

Subject: Final minutes for the 09 November 2023 FPOM meeting. The meeting was held via WebEx, from 0900 until 1345.

**In Attendance:**

Last	First	Agency	Phone	Email
Barnes	Chuck	NWW		<a href="mailto:Charles.a.barnes@usace.army.mil">Charles.a.barnes@usace.army.mil</a>
Baus	Doug	RCC		<a href="mailto:Douglas.m.baus@usace.army.mil">Douglas.m.baus@usace.army.mil</a>
Bellerud	Blane	NOAA		<a href="mailto:Blane.bellerud@gmail.com">Blane.bellerud@gmail.com</a>
Bertschinger	Paul	USACE		<a href="mailto:Paul.g.bertschinger@usace.army.mil">Paul.g.bertschinger@usace.army.mil</a>
Bettin	Scott	BPA		<a href="mailto:swbettin@bpa.gov">swbettin@bpa.gov</a>
Blair	Erin	NWP-FFU		<a href="mailto:Erin.k.blair@usace.army.com">Erin.k.blair@usace.army.com</a>
Braun	Mark	NWP-FFU		<a href="mailto:Mark.w.braun@usace.army.mil">Mark.w.braun@usace.army.mil</a>
Conder	Trevor	NOAA		<a href="mailto:trevor.conder@noaa.gov">trevor.conder@noaa.gov</a>
Cooper	Erin	FPC		<a href="mailto:ecooper@fpc.org">ecooper@fpc.org</a>
Day	Jim	NWP-TDA		<a href="mailto:James.e.day@usace.army.mil">James.e.day@usace.army.mil</a>
Ebel	Jonathan	IDFG	2088*51	<a href="mailto:jonathan.ebel@idfg.idaho.gov">jonathan.ebel@idfg.idaho.gov</a>
Fielding	Scott	NWP-PME		<a href="mailto:Scott.d.fielding@usace.army.mil">Scott.d.fielding@usace.army.mil</a>
Getz	John	NWW		<a href="mailto:John.j.getz@usace.army.mil">John.j.getz@usace.army.mil</a>
Gibbons	Karrie	NWP-FFU		<a href="mailto:Karrie.m.gibbons@usace.army.mil">Karrie.m.gibbons@usace.army.mil</a>
Hausmann	Ben	BPA		<a href="mailto:bjhausmann@bpa.gov">bjhausmann@bpa.gov</a>
Jackson	Aaron	CTUIR		<a href="mailto:aaronjackson@ctuir.org">aaronjackson@ctuir.org</a>
Juhnke	Steven	NWW		<a href="mailto:Steven.d.juhnke@usace.army.mil">Steven.d.juhnke@usace.army.mil</a>
Krasnow	Lynne	NOAA		<a href="mailto:Lynne.krasnow@noaa.gov">Lynne.krasnow@noaa.gov</a>
Lawonn	James	ODFW		<a href="mailto:matthew.j.lawonn@odfw.oregon.gov">matthew.j.lawonn@odfw.oregon.gov</a>
Lorz	Tom	CRITFC		<a href="mailto:lor@critfc.org">lor@critfc.org</a>
Lotspeich	Michael	NWP-JDA	5417**64	<a href="mailto:michael.d.lotspeich@usace.army.mil">michael.d.lotspeich@usace.army.mil</a>
Mackey	Tammy	NWP		<a href="mailto:Tammy.m.mackey@usace.army.mil">Tammy.m.mackey@usace.army.mil</a>
Macdonald	Jake	NWP-PME		<a href="mailto:Jacob.macdonald@usace.army.mil">Jacob.macdonald@usace.army.mil</a>
Madson	Patricia	NWP-FFU		<a href="mailto:patricia.l.madson@usace.army.mil">patricia.l.madson@usace.army.mil</a>
Magel	Chris	NOAA		<a href="mailto:Chris.magel@noaa.gov">Chris.magel@noaa.gov</a>
Morrill	Charlie	WDFW	360*40	<a href="mailto:Charles.Morrill@dfw.wa.gov">Charles.Morrill@dfw.wa.gov</a>
Peery	Chris	NWW		<a href="mailto:Christopher.A.Peery@usace.army.mil">Christopher.A.Peery@usace.army.mil</a>
Petersen	Christine	BPA		<a href="mailto:chpetersen@bpa.gov">chpetersen@bpa.gov</a>
Porter	Laurie	CRITFC		<a href="mailto:porl@critfc.org">porl@critfc.org</a>
Randall	Jeff	NWP-TDA	5412**06	<a href="mailto:Jeffrey.w.randall@usace.army.mil">Jeffrey.w.randall@usace.army.mil</a>
Roberts	Marcus	NWP-FFU		<a href="mailto:Marcus.t.roberts@usace.army.mil">Marcus.t.roberts@usace.army.mil</a>
Sharp	Bill	YN		<a href="mailto:Bill_sharp@yakama.com">Bill_sharp@yakama.com</a>
Silver	Greg	CRITFC		<a href="mailto:gsilver@critfc.org">gsilver@critfc.org</a>

