

# The Dalles Dam Fishway Status Report

8/27/23

Inspection Period 08/27-09/02, 2023

## THE DALLES DAM



US Army Corps  
of Engineers  
Portland District

The Dalles Project-Fisheries  
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<b>The Dalles Dam</b>	Inspections OOC	Criteria Limit	Total Number of Inspections: 14		Temperature: 71.1 °F
			Comments:		Weekly Ave. Secchi: 5.0

### NORTH FISHWAY

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	9.6	
Entrance Differential	0	1.0' - 2.0'	Average for the week	1.3	
N2		Closed			
PUD Intake differential	0	≤ 0.5'			

### EAST FISHWAY

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' ± 0.1'	1.0' per FPP.		
Junction pool weir JP6	0	> 7.0'	Weekly average	10.7	
East entrance differential	0	1.0' - 2.0'	Weekly average	1.6	
Entrance weir E1	0	No criteria	Weekly average	5.7	
Entrance weir E2	0	depth (≥ 8')	Weekly average	10.0	
Entrance weir E3	0	depth (≥ 8')	Weekly average	10.0	
Collection channel velocity	0	1.5 - 4 fps	3.21 east entrance 8/5/23		
Transportation channel velocity	0	1.5 - 4 fps	3.99 fps 8/4/23		
North channel velocity	0	1.5 - 4 fps	2.77 fps 7/15/23		
South entrance	0	1.5 - 4 fps	5.02 fps 8/5/23		
West entrance differential	0	1.0' - 2.0'	Weekly average	1.5	
Entrance weir W1	8	depth (≥ 8')	Weekly average	8.1	
Entrance weir W2	10	depth (≥ 8')	Weekly average	7.7	
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	0	depth (≥ 8')	Weekly average	8.5	
Entrance weir S2	1	depth (≥ 8')	Weekly average	8.4	

### JUVENILE BYPASS

Sluiceway operation	0	Units 1, 8, 18	1-8-18 gates open.		
Turbine trashrack drawdown	0	<1.5', biwklly	8/27/2023 All MUs and FUs in criteria.		
Spill volume/pattern	0	1 to 22	1-8 bays in operation daily		
Turbine Unit Priority	0	per FPP			
Gatewells	0	Weekly	8/27/2023 .		

## Current Outages

MU4 OOS 04/17/2023 – 9/28/2023, ANNUAL  
MU19 &20 OOS 10/7/18 - 10/31/25, T10 acetylene  
MU12 OOS 04/12/2021 – 9/22/2023 ANNUAL

## Maintenance

Working on contract for north ladder vegetation removal  
Planning spill gates 9 and 10 cable and gearbox swap.  
Spillway assessment; Spillgates 1- 9 rehab 2034. Spillway crane replace first priority. Reviewing gate operation frequency.  
8/27/23 Calibrations for the east and north fishways are all in criteria.

## Predators

USDA hazing ended 7/31  
Planning removal of bass/walleye/catfish from all dewaterings for gut sample analysis. Working on permit.  
Planning construction of custom tori lines for other ladder entrance locations.  
Northern Pikeminnow Management Program 28 for the week, 2290 YTD. Also removing bass and walleye, 114 YTD.

## Research/Construction/Contractors

USGS temperature link-  
4 Peaks conduction fish c [August °F](#)  
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 modifications via contractor this winter.  
ODFW conducting monthly fishway inspections.  
PTAGIS fishladder data collection at count stations continues  
lamprey translocation #'s as of 8/27-at 1447 YTD  
zebra/quagga mussel samples collected on 8/26/2023

