

MEMORANDUM FOR THE RECORD**SUBJECT: 18BON15 MFR - Cascades Island LPS Pacific Lamprey Mortalities**

On the morning of 5 June 2018, FFU staff completed a follow up inspection of the Cascades Island lamprey passage system. They removed 2 adult Pacific Lamprey mortalities which were measured and returned to the river. They also removed 10 live adult lamprey. The fish were visually inspected for injury, radio antennas from a current study, or other tags. They were then scanned with a PIT detector and since no tags were found they were returned to the river.

- A. Species – 2 Pacific Lamprey (*Entosphenus tridentatus*).
- B. Origin – Assumed naturally spawned
- C. Length –
 - a. 66.1 cm TL, Inter-dorsal 4.4 cm
 - b. 61.6 cm TL, Inter-dorsal 3.8 cm
- D. Marks and tags – No PIT tags (full or half duplex) or external tags discovered
- E. Marks and Injuries found on carcass – None
- F. Cause and Time of Death – Believed to be residual mortalities due to two pump failure reported in MFR 18BON14.
- G. Future and Preventative Measures – The climbing section of the Cascades Island LPS has been taken out of service until a second pump can be installed near the ‘pond’ junction box. We are investigating using a lead pump and a lag pump vs. two in continuous operation and alarm system to alert the control room.

Sincerely,
Project Fisheries

Comments from agencies:**Yakama-**

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

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

Sent: Monday, June 11, 2018 9:43 PM

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

Subject: [Non-DoD Source] Re: FPOM: Official Coordination 18BON15 MFR CI PL morts

Hi Erin,

Thanks for adding the interdorsal gap (really useful for understanding if they are overwintered / spawn ready fish or fresh migrants!)
(not sure who the credit goes to, but appreciate the addition)

Ralph Lampman
COLUMBIA RIVER | Honor. Protect. Restore

Yakama Nation FRMP, Pacific Lamprey Project



Figure 1. Two adult lamprey mortalities removed from rest box 3 and rest box 4.



Figure 2. Two pump set up used to lift water from the new forebay extension to the older climbing section. Failed pump removed.



Figure 3. Two GFI outlets that power the 110 volt a/c pumps. Both were found tripped on the morning of 4 June so no water was flowing through the climbing section. The right one would reset and pump would operate, the left one would trip each time the failed pump was plugged in.