

**MEMORANDUM FOR THE RECORD****SUBJECT: 20JDA07 Chinook Mortality Near Spill bay #20**

On Thursday, 21 May, JDA Fisheries discovered an adult Chinook mortality on the tailrace deck near spill bay 20. Similar occurrences happened in 2017 (See 17JDA03 and 17JDA04). The exact cause was unknown. It is believed to be a result of spill bay 20's discharge colliding with the opening at NE-3 weir (now unused). When it collides with the opening, an occasional (approximately once/ few minutes depending on flow) surge of water shoots straight up. If a fish got caught in the discharge, the velocity would be enough to force the fish out of the water and onto the deck. After the previous mortalities, a metal mesh was used to line the bottom of the guard rail overlooking NE-3. Since that time, no other instances have occurred. This is the first new observation since 2017, and only the 2<sup>nd</sup> year it has been seen. Increased spill at bay #20 is believed to be the root cause. Monitoring of the area will be ongoing.

- A. Species – Chinook
- B. Origin – Hatchery
- C. Length – ~26"
- D. Marks and tags – none
- E. Marks and Injuries found on carcass – Split caudal fin ray, marks similar to net patterns, some descaling
- F. Cause and Time of Death – Stranded on tailrace deck, estimated to be early afternoon on May 21<sup>st</sup>.
- G. Future and Preventative Measures – TBD, there was an issue in 2017 with a handful of fish getting stranded. Some metal mesh was put around the lower access area (below the guard rail) to help reduce instances.

Sincerely,  
JD Project Fisheries

