The Dalles Dam Fishway Status Report

2/19/23

Inspection Period 2/12-2/18, 2023

THE DALLES DAM



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

The Dellas Dam	Inspections	Criteria	Total Number of Inspections:		7	Temperature:	37.6	°F	
The Dalles Dam	ООС	Limit	Comments:		flow in east ladder	Weekly	4.9		
			NORTH FI	SHWA'	Υ				
Exit differential	0	≤ 0.5'							
Count station differential	0	≤ 0.3'							
Weir crest depth	0	1.0' ± 0.1'							
Entrance weir N1	0	depth (≥ 8')	Average for the week	9.1					
Entrance Differential	0	1.0' - 2.0'	Average for the week	1.4					
N2	0	Closed	, ,	•					
PUD Intake differential	0	≤ 0.5′							
			EAST FIS	HWAY					
Exit differential	0	≤ 0.5'							
Removable weirs 154-157	0	Per forebay	Note; 155 weir hoist fa	ailed.					
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	9.3					
ast entrance differential	0	1.0' - 2.0'	Weekly average	1.4					
Entrance weir E1	0	No criteria	Weekly average	2.0					
Entrance weir E2	0	depth (≥ 8')	Weekly average	9.5					
Entrance weir E3	0	depth (≥ 8')	Weekly average	9.5					
Collection channel velocity	0	1.5 - 4 fps	1.6 fps 11/3						
Transportation channel velocity	0	1.5 - 4 fps	4.3 fps 11/3						
North channel velocity	0	1.5 - 4 fps	3.32 fps 11/5						
South channel velocity	0	1.5 - 4 fps	4.47 fps 10/15						
Nest 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	8.9					
Entrance weir W3	0	No criteria	Weekly average	-4.2					
South entrance differential	0	1.0' - 2.0'	Weekly average	1.5					
Entrance weir S1	0	depth (≥ 8')	Weekly average	9.5					
Entrance weir S2	1	depth (≥ 8')	Weekly average	7.2	Oil pressure fa	ilure FU1. Brief singl	e fish unit ope	eration	
			JUVENILE	BYPASS	S				
Sluicegate operation	0	Units 1. 8. 18	Intakes MU1, 8, 16 ar	nd 18 open to	recirculate. Endoa	te closed.			
Turbine trashrack drawdown	0		Nothing to report.						
Spill volume/pattern	0	1 to 22	NO SPILL.						
Turbine Unit Priority	0	per FPP							
Gatewells	0		No fish seen.						

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

MU18 OOS 08/29/2022 0630-2/16/2023 1700, ANNUAL

T9 OOS 02/06/2022 0630 - 02/16/2022 1700, T9 TESTING

MU17 OOS 02/06/2023 0630 – 03/30/2023 1700, TURBINE BEARING

MU17 & MU18 OOS 02/06/2023 0630 – 03/30/2023 1700 FOR STRAINER

MU2 OOS 02/08/2023 1132-02/16/2023@1700 LOW GOV OIL

Navlock OOS 3/6/23

MU13 FOOS 02/14/2023 1112 - 03/01/2023 1700 LOW GOV OIL

Maintenance

Plan for fish unit intake trashrack rake to be usable by March 1

Weir 155 replacing gearbox bearings. Completion by March 1.

AWS intake trashrack debris management - PDT reviewing alternatives.

Planning spill gates 9 and 10 cable and gearbox swap. Now bulkhead seals replacement needed. Completion estimate March

Spillway assessment; Spillgates 1- 9 rehab 2034. Includes spillbay 9 trunnion pin repair. Spillway crane first priority

North count station brush motor replaced. Still not making contact with rear crowder.

North fishladder intake trashrack minor repairs completed.

North count station crowder drive repaired.

East entrance having trouble with low tailwater, resulting in slack cable. Working on limits. Running in manual.

Predators

Bald eagles greatly reduced with mild air temp. Only individual scouting gulls on project briefly. DCCO numbers greatly reduced. Planning removal of bass/walleye/catfish from all dewaterings for gut sample analysis. Presently in WDFW permit process.

Research/Construction/Contractors

4 peaks video counting will occur through winter.

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

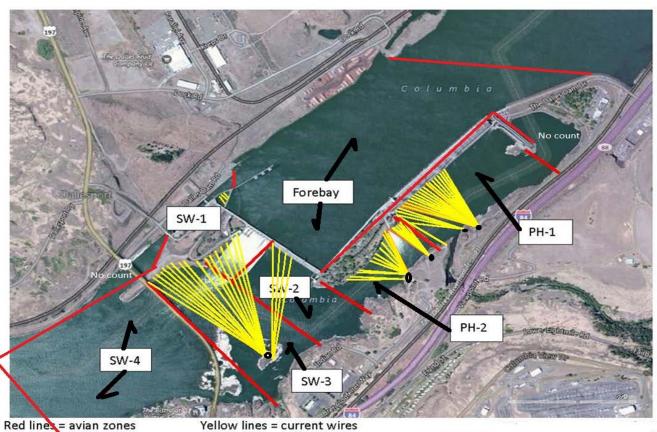
Operations

Ice Trash sluiceway endgate closed. Sluicegates open to forebay.

