The Dalles Dam Fishway Status Report

5/5/24

Inspection Period 4/27 - 5/4, 2024

THE DALLES DAM



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

The Dalles Dam	Inspections	Criteria	Total Number of Ins			14	Temperature:	53.		
The Dalles Dalli	OOC	Limit	Comments:	Fishways in f	Weekly Ave. Secchi: 4					
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		10.5					
Entrance Differential	0	1.0' - 2.0'	Average for the week		1.4					
N2		Closed								
PUD Intake differential	5	≤ 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'	1.2' 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	4.3	1					
Entrance weir E2	0	depth (≥ 8')	Weekly average	11.3						
Entrance weir E3	0	depth (≥ 8')	Weekly average	11.3						
East channel velocity	0	1.5 - 4 fps	4.21 fps 4/20/24							
Transportation channel velocity	0	1.5 - 4 fps	3.47 fps 4/15/24							
North channel velocity	0	1.5 - 4 fps	2.52 fps 4/13/24							
South entrance velocity	0	1.5 - 4 fps	4.02 fps 4/20/24							
West entrance differential	0	1.0' - 2.0'	Weekly average	1.4						
Entrance weir W1	0	depth (≥ 8')	Weekly average	10.0						
Entrance weir W2	0	depth (≥ 8')	Weekly average	10.2						
Entrance weir W3	0	No criteria	Weekly average	-3.1						
South entrance differential	0	1.0' - 2.0'	Weekly average	1.3						
Entrance weir S1	0	depth (≥ 8')	Weekly average	10.5						
Entrance weir S2	0	depth (≥ 8')	Weekly average	10.3						
			JUVENILE	BYPAS	S					
Sluicegate operation	0	Units 1,8,22	22 sluicegate open while MU18 is OOS. Endgate open.							
Turbine trashrack drawdown	0									
Spill volume/pattern	0	1 to 22	ITS open, spilling gates 1-8							
Turbine Unit Priority	0	per FPP	MU1 and MU22 in criteria due to MU18 OOS. RTS 4/25/24							
Gatewells	0	Weekly								

Current Outages

MU11 OOS 3/25/24 0630 – 5/30/24 1700 – Annual and Thrust Bearing Oil Cooler

MU19 & MU20 Forced-OOS 10/07/2018 1205 – 10/31/2025 1700 T10 ACETYLENE

Maintenance

Calibrations performed on 5/02, all within limits

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

Lamprey LPS contractor installed flumes and holding tank complete and tested. Planning operation start mid May pending OM manual.

DC lower guide bearing pump replaced on FU1

Predators

No recent otter sign or sea lion sightings. Pelicans showed up in small numbers, feeding in SW4.

Bird Gard sound system installed on BPA towers 3/14. Set to cycling on this week during 24 hours a day for cormorants.

Tori lines installed at east, west and south. Mobile Bird Gard operating at peninsula in SW4. Gull effigies in use to deter predators.

Some eagles on project. DCCO on BPA towers greatly reduced and easily flushed from nests (48). Gulls predominately juvenile plumage.

Falconry started 27 April focused on DCCO on BPA towers. RC boat performed well at pushing feeding gulls west from feeding hotspot.

Osprey spending significant time feeding in spill water and nesting.

Researchers

USGS temperature link- April

4 Peaks fish count Resumed 4/1

No new stomachs from gull taken. Preparations made to take fish GI/Stomach contents.

USDA began lethal gull again and took one juvenile CAGU. DCCO take on hold.

WDFW Dam Angling begin 30 April 2024

Operations

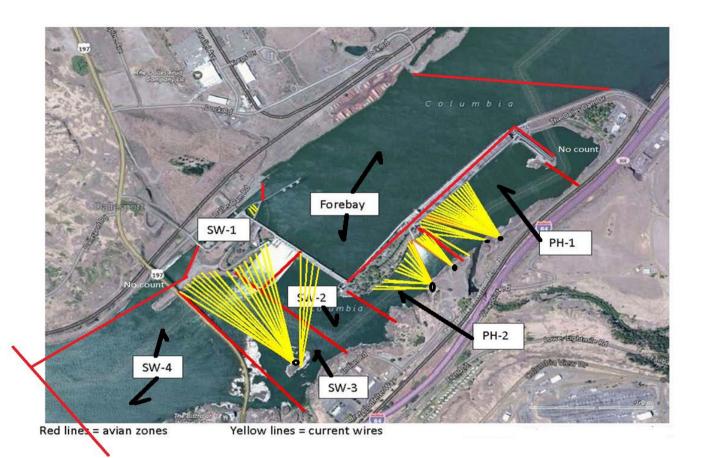
Both fishladders in full operation.