Stewart	Jeffrey			<a href="mailto:Jeffrey.g.stewart@usace.army.mil">Jeffrey.g.stewart@usace.army.mil</a>
Swank	Dave	USFWS		<a href="mailto:david_swank@fws.gov">david_swank@fws.gov</a>
Urmston	Jenn	USFWS		<a href="mailto:Jennifer_urmston@fws.gov">Jennifer_urmston@fws.gov</a>
Van Dyke	Erick	ODFW		<a href="mailto:erick.s.vandyke@odfw.oregon.gov">erick.s.vandyke@odfw.oregon.gov</a>
Wertheimer	Bob	NWP-FFU	5413**51	<a href="mailto:Robert.h.wertheimer@usace.army.mil">Robert.h.wertheimer@usace.army.mil</a>
Wright	Lisa	NWD-RCC		<a href="mailto:Lisa.S.Wright@usace.army.mil">Lisa.S.Wright@usace.army.mil</a>
	Trenton	YNF		<a href="mailto:debt@yakamafish-nsn.com">debt@yakamafish-nsn.com</a>
			5037**83	

## 1. Final actions or decisions.

1.1. October FPOM minutes approved.

## 2. FPOM Action Items

### 2.1. NWW

2.1.1.[Sep 23] Avian Lethal take. **ACTION:** Peery will update the lethal take spreadsheet.  
**STATUS:** Still waiting on input from Wildlife Services.

2.1.2.[Nov 23] 23LMN12 MFR spillgate 5 and 7 repair. **ACTION:** Peery will find out how LMN spillbays could be operated with a crane so the spill patterns can be somewhat normal and Lorz won't be pushed into an early retirement from the stress.

### 2.2. NWP

2.2.1.[Nov 23] CRITFC Member Tribes Lamprey Trap. **ACTION:** Macdonald will draft the MOC with the design concepts so FPOM can review a thorough plan. He will have this by the December FPOM meeting.

2.2.2.[Nov 23] Avian end of season review. Lorz asked if there would be an end of season review. It was a good meeting to help the Region understand what was going on and what might need to be changed for the upcoming season. **ACTION:** Mackey will work with Bettin and Lorz to develop an agenda and schedule the meeting. AFEP Avian presentations may be included.

2.2.3.[Nov 23] Lawonn reported that ODOT and ODFW will present to the NWPCC the status of the bridge colony. He invited others to join. **ACTION:** Lawonn will send the meeting info to Mackey so she can send to FPOM. **STATUS:** Krasnow provided the link to the meeting. [https://nwcouncil.org/fs/18524/2023\\_11\\_3.pdf](https://nwcouncil.org/fs/18524/2023_11_3.pdf)

2.2.4.LAWG: Next quarterly meeting will be Nov. 16-17. Porter asked Macdonald to capture all of the email strings prior to the LAWG meeting. **ACTION:** Macdonald will take care of that.

### 2.3. Completed Action Items or to be discussed later in the agenda.

2.3.1.[Sep 23] MCN spillway crane and ERDC model. **ACTION:** Peery and Juhnke will work on a MCN spillway presentation. **STATUS:** in the works. Will be available by November FPOM. *Spillway status was sent in email and updates will be provided.*

2.3.2.[Sep 23] LWG tailwater monitors/LGS pool levels. This will be on the November FPOM agenda for further discussion. **ACTION:** Peery will send info to FPOM after receiving NOAA comments.

