

**MEMORANDUM FOR THE RECORD 19TDA21 East Fishway Pump Status**

**SUBJECT: Status of dewatering pumps for the east fishway**

The East fishway was dewatered for annual maintenance during the first week of December 2019. There were delays completing the channels and entrances below tailwater due to competing workloads and limited pump capacity. Due to the pump limitations, questions were raised by fish managers about preventative maintenance program on the pumps. The following outlines the status of dewatering pumps.

The East fishway dewatering system consists of 10 pumps. These were installed in 2000 under a fishway dewatering improvement project because this area never had the ability to be dewatered since construction of the dam. All of these pumps remain submerged throughout the year, adding to the degradation. Routine preventative maintenance has been completed annually. Given the age of the pumps, project maintenance is in the third year of extensive pump overhauls. This requires complete removal and replacement of all parts as needed. Prior to the dewatering, two pumps had been removed for motor replacement. The project felt confident that the channels could be dewatered with 8 of the 10 pumps. During the dewatering, one pump failed completely and needs to be repaired. Two pumps experienced a flow failure meaning that the pump motor worked but the water was bubbling up around the pump instead of going out the drain pipe, possibly due to gasket seals. This essentially left the project with ~75% of total pump capacity. Sump pumps from the units were used to help augment pump capacity. Overhauls will continue until all have been rehabilitated. Most will receive new motors.

*Photos not available*

Sincerely,  
Bob Cordie  
Project Fisheries