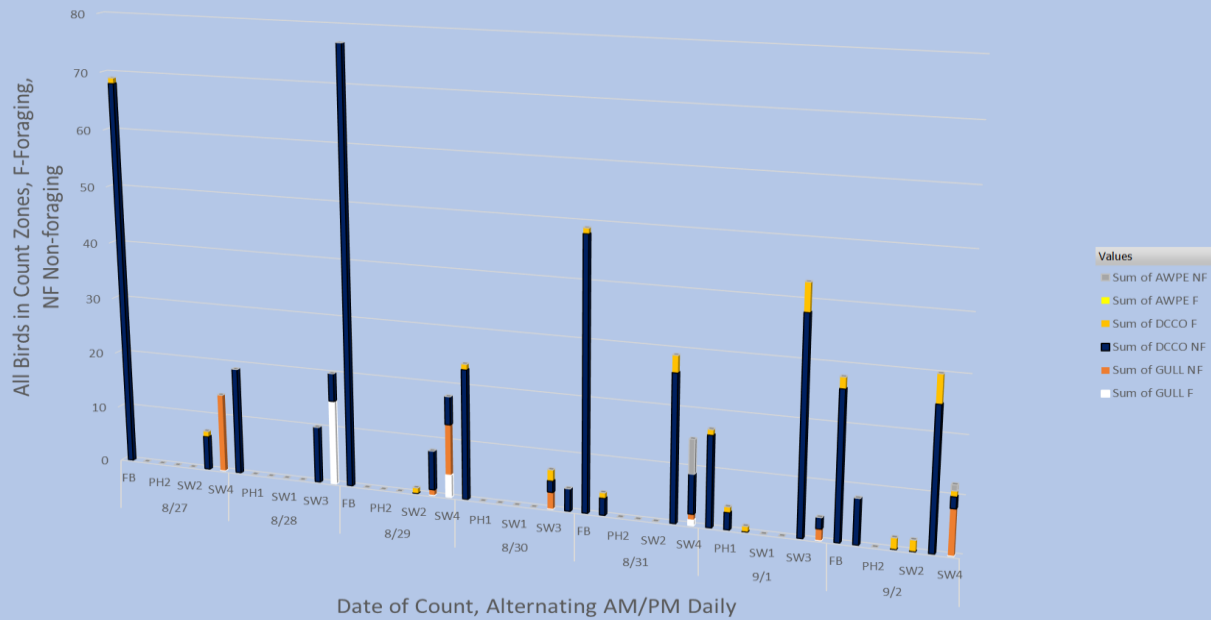
## Operations

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

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

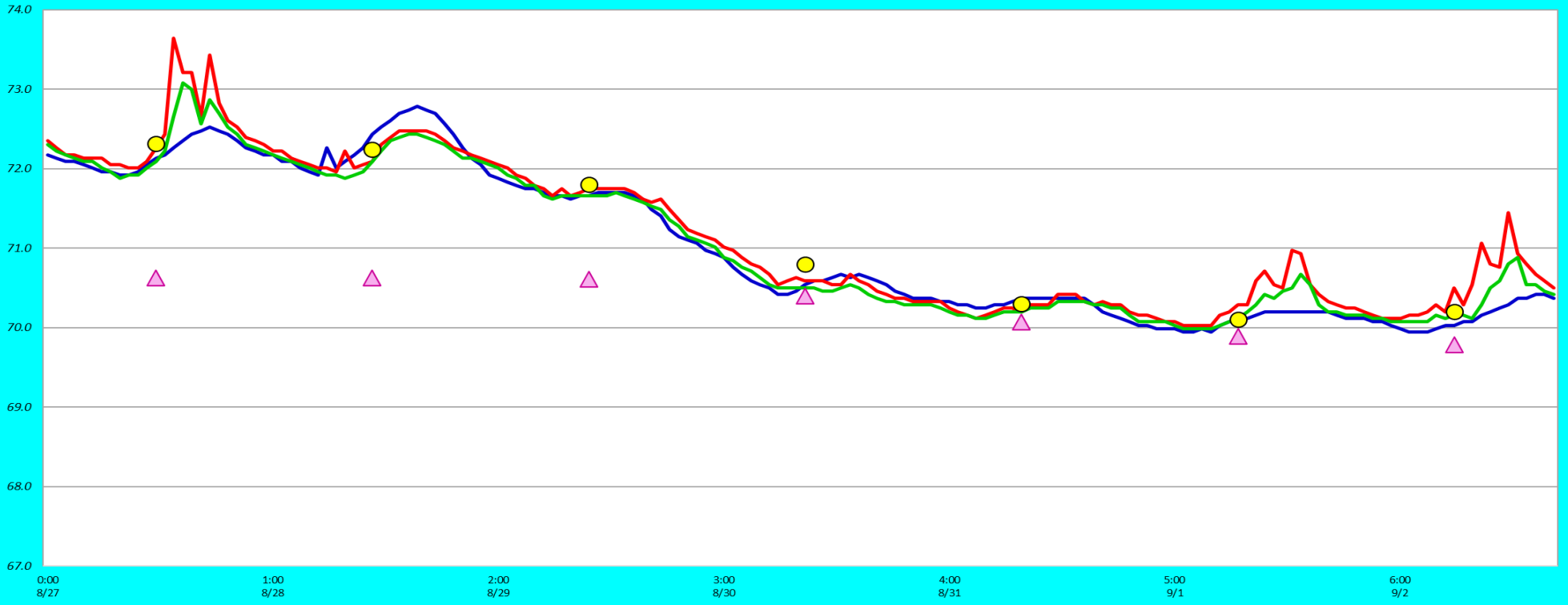


Avian Count at TDA, 8/27 to 9/2/2023



### Adult Fish Ladders-River Temperatures

— East Count Station    — North Count Station    — North Entrance    ● Current USGS Daily Average    ▲ USGS Daily Average (2007-2022)



Secchi:		E & N ladders
5.0	Sun	72.3
5.0	Mon	72.2
5.0	Tue	71.8
5.0	Wed	70.8
5.0	Thurs	70.3
5.0	Fri	70.1
5.0	Sat	70.2
5.0	AVG	71.1

## 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
8/27	1.2	9.7	1.7	5.9	9.5	9.6	10.3	1.6	7.7	7.8	-2.2	1.4	8.3	8.3
	1.4	9.6	1.7	5.6	9.5	9.6	10.0	1.5	7.9	7.8	-2.1	1.3	8.8	8.8
8/28	1.2	9.8	1.6	6.5	9.7	9.8	10.9	1.5	7.9	8.0	-1.7	1.5	8.4	8.5
	1.3	9.5	1.4	7.0	10.3	10.3	11.5	1.4	8.3	8.3	-1.3	1.3	8.8	8.8
