

MEMORANDUM FOR THE RECORD

Subject: FINAL minutes for the 28 April 2021 WFPOM meeting starting at 1400 hrs.

The meeting was held via conference call. In attendance:

Last	First	Agency	Email
Bardy	David	NWP-ODV	David.M.Bardy@usace.army.mil
Budai	Chris	NWP	Christine.M.Budai@usace.army.mil
Boyd	Brett	ODFW S. Santiam	brett.h.boyd@state.or.us
Couture	Ryan	ODFW Hatch Coord.	Ryan.B.Couture@state.or.us
Ernster	Timothy	NWP-ODV	timothy.a.ernster@usace.army.mil
Garletts	Doug	NWP-ODV	Douglas.F.Garletts@usace.army.mil
Haffey	Sam	Four Peaks	shaffey@fourpeaksenv.com
Jundt	Melissa	NMFS	Melissa.Jundt@noaa.gov
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Mullan	Anne	NOAA	anne.mullan@noaa.gov
Peck	Dan	ODFW	Dan.Peck@state.or.us
Pierce	Todd	NWP-ODV	Todd.M.Pierce@usace.army.mil
Reis	Kelly	ODFW	Kelly.E.Reis@state.or.us
Sachs	Steven	NWP-ODT-FFU	Steven.A.Sachs@usace.army.mil
Spear	Dan	BPA	DJSpear@bpa.gov
Taylor	Greg	NWP-ODV	Gregory.A.Taylor@usace.army.mil
Voldbaek	Tom	NWP-ODV	Thomas.Voldbaek@usace.army.mil
Walker	Chris	NWP-ODT-F	Christopher.E.Walker@usace.army.mil
Wertheimer	Robert	NWP-ODT-FFU	Robert.H.Wertheimer@usace.army.mil
Yamen	Hoque	NWP-ENC-HR	Yamen.M.Hoque@usace.army.mil

1. Final decisions or recommendations made at this meeting.

1.1. Approval of minutes from April 7, 2021

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. [April 2021] Pierce will follow up with Detroit crew foreman about PM for recirculating motors for the Minto raceways.

3.2. [April 2021] Discuss T&C - Reducing pHOS in the McKenzie River - Leaburg sorter.
Action: Couture thinks ODFW should be able to provide update on Leaburg sorter and discuss pHOS.

3.3. [April 2021] Task group to further discuss F&W budget short fall will be scheduled in the next couple of weeks.

4. Updates

4.1. North Santiam (Couture)

4.1.1. Marion Forks Hatchery – Spring chinook smolts released. Visited N. Santiam and Breitenbush release sites (above Detroit) first time since fire. Sites are accessible for outplanting adult Spring Chinook this summer.

4.1.2. Minto Fish Facility

4.1.2.1. Maintenance activities needed or recently completed.

4.1.2.1.1. Crowder batteries replaced by Detroit maintenance crew.

4.1.2.1.2. FWS Motor bearing replacements w/in next month.

4.1.2.1.3. Cleaning intake screens as Greg notifies them.

4.1.2.1.4. Fixing fire damaged facilities and equipment – discussions have begun. Maintenance crew has cut down several hazard trees near hatchery. Some trees will require professional fallers to prevent clogging intake screens.

4.1.2.1.5. Couture – recirculation motors for raceways may not be working. Please follow up with Greg. Pierce will follow up with Detroit crew foreman.

4.2. South Santiam (Brett Boyd)

4.2.1. South Santiam Hatchery – Fish health is good. STH fingerlings only fish on site. Doing well. Yearling Chinook were released in early March and the release went well.

4.2.2. Foster Fish Facility – checking presort pool daily. 8 StS, 32 StW collected. The STS were held for broodstock and the STW were hauled above Foster. Prepping for spawning.

4.2.2.1. Maintenance activities needed or recently completed.

4.2.2.1.1. AWS #1 RTS, pressure washing continues, main gate serviced, main hoist PM due, avian deterrents to be installed.

4.2.3. River Bend Adult Release Site – First meeting with county officials went well. Mullan asked about details of meeting. Boyd – a few more high-water events could wash out site, trying to maintain functionality.

4.3. McKenzie

4.3.1. McKenzie Hatchery – Couture. Fish production going well. Low water in the canal, warm water in the canal. Dependent on Cogswell Creek. Will transfer Spring Chinook juveniles to Leaburg in May.

4.3.2. Leaburg Hatchery – some fire recovery efforts ongoing.

4.3.3. Cougar Fish Facility – Garletts. No BLT or Springers collected yet.

4.3.3.1. Maintenance activities needed or recently completed.

4.3.3.1.1. Pierce is waiting on a backup generator part that will automatically start generator. Currently during a power outage an operator will need to be dispatched to site to start up generator. Should have that fixed in the next few weeks.

