

OFFICIAL COORDINATION REQUEST FOR NON- ROUTINE OPERATIONS AND MAINTENANCE

COORDINATION TITLE- 17BON68 PH2 Non-Routine November Outage

COORDINATION DATE- 10 October 2017

PROJECT- BONNEVILLE Lock and Dam

RESPONSE DATE- 16 October 2017

Description of the problem-

The North Downstream Entrance at PH2 (NDE) is believed to have sand in the entrance gate slot, preventing the gate from reaching optimal submergence during lower tailwaters (<18.0'). FPP Criteria for PH2 entrance gates is >13.0'. The entrance gate cannot go past 5.0' putting the project out of criteria for a large part of the year. Entrance gates would be removed allowing a suck truck to remove sand and other fine materials from the entrance slot.

Sand is believed to be in excess throughout the auxiliary water supply system at PH2 also as seen from ROV inspections. The full extent is currently unknown. Dewatering the fishway would allow project personnel to investigate better in anticipation of the 2018-19 IWW period.

A lamprey rest box became partially detached from the fishway floor near the count station this summer. It has broken free of ¾ anchors and could pose a risk to adult salmonids should it block an overflow weir orifice. This would be removed in the outage.

The upper LFS/LPS entrance gate is also believed to be full of sand, similar to the NDE. Due to its location, an ROV is not able to fully inspect this entrance. This LFS/LPS has had poor usage even after numerous modifications. A blocked entrance could be the cause of this. Dewatering would allow biologists to inspect this entrance for blockage.

Weir caps designed to assist lamprey entrance efficiency were not able to be installed during the IWW period 2016-17. Should an outage be permitted, these weir caps would be installed.

Type of outage required- PH2 adult fishway would be fully dewatered.

Impact on facility operation- No fish passage would occur through the Washington shore ladder for the duration of the 2 week outage. No other impacts to normal operations.

Dates of impacts/repairs- Friday, November 3rd through Saturday, November 18th.

Length of time for repairs- 15 days total.

Expected impacts on fish passage-

Downstream passage - Adult fishways are not a primary route of passage for out-migrating salmonids or lamprey. Minimal impacts are anticipated.

Upstream passage – PH2 would remain the priority powerhouse during this time. Bradford Island fish ladder would remain in service. Fish may be delayed while locating the working ladder.

Pacific Lamprey – Minimal impacts to adult migrating Pacific Lamprey are anticipated due to the timing of the outage. Lamprey Passage Structures are typically turned off at the beginning of November due to the end of lamprey passage. Adult fishways are not a primary means of juvenile lamprey passage.

Table 1. 10 year averages (Washington Shore).

Date	CH	ST	COHO	SOC	CHUM	PINK
3-Nov	84	42	201	0	2	0
4-Nov	77	38	194	0	2	0
5-Nov	70	39	226	0	2	0
6-Nov	99	47	154	0	2	0
7-Nov	66	43	164	0	3	0
8-Nov	64	40	61	0	3	0
9-Nov	63	37	139	0	4	0
10-Nov	53	39	119	0	2	0
11-Nov	52	31	115	0	3	0
12-Nov	43	31	85	0	4	0
13-Nov	27	27	50	0	2	0
14-Nov	30	24	65	0	3	0
15-Nov	20	21	54	0	2	0
16-Nov	18	29	36	0	2	0
17-Nov	11	26	45	0	4	0

Comments from agencies-

-----Original Message-----

From: Ralph Lampman [mailto:lamr@yakamafish-nsn.gov]

Sent: Wednesday, October 11, 2017 9:23 AM

To: Kovalchuk, Erin H CIV USARMY CENWP (US) <Erin.H.Kovalchuk@usace.army.mil>

Cc: Brian McIlraith <mcib@critfc.org>; Tackley, Sean C CIV USARMY CENWP (US) <Sean.C.Tackley@usace.army.mil>

Subject: [EXTERNAL] Re: FPOM: Official Coordination 17BON68 MOC PH2 Non Routine November Outage

It would be good to keep in mind larval lamprey salvage during the sand removal (there could be many that may rear in this habitat).

Ralph Lampman

Yakama Nation FRMP, Pacific Lamprey Project

lamr@yakamafish-nsn.gov <<mailto:lamr@yakamafish-nsn.gov>>

509-388-3871

Final Results – This MOC was denied at the October FPOM.

FPOM discussion from the meeting minutes –

- 1.1. 17BON68 MOC Non Routine PH2 November outage** – WA SH entrance gate can't be opened more than 6' due to sand, sand is filling the diffusers and a dislodged LPS rest box has to be removed. Maintenance is requesting a week earlier than in the MOC. PH2 is still the priority unit. Derugin will find out why the priority is not switching. **The MOC is denied.** The MOC needs to be re-written with the correct dates and the impacts to fish expanded. Meyer asked if it possible to isolate the entrance. FPOM members wanted to know why the work cannot be done in the IWWP. Derugin said that BI is the ladder going down in this winter and the workload is too great. Other questions that FPOM members had include: what winter work has to be given up at BI in order to get the work done at WA SH during the IWWP, why can't the time be added to the end of November and what are the impacts to fish if no work is completed. Regional fish mangers stressed that they do not want the work done in October.

Please email or call with questions or concerns.

Thank you,

Erin
Erin Kovalchuk
NWP Operations Division Fishery Section
Columbia River Coordination Biologist
Erin.H.Kovalchuk@usace.army.mil

Brian Bissell
Fish Biologist
Bonneville Lock & Dam
541-374-7984 (Office)
Brian.M.Bissell@usace.army.mil