8/29	1.5	9.4	1.6	6.8	9.6	9.7	11.2	1.7	7.5	7.5	-2.3	1.4	8.4	8.3
	1.4	9.5	1.6	6.4	9.5	9.6	10.8	1.6	7.4	7.4	-2.4	1.3	8.7	8.6
8/30	1.5	9.4	1.6	6.3	9.6	9.7	10.7	1.5	7.8	7.9	-2.5	1.3	8.8	8.7
	1.2	9.6	1.6	6.2	9.5	9.6	10.6	1.6	7.7	7.8	-2.6	1.4	8.5	8.4
8/31	no data	no data	1.5	6.7	9.8	9.9	11.1	1.6	6.8	7.9	-2.2	1.4	8.6	8.6
	1.3	9.9	1.5	7.2	10.3	10.5	11.6	1.5	8.3	8.4	-1.7	1.4	8.5	8.3
9/1	1.2	9.6	1.5	3.8	11.3	11.3	10.3	1.5	9.1	7.3	-2.8	1.4	8.1	8.0
	1.3	9.5	1.4	4.0	11.0	11.0	10.5	1.4	9.4	7.5	-2.5	1.5	8.4	8.4
9/2	1.2	9.6	1.5	3.6	10.2	10.2	10.1	1.7	8.7	6.8	-3.2	1.5	8.1	7.9
	1.3	9.4	1.6	3.5	10.1	10.1	10.0	1.5	9.2	7.2	-2.7	1.4	8.3	8.3
<b>AVG:</b>	<b>1.3</b>	<b>9.6</b>	<b>1.6</b>	<b>5.7</b>	<b>10.0</b>	<b>10.1</b>	<b>10.7</b>	<b>1.5</b>	<b>8.1</b>	<b>7.7</b>	<b>-2.3</b>	<b>1.4</b>	<b>8.5</b>	<b>8.4</b>

*Fishways inspected twice daily*



Deployed west entrance tori line and cormorant soon departed 9/1/23