The Dalles Dam Fishway Status Report

9/24/23

Inspection Period 09/17-09/23, 2023

THE DALLES DAM



The Dalles Project-Fisheries P.O. Box 564
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The Dalles Dam	Inspections	Criteria	Total Number of Insp	14	Temperature: 67.9°F					
	ooc	Limit	Comments:	Fall condition	ons	Weekly Av	e. Secchi:	5.6		
			NORTH FI	SHWA	AY .					
Exit differential	0	≤ 0.5'								
Count station differential	0	≤ 0.3'								
Weir crest depth	0	1.0' ± 0.1'								
Entrance weir N1	1		Average for the week							
Entrance Differential	0		Average for the week	1.4						
N2		Closed								
PUD Intake differential	6	≤ 0.5'	Likely due to aquatic v	veeds on i	ntake. Rake under repa	air by PUD.				
			EAST FIS	AWH	Y					
Exit differential	0	≤ 0.5'			<u> </u>					
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' ± 0.1'	1.0' per FPP.							
Junction pool weir JP6	0	> 7.0'	Weekly average	10.3						
East entrance differential	0	1.0' - 2.0'	Weekly average	1.5						
Entrance weir E1	0	No criteria	Weekly average	3.2						
Entrance weir E2	0	depth (≥ 8')	Weekly average	10.9						
Entrance weir E3	0	depth (≥ 8')	Weekly average	10.9						
Collection channel velocity	0	1.5 - 4 fps	2.18 west 9/5/23		•					
Transportation channel velocity	0	1.5 - 4 fps	2.96 fps 9/5/23							
North channel velocity	0	1.5 - 4 fps	3.08 fps 9/13/23							
South entrance	0	1.5 - 4 fps	4.01 fps 9/13/23							
West entrance differential	0	1.0' - 2.0'	Weekly average	1.5						
Entrance weir W1	4	depth (≥ 8')	Weekly average	8.3	Due to low tailwater of	conditions				
Entrance weir W2	4	depth (≥ 8')	Weekly average	8.4	Due to low tailwater of	conditions				
Entrance weir W3	0	No criteria	Weekly average	-2.3						
South entrance differential	0	1.0' - 2.0'	Weekly average	1.4						
Entrance weir S1	4	depth (≥ 8')	Weekly average	8.2	Due to low tailwater of	conditions				
Entrance weir S2	2	depth (≥ 8')	Weekly average	8.2	Due to low tailwater of	conditions				
			JUVENILE I	BYPAS	SS					
Sluicegate operation	0	Units 1, 8, 18	1-8-18 gates open.							
Turbine trashrack drawdown	0		9/16/2023 All MUs and FUs in criteria.							
Spill volume/pattern	0	1 to 22	Spill closed							
Turbine Unit Priority	0	per FPP								
Gatewells	0		9/16/2023 no mortality							

Current Outages

MU4 OOS 04/17/2023 0630 - 9/28/2023 1700, ANNUAL

MU19 & MU20 FOOS 10/07/2018 1205 – 10/31/2025 1700 T10 ACETYLENE

Maintenance

Working on contract for north ladder vegetation removal in Feb

Planning spill gates 9 and 10 cable and gearbox swap. Possible this fall/winter.

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

Diffuser grating damage discovered at east entrance. Dive repair completed 8/22. Reduced flow 5kcfs to 4 kcfs rest of season.

Fixed East exit oil boom on 9/13

Calibrations all within criteria 9/21

Predators

Northern Pikeminnow Management Program 2366 YTD

Planning removal of bass/walleye/catfish from all dewaterings for gut sample analysis. Working on permit.

Trial of Tori lines installed at east, south and west entrance

Pacific Lamprey translocation season ended 9/6 w/ a grand total of 1501 fish captured/translocated

Western gulls on project. DCCO unable to feed at entrances but returned to east exit. Pelicans absent.

Research/Construction/Contractors

USGS temperature link- September

4 Peaks fish count ending 10/31

Supporting lamprey improvements PDT. Two of 4 exit weir modified with lamprey orifice, other 2 next winter.

Planning for install of junction pool lamprey trap and entrance weir modiifications via contractor this winter.

ODFW conducting monthly fishway inspections.

PTAGIS fishladder data collection at count stations continues

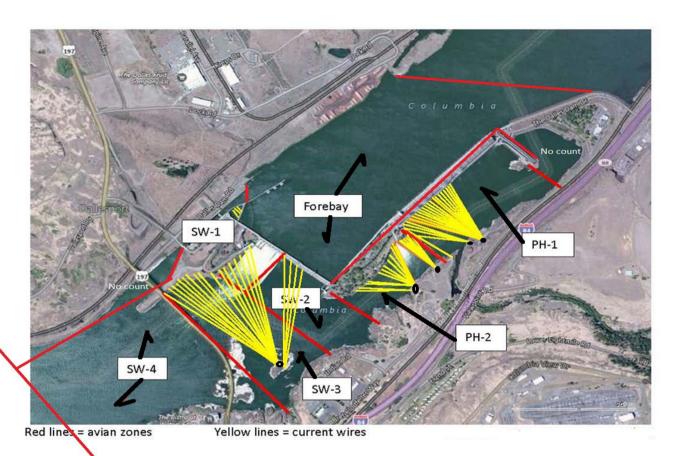
zebra/quagga mussel samples collected on 9/12/2022

Operations

Sluice gates 1-1, 1-2, 1-3, 8-1, 8-3, 18-2 in accordance with fish passage criteria

