CENWW-ODO **24 May, 2018**

MEMORANDUM FOR THE RECORD – 18 LMN 03 MFR Clogged Exit on Separator

SUBJECT: Exit hopper on the B (large fish) side of the separator was discovered plugged with woody debris on May 24 at approximately 04:30 am. Separator technicians worked at removing the clog and finally got it to break free around 05:10 am. A total of 41 dead juvenile salmonids were collected in the raceway due to this incident. Separator technicians are trained to check for blockage in the exits, however, some small blockages are extremely difficult to catch. Technicians were reminded to be persistent in checking to make sure the exit hoppers are free of debris during these high river flows. They have been instructed to check exits once an hour and document these checks. Gatewells are also being checked by the technicians first thing each morning to ensure the debris is removed before it reaches criteria levels.

Clipped CH1	Unclipped CH1	Clipped Steelhead	Unclipped Steelhead	Clipped CH0	Unclipped CH0	Clipped Sockeye	Unclipped Sockeye	Total
12	8	5	2	3	-	10	1	41

A. Species – Chinook salmon *Oncorhynchus tshawytscha*, Steelhead *Oncorhynchus mykiss* and Sockeye salmon *Oncorhynchus nerka.*
B. Origin – Hatchery and Wild
C. Length – N/A
D. Marks and tags – All fish were examined for PIT tags and coded wire tags (CWT) by PSMFC employees. Of the 41 fish, 2 were marked with PIT tags (Table 1) and 3 were marked with CWT. Of the 3 marked with CWT, 2 were unclipped yearling chinook and 1 was an unclipped sockeye salmon.
E. Marks and Injuries found on carcasses –descaling observed.
F. Cause and Time of Death – Exit hopper clogged on B side of separator discovered approximately 0430 hrs on 24 May.
G. Future and Preventative Measures – Project staff will continue to be vigilant in checking for debris in the separator exits and throughout the whole facility. Technicians have been instructed to check separator exits at least once per hour and document their findings. Also, additional gatewell checks will occur each morning to ensure the gatewells are being dipped before they hit criteria points stated in Fish Passage Plan.

Table 1: Ptagis data query pertaining to PIT tagged fish mortalities related to exit blockage.

Tag ID	Wild/Hatchery	Species/Run/Rear	Marks
3DD.0077799829	Hatchery	Steelhead	AD
3DD.0077D8AC75	Wild	Steelhead	

Sincerely,
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