## 3. FPOM Updates

### 3.1. NWW Updates

3.1.1.Upcoming coordinated maintenance/construction/research activities.

3.1.1.1. 22 LWG 04 MOC T1T2 Gasket Repair. Nov 28-Jan 31. T1C first and then T1B.

3.1.1.2. 23 LGS Unit 5 Commissioning. Postponed to Fall/Winter 2023.

**3.1.1.3.LGS Fishway Cooling Pump Repair/Replace.** New pump will be delivered in the summer of '24. Conder asked if the underlying problem will be fixed. Peery said they are replacing in kind rather than a new design. A new design would take longer. MCN and LMN may get new designed systems. For LGS, going in-kind and having 3 pumps on hand is quicker. Conder said it might be worthwhile to look at the cooling pump operation, maybe a later start, to help keep the pumps in a workable condition. Peery was agreeable with looking at criteria. Ebel asked more about Conder's proposal of starting the season with only one pump. He asked about the probability of failure. FPOM would like to know if the probability of failure is related to the on/off action or runtime. Van Dyke asked if anyone is working on the pump issues. Peery said he is not sure what the team is working on, or who is doing the investigation. He can find out. Van Dyke asked when the new pump will arrive and if the discussion now is about how to operate with the pumps that are available. Conder's recommendation is only for the in kind replacement pump and he would support returning to the current FPP trigger once the pump design problem has been addressed. Van Dyke noted that the new pump is the same as the failed pumps so we will have faulty equipment. He asked Conder if he is looking at options to do less for fish passage in an effort to keep the new pump running. Conder said he doesn't believe it is less for fish passage, because the original trigger was conservative and had the pumps on before a strong differential sets up. The new proposed trigger would turn the pumps on closer to 68F, which is when the pumped water is needed. He also noted that adjusting the trigger should result in a better condition of having the pump available rather than run the pump to a point of failure sooner. Van Dyke was not in agreement. Lorz agreed with Conder and asked for more discussion at the February FPOM meeting. Morrill asked if the failure was electrical or mechanical. FPOM provided a lot of encouragement to figure out what is wrong with the pump and see if modifications can be made to avoid the same issues with the new pump. Van Dyke asked if the pump is pulled out every year. Peery said it is a submersible pump so it doesn't get pulled out except when needed for maintenance. van Dyke suggested regularly pulling the pump to look at it. Peery stressed the need for a different design. The submersible pump was a quick solution but not a long-term solution. FPOM continued to suggest maintenance, trigger adjustments, and any other options for keeping the pumps operating longer.

**3.1.1.3.1.Lorz** asked when the three pumps will be on-line. Peery said:

1. The one in the shop will be repaired in January.
2. The new pump will show up in July.
3. Waiting on the quote for the repair of the pump on-site.
4. There will be at least one spare pump for the season.

**3.1.1.4.23LMN12 MFR spillgate 5 and 7 repair.** Leadtime is at least 17 weeks and may be as long as 30 weeks. Lorz asked if the gates could be operated by a crane and dogged. Peery said he would check. There is also the option of moving gear boxes around if some bays are deemed less important for the patterns. **ACTION: Peery will find out**

how LMN spillbays could be operated with a crane so the spill patterns can be somewhat normal and Lorz won't be pushed into an early retirement from the stress.

- 3.1.2.MCN crane status. Peery said there are some bays that have hoists and can be moved from the Control Room. Van Dyke asked if MCN is using the priority list for organizing which gates are worked on first. Laughery did some testing
- 3.1.3.MCN ERDC Model. Funding limited. Will have a design for regional review, with model runs in September/October, though August is the goal. Juhnke said this will not be done before he retires.
- 3.1.4.Fish Transport program. Transport is completed.
- 3.1.5.LWG tailwater monitors/LGS pool levels. Conversations are still occurring within the Fed Family. Lorz said CRITFC will likely submit change forms. Will NOAA have their issues resolved before the forms are due? Conder said that is a worthy goal and one he will work towards.

