

MEMORANDUM FOR THE RECORD

SUBJECT: 18BON10 MFR – Cascades Island Lamprey Mortalities.

On the afternoon of 17 May, project biologists observed what they believe to be a total of (7) Pacific Lamprey mortalities throughout the Cascades Island ladder serpentine section. Fish were observed from the barrier screen at the Cascades Island count station all the way up to the exit. In recent years, picket leads at the UMT were reduced to exclude fish from the AWS, however those measures seem to not have been completely effective.

It is completely unknown how fish are entering the Cascades Island fish ladder beyond the barrier screen though. During numerous dewatering events, project biologists and other project staff have thoroughly walked and examined the ladder for any possible entry point and have not identified them. The early timing and cold temperature of the water are also alarming for observed mortalities.

- A. Species – Pacific Lamprey (*Entosphenus tridentatus*).
- B. Origin – Unknown.
- C. Length – Not measured.
- D. Marks and tags – No marks and/or tags were observed.
- E. Marks and Injuries found on carcass – No marks and/or injuries observed.
- F. Cause and Time of Death – Unknown.
- G. Future and Preventative Measures – Project Fisheries will continue to monitor the Cascades Island picket leads, AWS, and fish ladder for additional lamprey. Resuming trapping of fish from the AWS may be examined to remove potential future fish from a perilous fate.

Sincerely,
Project Fisheries

