

**MEMORANDUM FOR THE RECORD**

**SUBJECT: 21JDA04 MFR South Fish Ladder Out of Service for Debris Removal**

At 0900 on April 20<sup>th</sup>, 2021, the South Fish Ladder was taken out of service to remove excessive amounts of debris. The log boom at the south fish ladder exit was damaged during an east wind event the week of April 12<sup>th</sup>. The log boom was removed to inspect for damage. The damage is extensive and needs between 2 to 3 weeks for repairs. On Saturday, April 17<sup>th</sup>, during ladder inspections, it was noted that debris was accumulating in the south ladder near the exit. On Monday, April 19<sup>th</sup>, the amount of debris was unprecedented in the control section of the south ladder and the decision was made to take the ladder out of service and remove the debris. A temporary log boom is installed until the permanent boom can be repaired. Once the log boom is repaired, it can be replaced without further outages. One clipped adult Chinook, four suckers, and five smallmouth bass were successfully salvaged and returned to the river. The ladder was cleared of debris and returned to service at 1430 on April 20<sup>th</sup>.

**UPDATE 5/4/2021**

On 4 May from between 1000 and 1100 a sturdier temporary debris boom was installed in the forebay in front of the South fish ladder exit at John Day dam. The previous temporary debris boom was removed and taken away from the ladder exit area. This improved upon temporary boom will allow John Day maintenance to make all necessary repairs to the permanent debris boom and will ensure its safe operation and structural integrity for many more years. A timeline of a month is expected for the repairs and reinstallation. Please see picture below for your reference.

- A. Species – na
- B. Origin – na
- C. Length – na
- D. Marks and tags – na
- E. Marks and Injuries found on carcass – na
- F. Cause and Time of Death – na
- G. Future and Preventative Measures – na

Sincerely,

JD Project Fisheries



Figures 1 & 2. Large woody debris mat in the flow control section of the South Fish Ladder.



Figures 3 & 4. Large wood debris in the South Fish Ladder with the potential to stop fish passage.



Figures 5 & 6. Tuck loads of debris removed April 20<sup>th</sup>, 2021 ladder was returned to service the same day.



Figure 7. The first temporary debris boom installed on April 20<sup>th</sup>, 2021.





Figure 8. The second, improved temporary debris boom being installed at the south fish ladder exit on May 4, 2021. First debris boom in lower right.