

MEMORANDUM FOR THE RECORD - 16 IHR 010

SUBJECT: Adult steelhead mortality found on October 21, 2016, at the juvenile fish collection channel.

- A. Species – *Oncorhynchus mykiss*.
- B. Origin – unknown.
- C. Length – 28.5”
- D. Marks and tags – none, unclipped.
- E. Marks and injuries found on carcass – contusions and hemorrhaging, most likely from the fish flopping around on the grating.
- F. Location – The fish was found on the walkway grating of the juvenile fish collection channel, above and adjacent to orifice 5AN.
- G. Cause and time of death – The fish had jumped out of the channel sometime over the past day. The existing jump-netting extends 11-12’ above the water surface. There is plastic mesh attached all along the hand rail, from the jump netting down to the toe board. However, there was a tear in the plastic mesh above orifice 5AN large enough for the fish to squeeze through.
- H. Future and preventative measures – All of the plastic mesh under the jump netting was examined and three or four additional tears/gaps smaller than the one at 5AN were found. They were all mended with plastic cable ties. The plastic mesh is slowly deteriorating and will need to be eventually replaced in kind or with some other type of barrier material that will not injure fish that jump against it.
- I. Pictures included below. The first photo is of the fish turned over, to show the injuries that were only on the side of the fish that was against the grating. The second photo shows the plastic mesh above orifice 5AN and behind the orifice light. The mesh has been repaired in this photo. The tear in the mesh was near the base of the light, where the mesh was also unattached to the toe board.

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