

MEMORANDUM FOR THE RECORD

SUBJECT: 23 LMN 06 Fish Loss from Debris Blockage

Gatewells were cleaned at Units 1 and 2 on Thursday June 1, during the day by powerhouse crews. The debris in all three slots for each unit well exceeded 50% coverage for each slot. During the entire day on Thursday, debris was extremely high in the separator, even though the orifices were closed during the cleaning. There was an influx of logs, large sticks, small sticks, and garbage. Two debris clogs were removed from the B side count tanks, and one was removed from the B side flume during the time when the gatewells were being cleaned. Cleaning stopped at approximately 1630 for all gatewells.

As the evening went on the debris dissipated and became very low by Friday June 2. At 1545, the separator dewaterer was checked for debris using a long metal claw, after the level of water appeared low. The B side dewaterer was found to be nearly blocked. The biologist working the separator used a pole with a hook on it and a chimney sweep rod to break the debris blockage. Once the blockage broke free, the debris that was unable to be pulled out of the water traveled downstream and began to be trapped by the exit gate. Finally, all the debris was removed from the exit gate, count tanks, sample tanks and raceways. The whole process took approximately 65 minutes to remove all the debris.

All the mortalities recovered may not have been specifically from the debris blockage, however, the majority of them can be assumed to be from the issue. The mortalities were removed from the sample tanks, count tanks, separator, and raceways over a 2 day period.

- A. Species – See table
- B. Origin – N/A
- C. Length – Not measured
- D. Marks and tags – None observed
- E. Marks and Injuries found on carcass – Several degrees of injuries
- F. Cause and Time of Death –
- G. Future and Preventative Measures – The biologist and the biological technicians working were all instructed on how to handle major debris blockages. The supervisory biologist went over protocols that are established to check this areas more thoroughly for debris. In addition, the supervisory biologist will be discussing other possible protocols on how to handle the large debris load in the future when gatewells are cleaned by the powerhouse.

Facility Morts		Yearling Chinook		Subyearling Chinook		Steelhead		Coho	Sockeye		Daily Total
Day	Date	Clip	Unclip	Clip	Unclip	Clip	Unclip		Clip	Unclip	
SAT	3-Jun	24	21	19	10	55	9	0	0	0	138
SUN	4-Jun	3	5	9	2	15	6	0	0	0	40

Sincerely,
Denise Griffith
Supervisory Fish Biologist
Lower Monumental Dam
(509) 282-7211
Denise.S.Griffith@usace.army.mil