### 3.2. NWP Updates

- 3.2.1.Upcoming coordinated maintenance/construction/research activities.
  - 3.2.1.1.19BON001 MOC Navigation Lock 1 Bridge Replacement. No FPP conflict. Work may not begin for many years.
  - 3.2.1.2.23BON002 ITS end gate replacement. Completed.
  - 3.2.1.3.23BON092 MOC Lamprey work within 50' of the B-Branch fishway.
  - 3.2.1.4.BON FGE – U12 expected RTS by 9 November.
  - 3.2.1.5.BON PH2 Tailrace crane replacement. Work will occur during winter 25/26.
  - 3.2.1.6.19TDA04 MOC – East side powerhouse crane rails. No new update. Looking at resuming work this winter.
  - 3.2.1.7.18JDA02 MOC Trash rack replacement. Next update – fall 2023. Approved. Contract award in about a year.
  - 3.2.1.8.20JDA04 MOC STS crane replacement. In the fabrication portion of the contract. Construction will start next June, commissioning to occur at the end of summer 2024. On track.
  - 3.2.1.9.22JDA20 MFR JDA-S Temps. Incorporating 2023 data into the memo. No new update. Lorz asked if these are the temps reported to FPC. Lotspeich said there are the two probes that are reported to FPC and then there are many additional probes that collect temperatures in the forebay and through the ladder. Macdonald said the other probes help feed the PDT that Fielding works with. Fielding will update the MFR with the most recent temp data and resend. Lotspeich said he is happy to add Lorz to the email list for the raw data from the probes. Lorz said thanks, he was really most interested in access to the data so he can share that info with others.
  - 3.2.1.10.23JDA03-05 JDA -S fish turbine pumps 1 and 2 operating at reduced output 55 rpms, 3 OOS for gearbox repair.
- 3.2.2.JDA north pump #4. Budget request has been submitted. No funding received yet. Looking at submitting an FY26 budget package. No update.

3.3. NWS updates. No one from NWS was on the call. No update available.

### 3.4. Research/FFDRWG

- 3.4.1.November FFDRWG held on 8 November.
  - 3.4.1.1.CRITFC Member Tribes lamprey collector. Macdonald shared his screen to show some Google Earth images.
  - 3.4.1.2.Macdonald talked about why the proposed BON location was chosen and would like FPOM input. Conder doesn't want the collector in the AWS flow or in the ladder flow. Conder said 10m should be a sufficient distance.

**3.4.1.2.1.** Morrill said TDA may be a better alternative. Porter has comments but wants to see the notes from the FFDRWG conversation first. This will be discussed again at the LAWG meeting next week. Macdonald said the TDA tailrace site may be better from a salmon perspective, however, it is unknown how many lamprey might be collected at this point.

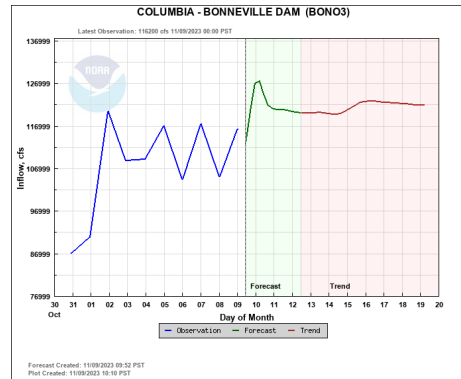
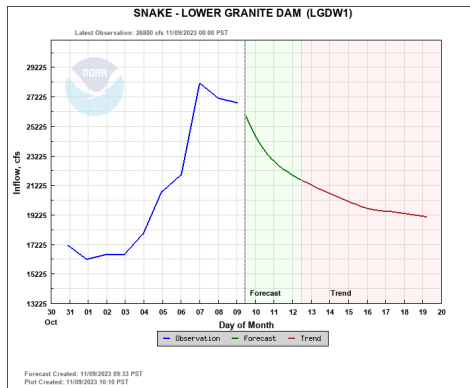
**3.4.1.2.2.** Corps 408 program. Macdonald asked if Mackey or Peery had any experience with the program. Peery said he has worked with it and it is a fairly arduous process. Peery said the timeline to have the collector in the water by April, that should be possible. Porter asked who would be the applicants, Peery said the tribes would be the applicants. Macdonald said he has a meeting on Monday with the 408 coordinator and he will relay information to Porter. Porter believes this action would be a Corps action. Bettin asked if the collector is a proof of concept or permanent. If it's a proof of concept, then if it is anchored rather than attached to the dam, it may be easier to move through the process. This collector would be similar to the PIT barge. Conder said there would need to be enough anchors to keep it stable in the eddies. Macdonald asked how FPOM feels about anchor lines in a fishway entrance. Conder has concerns and would prefer not to see lines in the path of the entrance. Conder has different concerns about the different locations between TDA and BON. Porter asked if the Corps would take responsibility for placing and anchoring the structure. Macdonald did not have an answer for this yet. He has an internal meeting next week to discuss further. **ACTION: Macdonald will draft the MOC with the design concepts so FPOM can review a thorough plan. He will have this by the December FPOM meeting.**

