The Dalles Dam Fishway Status Report

7/30/23

Inspection Period 07/23-07/29, 2023

THE DALLES DAM



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

The Dellac Daw	Inspections	Criteria	Total Number of Ins	pections:		perature: 72.1	°F			
The Dalles Dam	000	Limit	Comments:	flows stabiliz	e and increase overnight.	. Weekly Ave. Secchi:				
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	9.8						
Entrance Differential	0		Average for the week							
N2		Closed		•						
PUD Intake differential	0	≤ 0.5′								
			EAST FIS	SHWAY	7					
Exit differential	0	≤ 0.5'	Not measured per FP	P						
Removable weirs 154-157	0		Weir 157 in water ∼1"							
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	11.1						
East entrance differential	0	1.0' - 2.0'	Weekly average	1.6						
Entrance weir E1	0	No criteria	Weekly average	7.3						
Entrance weir E2	0	depth (≥ 8')	Weekly average	11.2						
Entrance weir E3	0	depth (≥ 8')	Weekly average	11.2						
Collection channel velocity	0	1.5 - 4 fps	1.26 east entrance, 2	.36 fps west	end 7/24/23					
Transportation channel velocity	0	1.5 - 4 fps	4.11 fps 7/14/23	•						
North channel velocity	0	1.5 - 4 fps	2.77 fps 7/15/23							
South entrance	0	1.5 - 4 fps	4.76 fps 7/24/23							
West entrance differential	0	1.0' - 2.0'	Weekly average	1.6						
Entrance weir W1	0	depth (≥ 8')	Weekly average	9.7						
Entrance weir W2	0	depth (≥ 8')	Weekly average	9.8						
Entrance weir W3	0	No criteria	Weekly average	-2.1						
South entrance differential	0	1.0' - 2.0'	Weekly average	1.4						
Entrance weir S1	0	depth (≥ 8')	Weekly average	10.5						
Entrance weir S2	0	depth (≥ 8')	Weekly average	9.4						
			JUVENILE	BYPAS	S					
Sluicegate operation	0	Units 1. 8. 18	1-8-18 gates open.							
Turbine trashrack drawdown	0		kly 7/23/2023 1,8,18 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 Differential check only 1,8, 18 and FU in criteria								

Current Outages

MU13 OOS 07/10/2023 0630 - 08/10/2023 1700, 6 YEAR OVERHAUL

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

MU12 OOS 04/12/2021 0001 - 9/22/2023 ANNUAL

MU16 OOS 05/22/2023 0630 - 07/20/2023 1700, 6 YR O/H

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

Maintenance

Contractor to be used for north ladder vegetation removal

Planning spill gates 9 and 10 cable and gearbox swap. Resealing bulkheads.

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

Plan in place for fish unit intake trashrack rake in preparation for potential debris issues. Monitoring fish unit differential.

Tori line oos-bird activity at entrances light, intend to increase implementation

Calibrations on all entrances found within criteria.

Predators

USDA hazing ended 7/31-pelicans appear to remain dominating presence

More juvenile gulls present and counted as foraging

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

Falconry abatement finished for year. Finished RC boat trial July 21.

Planning construction of custom tori lines for other ladder entrance locations.

East end of Lewis island scanned for PIT tags. Few new ones found

Research/Construction/Contractors

Northern Pikeminnow Management Program (NPM) >=230mm 151 for the week, 2128 YTD

USGS temperature link- °F

4 Peaks conduction fish counts, night video commenced

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

ODFW conducting monthly fishway inspections.

PTAGIS fishladder data collection at count stations continues

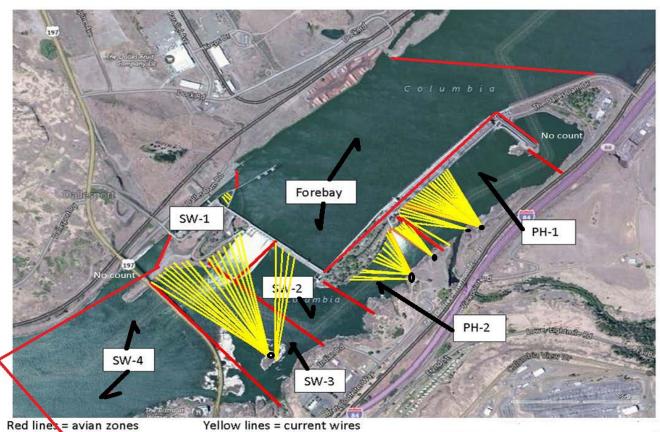
zebra mussel sample taken 7/14.

