

**MEMORANDUM FOR THE RECORD****SUBJECT: 22BON037 MFR U7 Scroll Case Subyearling Chinook Morts**

On 11 July, Project Fisheries conducted fish rescue out of the scroll case of Unit 7 (U7) at Powerhouse 1. This dewatering occurred to facilitate the 5-year overhaul planned maintenance outage for Unit 7. The total fish salvaged from the scroll case were ~300 subyearling Chinook, ~70 adult shad, 3 smallmouth bass, 2 sculpin, 1 juvenile carp, and 1 three-spined stickleback. Of the total fish salvaged, ~30 subyearling Chinook mortalities were observed during release. The large number of adult shad mixed in with juveniles made the salvage time-consuming. Heavy leakage under the headgates increased water levels in the scroll case and created a high velocity whirlpool around the “grizzly” drain, resulting in a difficult salvage. Leaving the juveniles in these conditions often leads to risk of impingement against the grizzly screen and increased handling times. Fish were removed as fast as manpower allowed but general stresses were the cause of the mortalities.

Approximately 30 mortalities observed.

- A. Species – subyearling *Oncorhynchus tshawytscha*
- B. Origin – NA
- C. Length – approximately 100 mm
- D. Marks and tags – Adipose clipped
- E. Marks and Injuries found on carcass – NA
- F. Cause and Time of Death – Stress from dewatering U7 scroll case, between 1530-1630 hr
- G. Future and Preventative Measures – Wait for water levels to get to a more feasible fish rescue level and have more fisheries personnel available to assist with salvage. These preventable measures will reduce stress and lessen the time of impacts experienced by fish.

Sincerely,  
Bonneville Project Fisheries