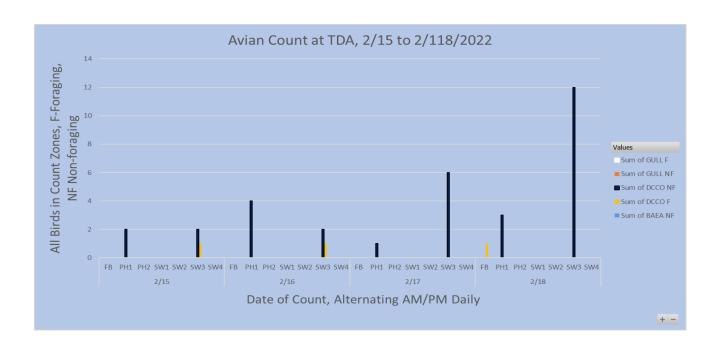
East fishway in service with 1 fish unit #2. North fishladder in service with no attraction flow for maintenance.

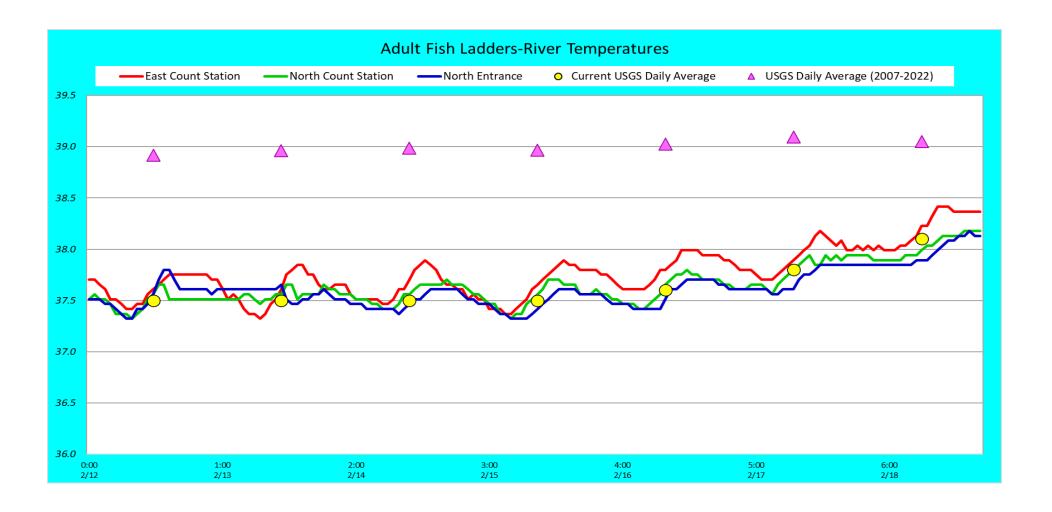
Approved by: Ron Twiner, Operation Project Manager, The Dalles Dam

Bird Count Zones, Avian Lines and Laser Deterrent Sites









Secchi:		USGS F°			
5.0	Sun	37.5			
5.0	Mon	37.5			
5.0	Tue	37.5			
5.0	Wed	37.5			
5.0	Thurs	37.6			
5.0	Fri	37.8			
4.0	Sat	38.1			
4.9	AVG	37.6			

Reporting week data

	North Ladder		East Ladder											
Date:			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
2/12			1.4	2.3	11.3	11.3	9.3	1.4	10.4	10.5	-4.2	1.5	9.3	9.4
2/13	1.5		1.4	2.2	12.6	11.4	9.2	1.5	10.3	10.3	-4.4	1.4	8.9	8.9
2/14	1.3	9.1	1.5	-3.3	-3.3	10.8	9.8	1.4	11.2	0.3	-3.8	1.5	11.1	-4.2
2/15	1.3	9.2	1.5	0.5	12.0	12.0	9.4	1.5	10.0	10.0	-4.1	1.5	9.4	9.4
2/16			1.5	3.8	10.9	12.3	8.8	1.6	9.8	9.9	-4.6	1.4	9.2	8.3
2/17	1.3	9.1	1.4	3.8	10.9	12.3	8.8	1.4	10.3	10.4	-4.5	1.5	9.1	9.2
2/18	1.5	9.1	1.1	4.7	12.1	12.1	9.7	1.3	10.7	10.7	-4.0	1.5	9.5	9.5
AVG:	1.4	9.1	1.4	2.0	9.5	11.7	9.3	1.4	10.4	8.9	-4.2	1.5	9.5	7.2

Fishways inspected daily