4.4. Middle Fork (Peak)

4.4.1. Willamette Hatchery

4.4.2. Dexter Fish Facility

4.4.2.1. Maintenance activities needed or recently completed.

4.4.3. Fall Creek Fish Facility – (Garletts) operating great. 37 Winter Steelhead, 1 Spring Chinook adult.

4.4.3.1. Maintenance activities needed or recently completed.

4.4.3.1.1. Materials on hand to address a leak. Waiting to schedule.

4.5. Bull trout and Oregon Chub (Taylor) – Working to extend BLT contract w/ ODFW through April of 2022. Chub contract on normal schedule, new contract with ODFW for one year.

- 4.6. WFFDWG/Research updates (Fenton for Laird) – Planning studies. Next week’s WFFDWG cancelled. RM&E – no updates.
 - 4.7. Water Quality updates (S. Hart)
 - 4.8. Flow update (Walker for S. Hart) – It is very dry and reservoirs are filling slowly.
 - 4.9. Pinniped Update (ODFW Kelly)
 - 4.9.1. Willamette River – Falls to confluence, 4/23, Staff observed four (4) California sea lions and three (3) Steller sea lions.
 - 4.9.2. Willamette Falls (4) CSL & (3) SSL’s. Removed (1) SSL and (8) CSLs.
 - 4.9.3. Bonneville Dam (Wertheimer) 60+ SSL in tailrace, 5+ CSLs. 13 Pinnipeds removed total (mixed species). Michael Brown (ODFW) reports, ” The Bonneville team (ODFW, WDFW, CRITFC, IDFG) were able to remove three (3) Steller sea lions and one (1) California sea lion from the Bonneville Dam area this week as well.”
 - 4.10. BPA updates – No update
- 5. HGMP BiOp Terms and Conditions**
- 5.1. Production and Biometrics – included in the hatchery production contracts.
 - 5.2. Use of natural origin broodstock.
 - 5.3. Bennett Counts (ODFW) 238 STHD, 2 Chinook (as of April 18th)
 - 5.4. Lebanon Counts (USACE) Scope to start May 1st. Camera system installed from last year. Try to improve the orifice deployment, also counting passage through the notch. Mullan asked where Lebanon counts will be posted. Anticipating data need due to low flows. Wertheimer explained w/ Leaburg counts on WFPOM webpage will try to update weekly.
 - 5.5. Leaburg Counts (EWEB/USACE)
 - 5.6. Reducing pHOS in the McKenzie River - Leaburg sorter. Couture thinks ODFW should be able to provide update on Leaburg sorter and discuss pHOS.
 - 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).
 - 5.10.1. Fenton Economy Act Order sent to USGS, long process. Last week USGS sending it to OSU but cannot start work until funding is received. USACE will continue to pressure USGS to get funding to OSU as data is important and has been delayed.
 - 5.11. Assess salmon spawning above federal dams
 - 5.12. Adaptively manage hatchery salmon outplanting above federal dams.
 - 5.13. Willamette Chinook Salmon Database.
 - 5.14. Three year report for NMFS SFD. Report due 2022.
- 6. Willamette Valley Production Contracts** – Walker is working with contracting for multi-year contracts.
- 6.1. Willamette Hatcheries
 - 6.2. Trout Production
- 7. Coordination/Notification forms (need concurrence/discussion)**
- 7.1. 21DET02 Detroit Water temperature and Fish Passage Measure 07 – similar to previous years operations, hope to implement earlier, as soon as reservoir level reaches spillway crest operation can begin, dry conditions persist
 - 7.2. 21LOP01 Fish Passage Measure 21 – hope to implement earlier, as soon as reservoir level reaches spillway crest operation can begin, dry conditions persist
 - 7.3. 21WVP01 Fish and Wildlife budget shortages – task group meeting will be scheduled in next couple of weeks to further discuss
- 8. Task Group/PDT Updates.**
- 8.1. Willamette Valley Operational Fish Passage Measures (PDT)

- 8.2. Safety and Environmental corrections (PDT)
- 8.3. Hatchery Non-routine maintenance/repairs (PDT)
- 8.4. McKenzie Water Supply (PDT)

9. Fish Operations Plan: WFOP homepage:

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

10. Blue Fish - A Computer Vision Solution for Fish Counting (presentation)/

- 10.1. Four Peaks Environmental Solutions – Sam Happy.
- 10.2. Video camera also houses high performance computer for fish tracking and analysis.
- 10.3. Fish pictures are transferred to the cloud, down to human observer, back to cloud.
- 10.4. Human classification is feed back to camera’s computer for AI learning goal: species classification.
- 10.5. Improve Processes
 - 10.5.1. Obtain more information
 - 10.5.2. Increase quality
 - 10.5.3. Physical proximity not necessary
- 10.6. Data available 66% faster than live or video counts – no need to visit site
- 10.7. Early ID of issues
- 10.8. Reduced staff effort
- 10.9. Field tested in the dry, fish counting windows, not submerged.
- 10.10. Applied for ERDC grant to count fish at Lebanon Dam – submerged camera deployment.
 - 10.10.1. First year viewing image and humans classify it on-line. No need to visit site.
 - 10.10.2. Year two testing species classifier, based on AI training of camera from submerged images classified by human.
 - 10.10.3. Camera can store data locally