The Dalles Dam Fishway Status Report

2/16/23

Inspection Period 04/09-0415, 2023

THE DALLES DAM



The Dalles Project-Fisheries P.O. Box 564 The Dalles, OR 97058-9998 Phone: 541-506-3800

	Inspections	Criteria	Total Number of Inspections: 14			Temperature: 46.2 °F			
The Dalles Dam	OOC	Limit			s flow in east ladder	Weekly Ave. Secchi:			
NORTH FISHWAY									
E 20 PW - C 1		4.0.51	HOITHI	OHIVA	. •				
Exit differential	0								
Count station differential	0								
Weir crest depth	0								
Entrance weir N1	0		Average for the week	10.2					
Entrance Differential	0	1.0' - 2.0'	Average for the week	1.3					
N2		Closed							
PUD Intake differential	0	≤ 0.5'							
			EAST FIS	HWAY	•				
Exit differential	0	≤ 0.5'							
Removable weirs 154-157	0	Per forebay							
Weir 158-159 differential	0	1.1' ± 0.1'							
Count station differential	0	≤ 0.3'							
153 Weir crest depth	0	1.3' ± 0.1'							
Junction pool weir JP6	0	> 7.0'	Weekly average	11.6					
East entrance differential	0	1.0' - 2.0'	Weekly average	1.4					
Entrance weir E1	0	No criteria	Weekly average	6.9					
Entrance weir E2	0	depth (≥ 8')	Weekly average	12.4					
Entrance weir E3	0	depth (≥ 8')	Weekly average	12.4					
Collection channel velocity	0	1.5 - 4 fps	, , ,						
Transportation channel velocity	0	1.5 - 4 fps							
North channel velocity	0	1.5 - 4 fps							
South channel velocity	0	1.5 - 4 fps							
West entrance differential	0	1.0' - 2.0'	Weekly average	1.4					
Entrance weir W1	0	depth (≥ 8')	Weekly average	10.4					
Entrance weir W2	0	depth (≥ 8')	Weekly average	10.4					
Entrance weir W3	0	No criteria	Weekly average	-1.6					
South entrance differential	0	1.0' - 2.0'	Weekly average	1.4					
Entrance weir S1	0	depth (≥ 8')	Weekly average	10.2					
Entrance weir S2	0	depth (≥ 8')	Weekly average	10.1					
			JUVENILE I	BYPAS	S				
Sluicegate operation	0	Units 1, 8, 18							
Turbine trashrack drawdown	0	<1.5', biwkly							
Spill volume/pattern	0	1 to 22							
Turbine Unit Priority	0	per FPP							
Gatewells	0	Weekly							
Catomono		VVCCRIY	Ī						

Current Outages

- -MU19 & MU20 FOOS 10/07/2018 1205 10/27/2023 1700 T10 ACETYLENE
- -MU12 OOS 04/12/2021 0001 9/22/2023 ANNUAL
- -MU3 OOS 04/17/2023 0630 04/27/2023 1700, ANNUAL
- -MU4 OOS 04/17/2023 0630 04/27/2023 1700, ANNUAL
- -MU3/4 OOS 04/17/2023 1200 04/27/2023 1230, T-2 MAINTENANCE

Maintenance

Reviving fish unit intake trashrack rake to be prepared if debris issues come up.

Entrance calibration some slightly off. All in criteria

Planning spill gates 9 and 10 cable and gearbox swap after bulkhead seal repair.

North count station crowder fixed.

Spillway assessment; Spillgates 1-9 rehab 2034. Spillway crane replace is first priority. Reviewing gate operation frequency.

Predators

Some gulls in count zones. Cormorants attempting to nest on BPA towers. ~20 individuals hazed off by falconry and air horn. Planning removal of bass/walleye/catfish from all dewaterings for gut sample analysis. Waiting on WDFW permit process. Falconry abatement at 10 days, to deter DCCO nesting on BPA towers. Success so far at stopping nesting

Research/Construction/Contractors

USGS river temperatures link

4 Peaks fish counters started Apr 1.

Supporting lamprey improvements PDT. Two of 4 exit weir modified with lamprey orifice,

Investigating mods for entrance weirs

PTAGIS fishladder data collection at count stations continues

Operations

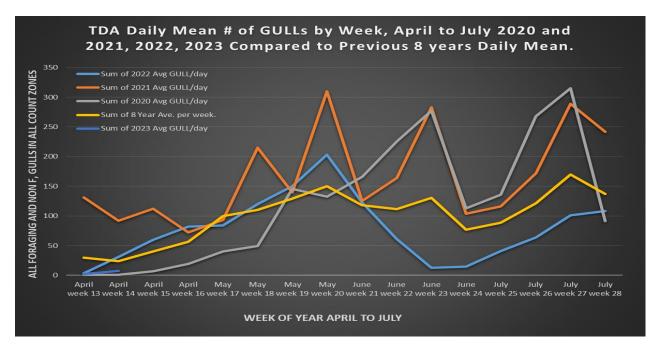
Sluice gates 1-1, 1-2, 1-3, 8-1, 8-3, 16-1. Moved to 6 gates open Apr1.

