

MEMORANDUM FOR THE RECORD

SUBJECT: Cleaning Washington shore ladder count station slot while in orifice flow.

Narrative: During last winter's outage, the Washington ladder was not dewatered. Over time, algae growth has become quick thick on the floor and back board area of the count station slot. After consultation with the fish counting contractor's lead, it was determined it would be best to clean this area to improve fin clip detection and lamprey counting. Talking with the district fisheries biologist, led to the selection of the afternoon of June 1 as an opportune time for cleaning which should affect the least amount of fish passage as possible. Trying to clean this area had not worked before due to the velocity through the counting slot. Putting the ladder in orifice flow mode was thought to be the best way to attempt to reduce the velocity through the slot.

Location: McNary Washington shore fish ladder.

Method: From 1305 to 1445 hours, on June 1, the Washington shore ladder was switched into, sustained, and switched out of orifice flow mode. Water velocity was reduced but to reduce flow further, the count station slot isolation gate was closed several times during the cleaning. Also, for the last hour of the operation, the south side set of picketed leads were raised and all picketed leads were cleaned.

Brooms with scrub pads and a pressure washer were used to clean the count station slot. During the work, it was discovered that the window brush was not rotating. This issue will be resolved in the near future. The brush does not clean the back board, but it does clean part of the slot floor. The center of the back board is removable for cleaning, but it has a small surface area.

Timeline - Duration: 1 hr 40 min.

A. Species: NA

B. Origin: NA

C. Length: NA

D. Marks and Tags: NA

E. Marks and Injuries Found on the Carcasses: NA

F. Future and Preventative Measures: Further cleaning may be needed this season. During the next winter outage, ensure this area is cleaned and repainted.

G. Photos Taken: Yes, see below.

Bobby Johnson
Project Fisheries Biologist
McNary Lock and Dam



Before cleaning.



Orifice flow.

Visual F
Daily

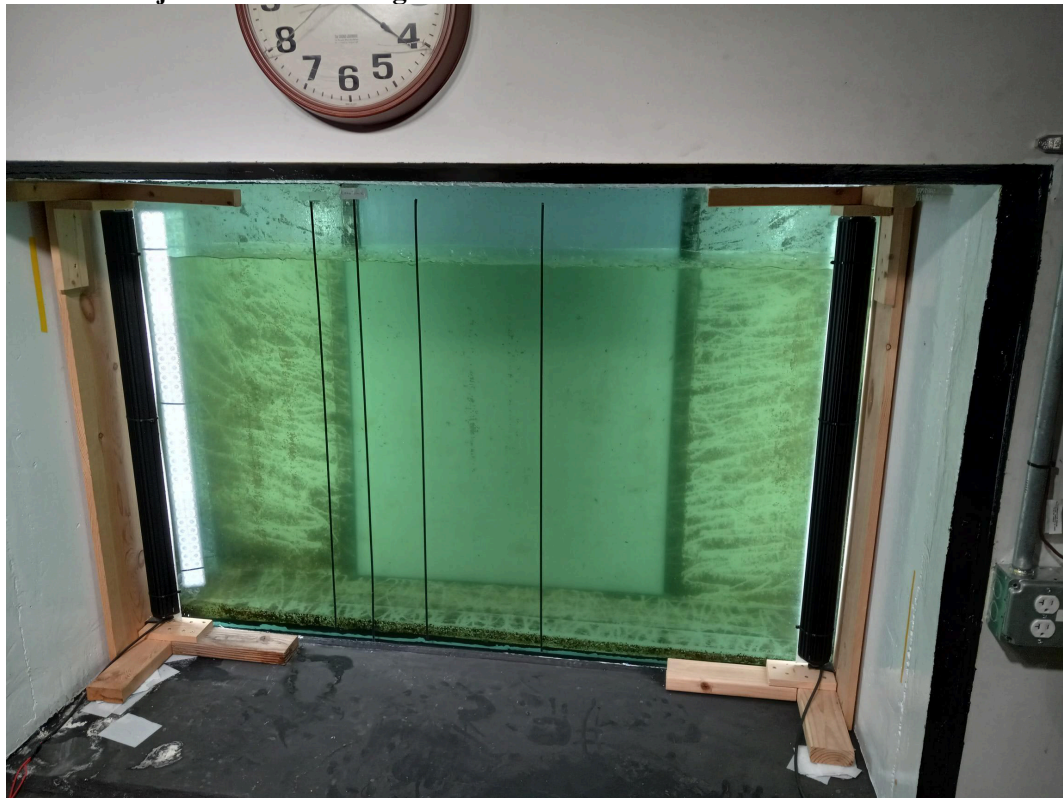
Project: McNary Count Station: W

Shift 1 Fish Counter: Patrick Shift

Hours	Chinook			Steelhead		Coho Jac
	Chinook Jack	Chinook Clipped	Chinook Unclipped	Steelhead Clipped	Steelhead Unclipped	
Shift 1						
1	—	2	3			
2	—	2	—			
3	—	1	—			
4	—	—	—			
5	—	1	—			
6	—	—	—			
7	4	2	3			
8	1	3	6			
Shift 2						
9						
10						
11						
12						
13						
14						
15						
16						

NOTES:

Fish counts just before cleaning.



After cleaning.