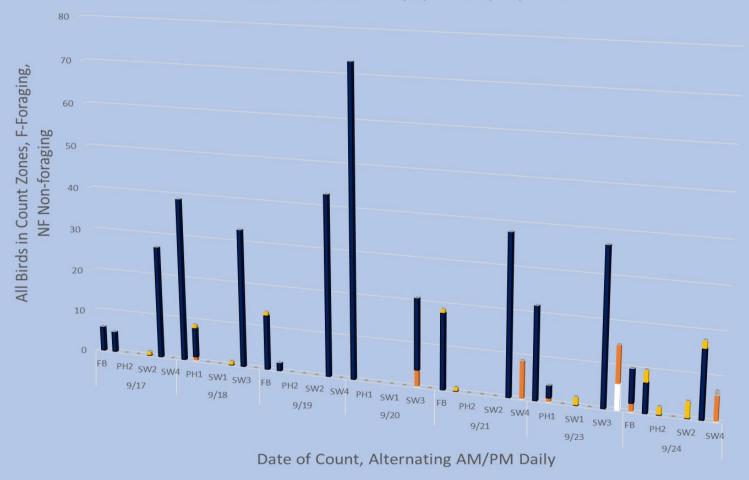
Approved by: Ron Twiner, Operation Project Manager, The Dalles Dam

Bird Count Zones, Avian Lines and Laser Deterrent Sites



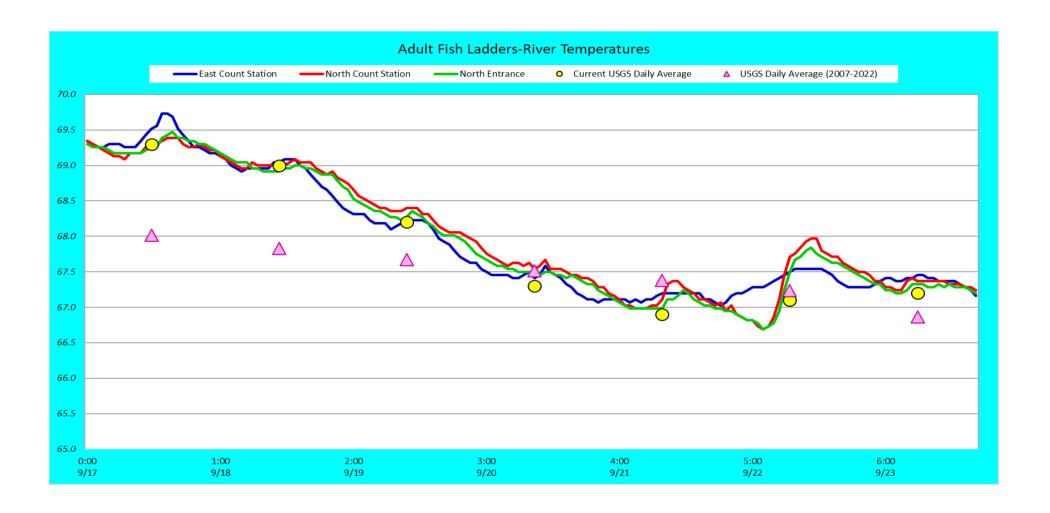


Avian Count at TDA, 9/17 to 9/24/2023



Sum of GULL F

Values



Secchi:		USGS
6.0	Sun	69.3
6.0	Mon	69.0
5.0	Tue	68.2
6.0	Wed	67.3
5.0	Thurs	66.9
5.0	Fri	67.1
6.0	Sat	67.2
5.6	AVG	67.9

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
9/17	1.5	9.3	1.5	2.6	10.7	10.9	9.7	1.6	7.5	7.5	-3.0	1.4	8.2	8.3
	1.4	9.5	1.3	3.1	11.2	11.4	10.2	1.3	8.5	8.4	-3.0	1.4	8.3	8.1
9/18														
	1.3	9.3	1.4	3.3	11.2	11.4	10.4	1.3	8.6	8.6	-2.3	1.4	8.2	8.3
	1.5	9.3	1.5	3.3	11.2	11.4	10.3	1.3	8.6	8.6	-2.3	1.4	8.3	8.3
9/19	1.4	9.4	1.5	3.1	11.0	11.2	10.2	1.4	8.2	8.2	-2.5	1.5	7.9	7.9
	1.5	9.3	1.4	3.4	11.3	11.5	10.4	1.5	8.3	8.3	-2.4	1.4	8.4	8.4
9/20														
	1.3	10.5	1.4	3.3	11.2	11.4	10.4	1.3	8.5	8.5	-2.2	1.4	8.1	8.3
	1.3	9.5	1.4	3.3	11.2	11.4	10.4	1.3	8.5	8.5	-2.2	1.4	8.1	8.3
9/21														
	1.3	9.5	1.6	3.5	10.5	10.7	10.6	1.5	8.1	10.1	-2.1	1.6	7.9	7.9
	1.4	9.5	1.5	3.7	10.6	10.8	10.7	1.5	8.2	8.2	-2.0	1.4	8.7	8.6
9/22	1.3	-1.3	1.7	3.2	10.4	10.6	10.2	TYPO	9.7	9.7	-0.4	1.6	7.9	8.1
	1.6	9.2	1.6	3.3	10.7	10.9	10.3	1.5	7.7	7.7	-2.5	1.3	8.4	8.3
9/23														
	1.3	9.4	1.6	3.2	10.8	10.7	10.2	1.6	7.8	7.8	-2.4	1.3	8.0	8.0
	1.3	9.5	1.7	3.1	10.7	10.6	10.1	1.6	7.8	7.8	-2.4	1.5	7.9	8.0
AVG:	1.4	8.7	1.5	3.2	10.9	11.1	10.3	1.5	8.3	8.4	-2.3	1.4	8.2	8.2

Fishways inspected twice daily