Spillway opened 4/10 40%

EFL AWS Backup opened 3 hours on 29 April

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

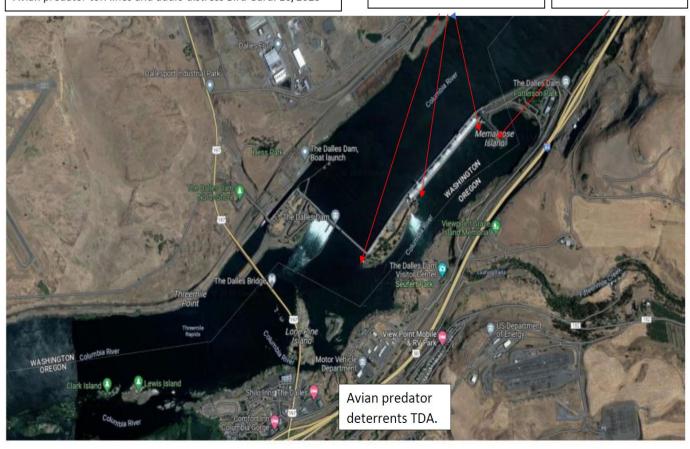
Bird Count Zones, Avian Lines and Deterrent Sites

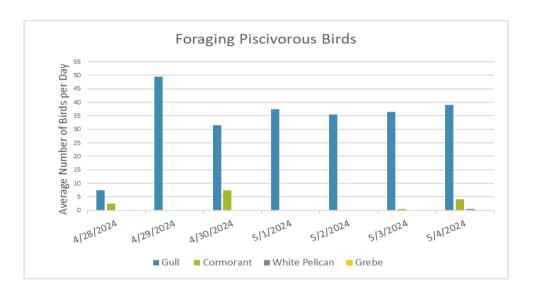


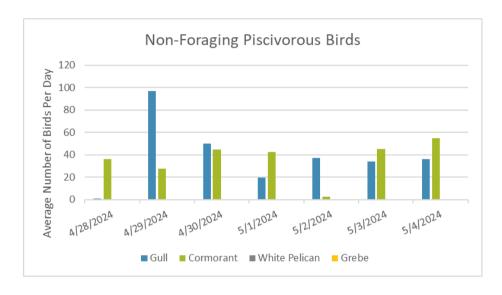
Avian predator tori lines and audio distress Bird Gard. 10/2023

Tori lines at East Ladder entrances.

Bird Gard audio deterrent.