Approved by: Bryan Hert for Ron Twiner, Operation Project Manager, The Dalles Dam

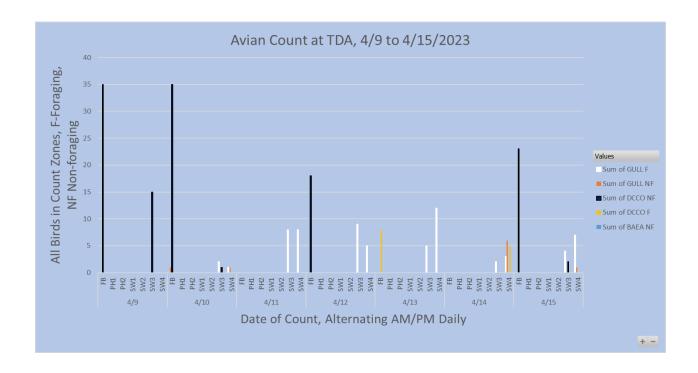
Bird Count Zones, Avian Lines and Laser Deterrent Sites

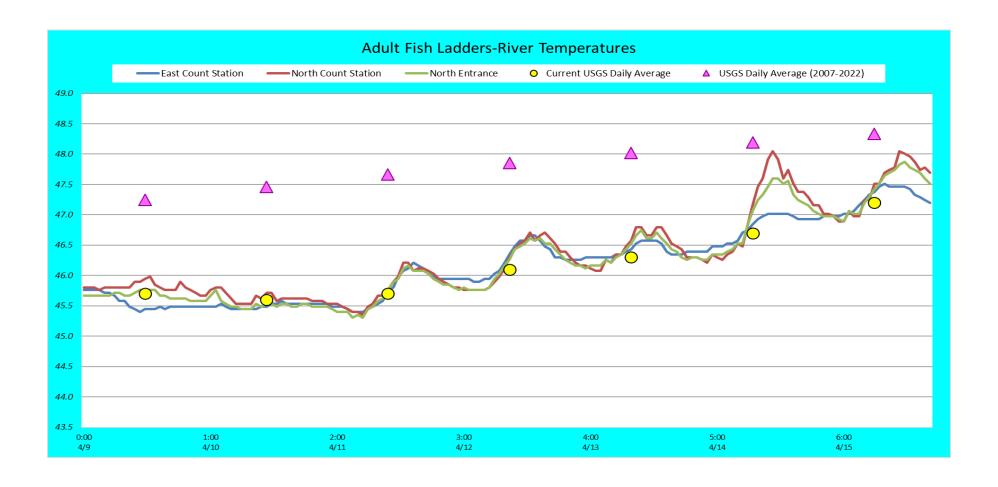






Slow gull start on gulls so far.





Secchi:		USGS F°
4.0	Sun	14-Feb-00
4.0	Mon	14-Feb-00
4.0	Tue	14-Feb-00
3.5	Wed	15-Feb-00
3.5	Thurs	15-Feb-00
3.5	Fri	15-Feb-00
3.5	Sat	16-Feb-00
3.7	AVG	46.2

Reporting week data

Date:	North Ladder		East Ladder											
			East Entrance				West Entrance				South Entrance			
	Differential	N1 Depth	Differential	E1 Depth	E2 Depth	E3 Depth	JP 6	Differential	W1	W2	W3	Differential	S1	S2
4/9	1.5	9.3	1.3	6.8	11.8	11.6	10.8	1.4	10.5	10.6	-2.7	1.3	10.6	10.4
	1.5	9.2	1.5	6.7	11.4	11.3	10.7	1.3	10.4	10.5	-2.7	1.3	10.5	10.3
4/10														
	1.4	10.1	1.5	6.8	12.0	11.9	10.8	1.3	10.5	10.5	-2.3	1.3	10.2	10.1
	1.2	10.0	1.4	7.0	12.2	12.1	11.0	1.3	10.6	10.7	-2.1	1.4	10.4	10.2
4/11	1.4	10.1	1.4	7.8	12.4	12.3	11.8	1.5	10.3	10.3	-1.5	1.4	10.2	10.2
	1.3	10.4	1.5	7.3	11.9	11.8	11.3	1.5	10.1	10.1	-1.8	1.4	10.4	10.3
4/12	1.3	10.5	1.4	8.3	12.7	12.5	12.3	1.3	10.9	10.9	-1.0	1.4	10.0	9.9
	1.3	10.0	1.4	8.3	12.7	12.5	12.3	1.4	10.5	10.6	-0.8	1.4	10.0	9.9
4/13														
	1.4	10.5	1.5	8.6	12.4	12.2	12.6	1.4	10.5	10.6	-0.6	1.4	10.2	10.1
	1.4	10.5	1.4	8.8	12.5	12.3	12.8	1.3	10.7	10.7	-0.5	1.3	10.3	10.1
4/14														
	1.3	10.7	1.4	6.9	13.0	12.9	11.9	1.5	9.9	9.9	-1.3	1.5	9.9	9.9
	1.3	10.6	1.3	7.0	13.0	13.0	12.0	1.5	9.9	9.9	-1.3	1.4	10.4	10.3
4/15														
	1.3	10.6	1.5	3.4	12.9	12.9	11.4	1.5	10.3	10.3	-1.8	1.3	10.3	10.3
	1.3	10.6	1.6	3.4	12.9	12.9	11.4	1.4	10.3	10.4	-1.8	1.5	10.1	9.9
AVG:			1.4	6.9	12.4	12.3	11.6	1.4	10.4	10.4	-1.6	1.4	10.2	10.1

Fishways inspected daily