

**MEMORANDUM FOR THE RECORD: 21 LGS 05 Tailrace Inspection Results****SUBJECT: Tailrace Juvenile Mortalities**Background

Following rumors that dead fish were seen along the tailrace bank of Little Goose Dam during the 2020 spring migration and spill season, project biologists were asked to look for such occurrences during 2021. Starting April 1, in conjunction with bird counts, Juvenile Fish Facility staff began surveying the tailrace north shore as they are able with current responsibilities for JFF collection and transport operations.

The first dead salmonids were seen on 1 May and numbers since have ranged from 0 to 9 dead fish per day. The table below summarizes findings to date. Currently the cause of death is undetermined. Biologists will continue to survey the tailrace and collect fish for inspection.

Date	Time	CCH	UCH	CST	UST	Coho	Sockeye	Other	Other Species	Comments
9-Apr	945	0	0	0	0	0	0	140	Crayfish	Dry/stranded
10-Apr	1015	0	0	0	0	0	0	61	Crayfish	Dry/stranded
11-Apr	1000	0	0	0	0	0	0	21	Crayfish	Dry/stranded
16-Apr	1000	0	0	0	0	0	0	3	Crayfish	Dry/stranded
24-Apr	1000	0	0	0	0	0	0	1	Kelt	Unclipped adult steelhead kelt
1-May	1015	2	0	0	0	0	0	12	Crayfish	Returned to river
5-May	930	0	1	0	0	0	0	0		
5-May	1600	4	0	0	0	0	0	1	Shad	Fungus and no tail
6-May	1645	5	0	1	0	0	0	0		Dried out morts
8-May	1640	1	0	0	0	0	0	0		Distended abdomen
9-May	930	2	0	0	0	0	0	0		1 with exophthalmia (pop-eye)
9-May	1530	2	0	0	0	0	0	0		
10-May	930	7	1	0	0	0	0	1	Walleye	
10-May	1600	1	0	0	0	0	0	0		

Estimated mortalities by species, and origin:

- A. Species – Chinook salmon and steelhead
- B. Origin – N/A
- C. Length – Not collected
- D. Marks and tags – 25 of 27 fish observed were clipped. One PIT tagged fish, 3DD.003D71E30B, was recovered on 5 May.
- E. Marks and Injuries found on carcass – See above
- F. Cause and Time of Death – Unknown
- G. Future and Preventative Measures – Continue to survey tailrace for mortalities and inspect for condition

Sincerely,  
Scott St. John  
Project Fisheries Biologist  
Little Goose Dam  
(509) 399-2233 ext. 263  
Scott.St.John@usace.army.mil