**3.4.2.** SRWG. Barnes provided an update with the MCN evaluations. Three options – sensor fish, balloon fish, and acoustic tags. Acoustic fish are the preferred option, though there is only funding for one evaluation. The plan now is for balloon fish to allow for more evaluations. Lorz asked if SRWG could see a draft proposal for both acoustic and balloon fish options. He believes more conversation could help refine the study, which could help control costs. Barnes said NWW is pushing hard with the balloon tags since those fish are needed sooner. Van Dyke said the meetings are talking about ideas and not really agreeing to anything. He takes exception to these meetings being characterized as agreements. He noted all of the disagreements about information collected by the different studies. He said the discussions in SRWG are more about providing input on, not agreeing to, studies and study design. Conder supports Barnes' plan for moving forward. He also brought up the lamprey studies at other projects and the potential to utilize those setups as well. FPOM looked at their calendars. Barnes will get an invite out as soon as he can.

### 3.5. RCC update.

**Table 1. Previous Day Average Outflow and NWRFC Inflow Forecast.**

Project	Previous Day (11/8) Avg. Outflow (kcfs)	5 Day (11/13) Forecasted Inflow (kcfs)	10 Day (11/18) Forecasted Inflow (kcfs)	Forecasted Inflow Low/High (kcfs)
LWG	27	21	19	19 (11/18) / 26 (11/9)
MCN	102	103	113	110 (11/13) / 116 (11/10)
BON	112	120	122	120 (11/13) / 128 (11/10)



Project Data: <https://pweb.crohms.org/report/projdata.htm> NWRFC Inflow Forecasts:  
<https://www.nwrhc.noaa.gov/rfc/>

**3.6. Fish Count Program** (Peery, Wertheimer). New contract due in 2024. Evaluating proposals in early December. Morrill asked if walleye will be included. Peery said there isn't funding to add the non-salmonid species.

**3.7. BPA Update.** Schedule available on the FPOM website. Not a lot of conflicting work going on this season.

### **3.8. Avian updates 10:30AM**

**3.8.1. NWW** – still seeing cormorants, likely feeding on shad. Juhnke said the CRA is preventing the contract for the evaluation but NWW is working on it as much as they can. Morrill asked about falconry at MCN. No update on the falconry yet.

#### **3.8.2. NWP**

**3.8.2.1. JDA** – USDA will be on-site to look at the avian array replacement. What they cannot do will need to be a separate contract. Lots of gulls foraging on shad. 75 cormorants with few foraging observations. 14 grebes are foraging in the forebay. No pelicans foraging, about 10 on the downstream islands.

**3.8.2.2. TDA** - couple hundred gulls feeding on shad in the navlock. 20-30 cormorants, 10 foraging. Day is testing sound deterrents. Lost one spillway avian wire. Not sure if that line will be replaced this season.

**3.8.2.2.1. Miller Rocks** – Sharp reported that birds are roosting. There are no hazing activities over the winter. Coordinating with USFWS for a take permit.

**3.8.2.3. BON** – No BON bios on the call. No update.

**3.8.2.4. Lethal Take Permit.** A draft permit is going through internal review. Specific details about where live rounds and firearms will be stored will be worked through the Economy Act Order process.

**3.8.2.5. Estuary.** Reports are available at [Documents / FPOM Avian Hazing Task Group \(crohms.org\)](https://pweb.crohms.org) Lark management plans are being drafted. Working on a staffing plan as well. Lorz asked if there would be an end of season review. Macdonald said the AFEP review should be on the calendar. Lorz said this was outside AFEP and included inland and estuary work. It was a good meeting to help the Region understand what was going on and what might need to be changed for the upcoming season. **ACTION: Mackey will work with Bettin and Lorz to develop an agenda and schedule the meeting. AFEP Avian presentations may be included.** Krasnow and Magel would like to be included. Mackey will send to the entire FPOM group. Conder clarified that those meetings were inland avian meetings. According to the Corps, the Inland Avian Group met the goals and so they quit these meetings. FPOM would like these meetings to be resurrected. Macdonald suggested incorporating into



AFEP. Lorz suggests not including it in the AFEP lineup but maybe meeting just after AFEP.