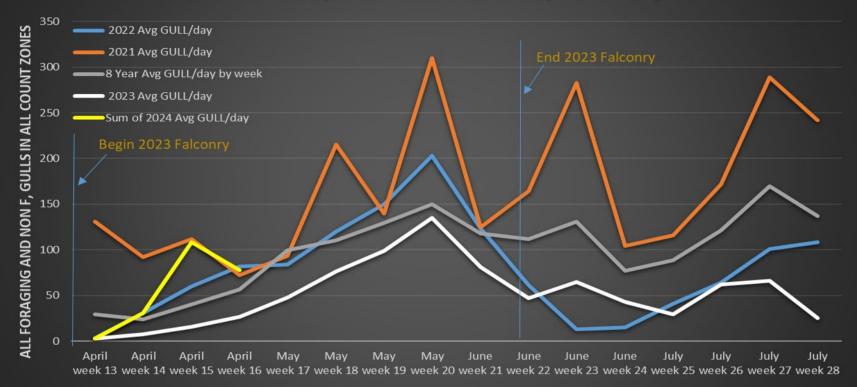




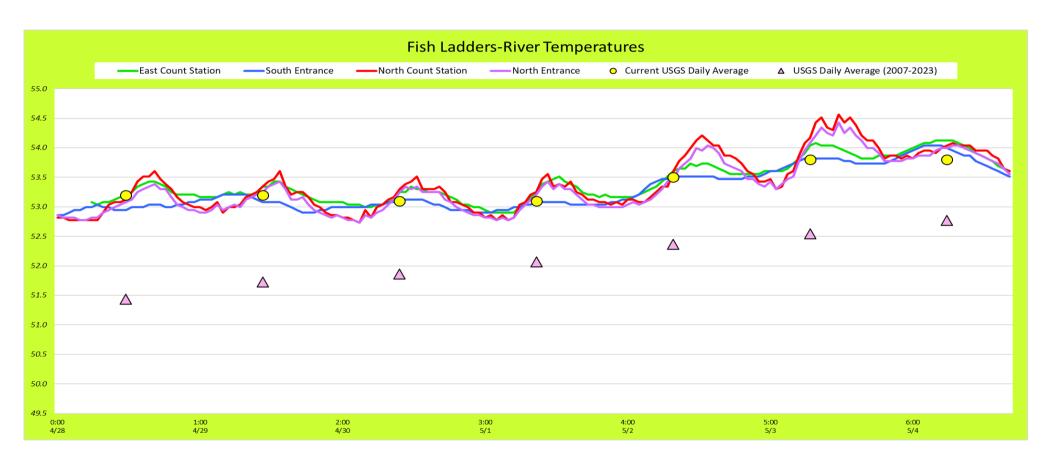
Bird numbers reduced this week from unusual highs last week.

Pyro boat work is very effective but gulls return rapidly after boat work ends about 1330 hrs.

TDA Daily Avg # of GULLs by Week, April to July 2021, 2022, 2023 and 2024 Compared to Previous 8 years Daily Mean.



WEEK OF YEAR APRIL TO JULY



Secchi:		USGS			
5.0	Sun	53.2			
5.0	Mon	53.2			
5.0	Tue	53.1			
5.0	Wed	53.1			
5.0	Thurs	53.5			
4.0	Fri	53.8			
4.0	Sat	53.8			
4.7	AVG	53.4			

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
4/28	1.3	10.8	1.5	4.6	11.4	11.3	10.6	1.5	10.2	10.3	-2.9	1.3	10.8	10.7
	1.3	10.7	1.5	4.6	11.3	11.1	10.7	1.5	10.2	10.4	-2.8	1.3	10.8	10.7
4/29														
	1.4	10.7	1.3	5.7	11.8	11.7	11.8	1.4	8.8	9.0	-1.9	1.5	8.8	8.5
	1.3	10.3	1.4	4.2	11.7	11.5	10.2	1.5	9.8	9.9	-3.3	1.3	10.3	10.2
4/30	1.4	10.4	1.6	4.3	11.2	11.4	10.3	1.3	10.5	10.6	-2.8	1.3	10.7	10.7
	1.8	9.8	1.5	3.4	11.2	11.5	9.5	1.4	10.1	10.3	-3.8	1.3	10.4	10.2
5/1	1.4	10.5	1.6	4.6	11.4	11.6	10.6	1.3	10.6	10.7	-2.8	1.3	10.6	10.7
	1.2	10.4	1.5	3.5	11.2	11.5	9.6	1.4	9.9	10.1	-3.8	1.3	10.3	10.2
5/2														
	1.3	10.5	1.5	4.6	11.3	10.5	10.6	1.3	10.4	10.5	-2.8	1.3	12.5	12.5
	1.3	10.7	1.5	3.6	11.3	11.3	9.6	1.5	9.8	10.0	-3.7	1.3	10.3	10.0
5/3														
	1.3	10.6	1.5	4.2	11.3	12.6	10.2	1.4	10.2	10.3	-3.2	1.2	10.6	10.4
	1.4	10.5	1.5	4.1	11.2	11.4	10.1	1.5	10.1	10.2	-3.3	1.3	10.4	10.1
5/4	1.4	10.5	1.7	4.2	11.3	12.6	10.2	1.5	10.0	10.2	-3.2	1.2	10.6	10.3
	1.3	10.5	1.6	4.7	11.1	11.1	9.7	1.6	9.9	10.0	-3.7	1.4	10.1	9.3
AVG:	1.4	10.5	1.5	4.3	11.3	11.5	10.3	1.4	10.0	10.2	-3.1	1.3	10.5	10.3

Fishways inspected twice daily