**CENWP-OD-B02 Sept 2024**

**MEMORANDUM FOR THE RECORD**

**SUBJECT: 24BON050 MFR CI LPS Temporary Shutdown**

On the morning of Monday, 02 September, the Cascades Island Lamprey Passage Structure (CI LPS) Pump 1 overload trip and low water alarm came in at 0559 hours. An Operator and Project Biologist arrived at the CI LPS to investigate the pump, check water levels, and reset the pump. The pump could not be returned to service despite efforts to reset the overload element in the panel.

Due to the reduced flow performance of the CI LPS and the lack of electricians and mechanical staff onsite during holiday hours to perform repairs, the Project Biologist determined that the safest option for life and health safety of fish was to perform an emergency fish salvage and turn off the LPS temporarily until repairs could be completed during the normal work week. The CI LPS was fully shutdown and salvaged by 0728. A total of two Pacific Lampreys were salvaged from the structure and released upstream in the forebay. No mortalities were found.

Due to not having electricians and mechanical staff onsite at the time of shutdown, it is unknown when the system will be repaired and returned to service, but Project Biologists will notify staff when they return to troubleshoot repairs as soon as feasible.

**UPDATE 9/5:** The Cascades Island LPS Pump 1 and Pump 2 were replaced with new pumps yesterday afternoon and the LPS was returned to service by 1530 on 04 September 2024.

1. Species – Pacific Lamprey (*Entosphenus tridentatus)*
2. Origin – NA
3. Length – NA
4. Marks and tags – NA
5. Marks and Injuries found on carcass – NA
6. Cause and Time of Death – No mortalities.
7. Future and Preventative Measures – Bonneville Personnel are working diligently to come up with a reliable repair for the remainder of the lamprey passage season. The LPS pump upgrade PDT will be notified of this outage.

Sincerely,

Bonneville Project Fisheries