Once the AWS was off, the fish that were in the tailrace started piling up in the ladder. Since there was no cooler AWS water, the warm water from the forebay flowed down the ladder. Once the AWS was functioning again, Khan wanted to do an AWS test. Last week, this test was done but there were not a lot of fish in the tailrace plus BPA spill started again. The results of the overall spill program were very informative for the PDT. Buccola and Royer will write up a summary of the

results. The GP spill is over. BPA might still ask for spill but all tests are done. Fish returns have slowed down. The river might be cooling back down since there is no more spill. The fish weir will be turned on this week. There are only a few fish milling around the tailrace. Mullan asked if the weir is going in. Khan said that the fish weir is installed and will be turned on next week. The weir flow doesn't warm up the ladder just downstream temperatures. Khan is in regular communication with Boyd. If there is a problem with fish not entering the ladder then they can try turning off the AWS. Khan pointed out that the AWS fix would be only for this year because the PDT is tasked with fixing the whole adult ladder problem. Mullan said that she would like to see how the timing of the fish has aligned with the major flow changes.

4.3. McKenzie

4.3.1. McKenzie Hatchery

4.3.1.1. Water Supply – the issues are still ongoing. There is only ~ 10-12cfs through the fish ladder. They have kept 50K juveniles for scent attraction but no fish have entered the trap. Mackey said that the modification to the contract for the sorter has been sent to ODFW for signatures.

4.3.2. Cougar Fish Facility- about 20 fish have returned, double floy tagged and released downstream. One Bull Trout has returned for the season. A pump is out of service and the parts are on order. The pump outage is not affecting the operations of the facility. Ziller asked if a second pump went out if it would affect the operation. Yes, the operation requires two pumps and they have three. Repairing the pump is a high priority.

4.3.2.1. Maintenance activities needed or recently completed.

4.3.3. Leaburg Hatchery – Last week, 69 fish were collected, 120 on 23 June and about 75 on 24 June. Fish started returning on Sunday night. They processed fish at McKenzie and will be held at Leaburg. The numbers are quite low compared to last year. More fish have started showing up at the dam as well. Fin marking started today. All juveniles will go to Leaburg. Only a couple of fish are being held in the holding pond. Fish health is good.

4.4. Middle Fork

4.4.1. Willamette Hatchery – Fish health is good; fin marking is wrapping up.

4.4.2. Dexter Fish Facility – Almost 1,000 fish were collected last week for a season total of 2,210. Half the fish are held at Foster as a backup related to the high rate of pre-spawn mortality typically seen in the adult holding pond at Willamette Hatchery. The other half are being held at Willamette Hatchery. BPA had requested no generation last week for a couple of days so they had to transition to spillway flow. Pierce wanted to confirm the spill pattern operation. Ziller said that there was a configuration that was better for anglers or fish collection but he couldn't recall. Ziller asked if we anticipate spilling more. Scullion said that they are generating now but it is on a day by day basis. The water is above the elevation to use the RO. Each spill gate needs to be open to at least the minimum gate opening before splitting can occur. Currently, they do not have the capacity to split gates. Ziller asked why the Willamette is spilling so much. A lot of water is coming down the Columbia and the dams are coming up to the spill caps. Willamette is asked to spill to prevent going over the caps on the Columbia. Pierce said that there was a planned power swap that did not cause any fish problems.

4.4.2.1. Maintenance activities needed or recently completed.

4.4.3. Fall Creek Fish Facility – They have passed 586 CHS upstream for the season and 64 STW. The run was three weeks early but is slowing down now. Fewer marine mammal injuries have been observed. They have not collected any Pacific Lamprey

this year. Maintenance is ongoing. Ziller asked if all fish are being released at the same site and if the fish are clumping together. Helms said that yes, they are released at the same site and no, the fish have been moving out quickly. Mullan asked about typical timing. Usually 65-80% of the run has passed by mid-June. It is possible for another slug of fish to show up but the numbers are really slowing down. Ziller said that back in 1985, they had 700 fish at Fall Creek.