**3.8.2.5.1.**ESI. Tags have been uploaded.

**3.8.2.5.2.**Rice, Miller Sands, and Pillar Islands. Work is complete for the season.

**3.8.2.5.3.**Astoria Megler Bridge. Lawonn reported that ODOT and ODFW will present to the NWPCC the status of the bridge colony. He invites others to join. He noted that they are slowly getting to a point of managing DCCOs on the bridge. Cormdominium is the new word of the day. This is predator proof structure that allows DCCOs to nest. Lawonn suggests building this on ESI. Wertheimer asked for a read-ahead. Lawonn said he will ask ODOT as they are the lead agency on the presentation. He said people may be able to find the meeting materials on the NWPCC website. **ACTION: Lawonn will send the meeting info to Mackey so she can send to FPOM.** Krasnow provided the link to the meeting. [https://nwcouncil.org/fs/18524/2023\\_11\\_3.pdf](https://nwcouncil.org/fs/18524/2023_11_3.pdf)

### **3.9. Pinniped update.**

**3.9.1.**BON. Few pinnipeds right now. Morrill said there were no reports of pinnipeds in the chum areas either. This is attributed to the low tailwater.

**3.9.2.**Willamette Falls. Not much activity. Traps are not active.

### **3.10. Lamprey update**

**3.10.1.**BON. FFU is working on ensuring counts can flow to the fish count contractor in the future. All LPSs have been winterized. K. Gibbons provided (via chat) the following info - uncorrected LPS counts at BON 72,383 - for 2023 passage season.

**3.10.2.**TDA. All work completed on the new LPS for the east ladder. Just need a dewatered ladder for installation. There are concerns there may be fish under the previously blown grating.

**3.10.3.**JDA. Trap at SE1 will be installed on time. Elevator 4 is still on track to be repaired in the late spring. The existing motor has to be rewound as there are no off the shelf models available for the ancient elevator.

**3.10.4.**NWW. No operational changes expected. The juvenile lamprey study wrapped up last week. The anticipated late juvenile outmigration didn't materialize this year. Working on equipment removal.

**3.10.5.**LAWG: Next quarterly meeting will be Nov. 16-17. Porter asked Macdonald to capture all of the email strings prior to the LAWG meeting. **ACTION: Macdonald will take care of that.**

## **4. FPOM Coordination/Notification forms (need concurrence/discussion)**

### **4.1. NWW**

**4.1.1.23IHR10** MFR Only one north shore AWS pump in operation. No further comments.

### **4.2. NWP**

**4.2.1.23BON024** MOC Navlock dredged sediment disposal. Morrill thanks NWP for changing the disposal site.

**4.2.2.23BON098** MFR T12 outage. No further comments.

**4.2.3.23TDA13** MFR Gatewell morts. No further comments.

**4.2.4.23JDA37** MOC SMF early dewater. No comments at this time.

**4.2.5.23JDA38** MFR Gatewell 12B issues. No further comments.

## **5. Fish Passage Plan**

**5.1.** The Final 2023 FPP went into effect on March 1 and is posted at:

[pweb.crohms.org/tmt/documents/fpp/2023/](http://pweb.crohms.org/tmt/documents/fpp/2023/)

**5.2.** Change Forms:

**5.2.1.** 23JDA003 – Unit 13 Operating Range (Wright). No comments by FPOM.

**5.3.** Invasive species removal language. No change form yet, but it will include the removal of invasive species during dewatering activities.

**6. FPOM Task Group Updates.**

**6.1.** Schedule falconry discussion (Peery/Morrill). No update yet.

**6.2.** MCN TSW operation in the summer (Peery). Look at biological and model data to determine an appropriate operation of the TSWs in the summer. Waiting on data before scheduling a meeting.

**6.3.** Budget and Infrastructure Updates. Task Group met at 1200. Updated spreadsheet will be posted to the November FPOM website folder.