4.4.3.1. Maintenance activities needed or recently completed.

4.5. Bull trout and Oregon Chub (Taylor) – No update.

4.6. WFFDWG/Research updates (Neuenhoff) – RME is in planning cycle for FY21; no WFFDWG updates.

4.7. Water Quality updates (Buccola) – Last week, there was increased TDG downstream of Big Cliff due to high reservoirs and BPA requesting no generation. Scullion corrected and said that the Corps was within the range of spill and generation. The percentage was about 60/40 on spill to generation. With the predicted warm weather, Scullion said that they have to watch generation throughout the day. Mullan noticed that the drop in generation during the day coincided with the increase in TDG. The generation followed the normal power peaking schedule. Mullan said that the pattern of power producing looked different over the last couple of weeks. Buccola said that the increased TDG was because the overall flow increased with a higher pool. Mullan asked if multiple gates can be opened since there are higher flows. Scullion looked up the data from over the weekend. One gate opening is almost 1200cfs. On 6/20, the spill flow ranged from 900 to 1400cfs which is 1 to 1 ¼' gate opening. The concerns is that there are a lot of redds downstream. TDG at Minto had a high of 104 and is now ranging 102-103. Right now, spill is supposed to be 40-60% of the flow but if TDG is a priority then Scullion wants to know so she can plan to spill less. Mullan said under high spill conditions then she would prefer spilling over two gates. On 6/20, TDG spiked to 118. Since the spill range was from 900-1400, they didn't have had the capability to move to two gates. The flow was within the one foot opening. Scullion will be scheduling minimum flow (1200) so splitting gates is not an option. Detroit spill during the day may be affecting the TDG below BC even when BC is generating. When the outflow is over 2500 then the flow can be split. Mullan asked if the gates can be split on the fly. Scullion said that yes, they would schedule 3 or 4 hours of higher spill with split gates.

There are a few algae blooms that they will sample for toxicity. There aren't any toxic blooms that they are tracking in the Willamette right now.

4.8. Flow update (S. Hart)

4.9. Pinniped Update (ODFW) – Reis is not following up since it is not an issue right now. Wertheimer said the same for BON; no sea lions present.

4.10. BPA updates – no update

5. HGMP BiOp T&Cs

5.1. Production and Biometrics – included in the hatchery production contracts.

5.2. Use of natural origin broodstock.

5.2.1. MOC: 20WVP08 Integrate Natural Origin Chinook Salmon Adults into North Santiam and McKenzie broodstock- **WFPOM concurred.**

5.3. Bennett Counts (ODFW) – Minto- 435 non-marks, 847 clipped CH and 24 jacks. Bennett - 735 non marks, 2193 Clipped CH and 32 jacks. STS -152 at Bennett and 111 at Minto. Garletts said that WFPOM website has a place for counts. Mackey said that either we can report every month or add link to the minutes. Wertheimer said that we did discuss this topic last month and we decided on a link. Reis would prefer a link. This agenda item will be if there are issues with the counts not the counts themselves. Bennett counts will be grayed out.

5.4. Lebanon Counts (USACE) – Two concurrent actions are ongoing. First, FFU is trying to figure out the feasibility of using their underwater cameras to provide accurate counts. FFU

installed the equipment a couple of weeks ago. They tried to angle the cameras to the notches and orifices. Second, FFU has started to review the video and figure out the capture/download process. The setup is complex due to the passage routes. Jundt wanted to confirm that originally, the orifice would be blocked but now they will be videotaped. Wertheimer concurred saying that they started to make occluding devices but then concerns about authority and changing the flow in the ladder came up. FFU is trying to cover all the routes of passage with video/cameras. Next month, they should have counts and passage efficiency estimates. They are also looking at the VAKI system which is an off the shelf system. The housing is about 3x5 which work wells with the notches but not the orifice. FFU will have to work with WFFDWG because engineering services might be necessary. Galleon said that the north bank ladder might have some simpler solutions but the south ladder is complicated. They are trying to assess the situation to see if they can do the work. If a false weir needs to be installed, there would be debris issues and catwalks. Wertheimer wants to know what the precision target for counts is for management purposes. On the Columbia, there are specific count efficiencies that have to be met. Mullan said that this trial can illustrate what the capabilities FFU has and can use to predict precisions. She also suggested some counting estimates similar to what is done at the Science Center. Wertheimer said that they will determine what they can provide, what the VAKI system can provide and then develop a scope of work that they can support.

- 5.5. Leaburg Counts (EWEB/USACE) – The counts are posted online. As of Monday, 584 unmarked CH through both ladders. The counts will be updated once a week. FFU has had to take on some OM responsibilities like cleaning windows and making sure EWEB is clearing debris.
- 5.6. Reducing pHOS in the McKenzie River - Leaburg sorter – ODFW reported that the sorter has been built but they are waiting on the trailer to transport it.
- 5.7. Improving broodstock holding at Willamette Hatchery
- 5.8. Analyze steelhead genetics (ODFW)
- 5.9. Assess future effects of hatchery summer steelhead in the North and South Santiam Rivers. (ODFW)
- 5.10. Assess genetic pedigree of Chinook salmon (up to 2019 and then every five years after) – no update
- 5.11. Assess salmon spawning above federal dams
- 5.12. Adaptively manage hatchery salmon outplanting above federal dams.
- 5.13. Willamette Chinook Salmon Database. – see action items 3.1 and 3.2.
- 5.14. Three year report for NMFS SFD. Report due 2022.

6. Willamette Valley Production Contracts

- 6.1. Willamette Hatcheries option year – ODFW should see the notice of intent in about a month. The COE will then start the process of a new contract to be awarded in 2021.
- 6.2. Trout Production – The intent is to award by mid-September under a MATCO (multiple award). ODFW has submitted a letter to NOAA on the trout HGMP. Couture asked (for Kelley) when the COE is planning on submitting a letter. Mackey had a meeting with the NEPA folks because the NEPA coverage might not be up to date. Mackey said that they are working on their letter but it needs to go through the NEPA section and Office of Counsel for review before sending to NOAA.

7. Coordination/Notification forms (need concurrence/discussion)

Ongoing:

- 7.1. 20CGR01 Water supply Issues and Broodstock Collection at McKenzie Hatchery
- 7.2. 20WVP02 MOC_CHS CoastFk_LittleFallCr2020 – Ziller said that there is a lot of angst on the COE's part due to the process. Ziller was trying to make the least impact biologically to

the fish. After discussion with Kruzic, it is more risky to use the Leaburg fish rather than Willamette but he can live with the risk. ODFW is planning on releasing the fish out of Leaburg and into the Little Fall Creek in 2021. Mackey is hoping that the work on the EIS for the Willamette helps with better NEPA coverage for the hatchery program. In the future, issues like this can be addressed faster. This topic can come off the agenda but the COE is still addressing it. Ziller still thinks it is a biological concern but if NOAA gives coverage then Ziller is okay with the operation.

- 7.3. 20WVP03 MOC Mitigation Trout Release Schedule ODFW 2020 (HGMP)
- 7.4. 20FOS03 Fish Weir Summer Operations – the dates have changed and need to be updated.
- 7.5. 20GPR01 Spill Test for Foster Fish Facility Ladder Temperatures – the MOC will be updated with the correct dates.

New:

- 7.6. 20BCL03 MFR Turbine Unit Forced Outage – no comments
- 7.7. 20CGR03 MFR Cougar Dam Minimum Flow – Mullan said it was very small occurrence and thought that maybe there should be a range so an MFR doesn't have to be written and necessitate comments from agencies. Comments are not required on MFRs but agencies can comment if they want their position in writing.
- 7.8. 20DEX01 MFR Turbine Unit on Standby – Pierce said that it was not a true power outage but BPA did not want to generate. Scullion corrected saying it was a transmission outage and therefore, generation could not be made. Spill occurs during an outage but not a no load situation.
- 7.9. Mullan requested an MFR on the Big Cliff spill issue so that the region can understand what occurred. **ACTION: Mackey/Walker will write an MFR on the Big Cliff spill situation on 20 June.**

8. Fish Operations Plan: WFOP homepage:

http://pweb.crohms.org/tmt/documents/FPOM/2010/Willamette_Coordination/WFOP/

- 8.1. Fish facility inspections and reporting.

9. Task Group/PDT Updates.

- 9.1. Safety and Environmental corrections.
- 9.2. Asbestos abatement/surveys. – The results will be available after Mackey and Walker read the reports.
- 9.3. Marion Forks pipe and valves – see 4.1.2.
- 9.4. McKenzie Water Supply

Scullion said that there are station orders to the operators to split spill as appropriate. Mullan wants to know how often the split could be done – daily or weekly. The spill is scheduled hourly. Operators are present 24hrs a day and adjust the gates as needed. Scullion wanted to express that they were operating within the range of spill and generation. It was just a lower generation and higher spill. A write up will be coming out. Mullan wants to know the range and if they can adjust from real time downstream conditions.