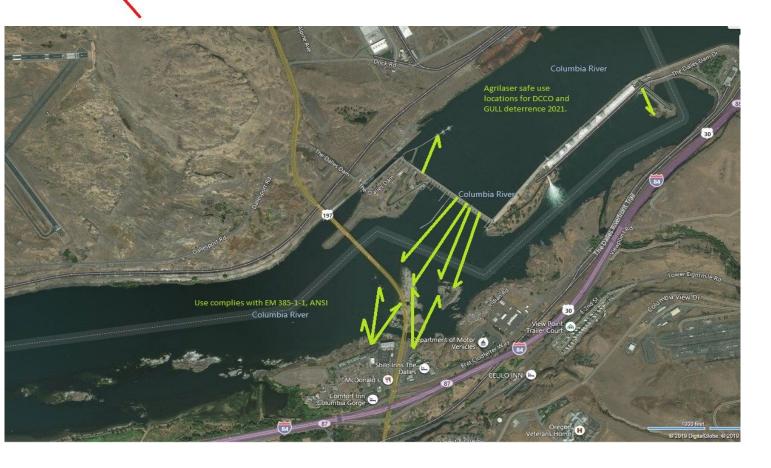
Operations

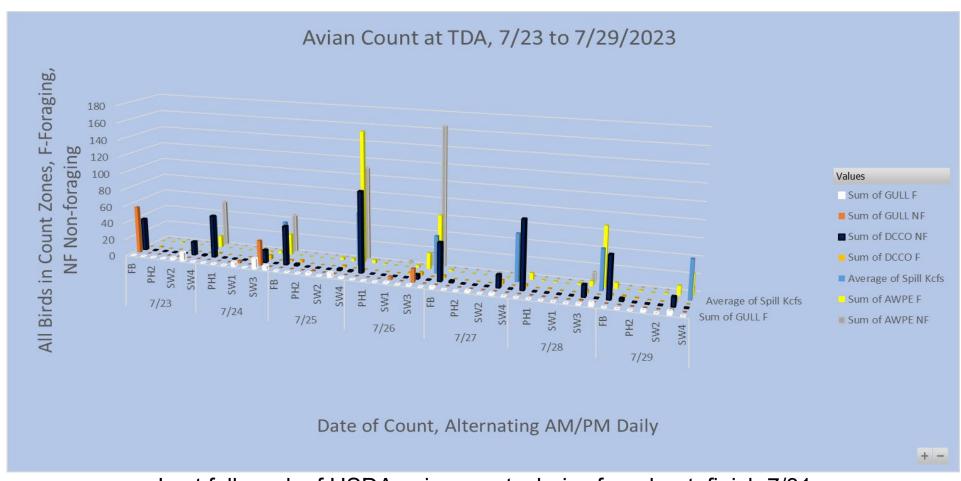
Sluice gates 1-1, 1-2, 1-3, 8-1, 8-3, 18-2 in accordance with fish passage criteria

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

Bird Count Zones, Avian Lines and Laser Deterrent Sites

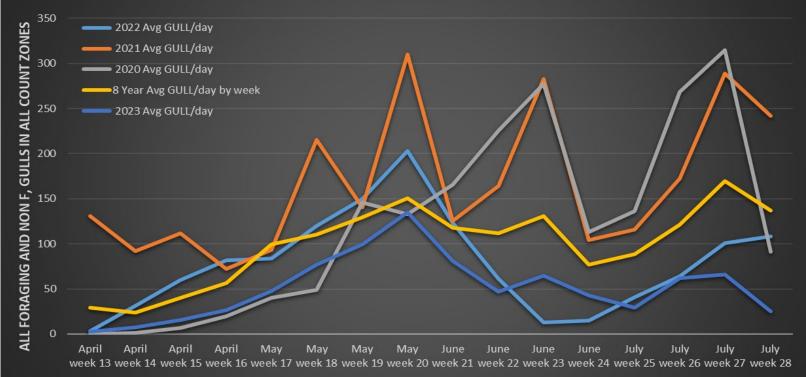




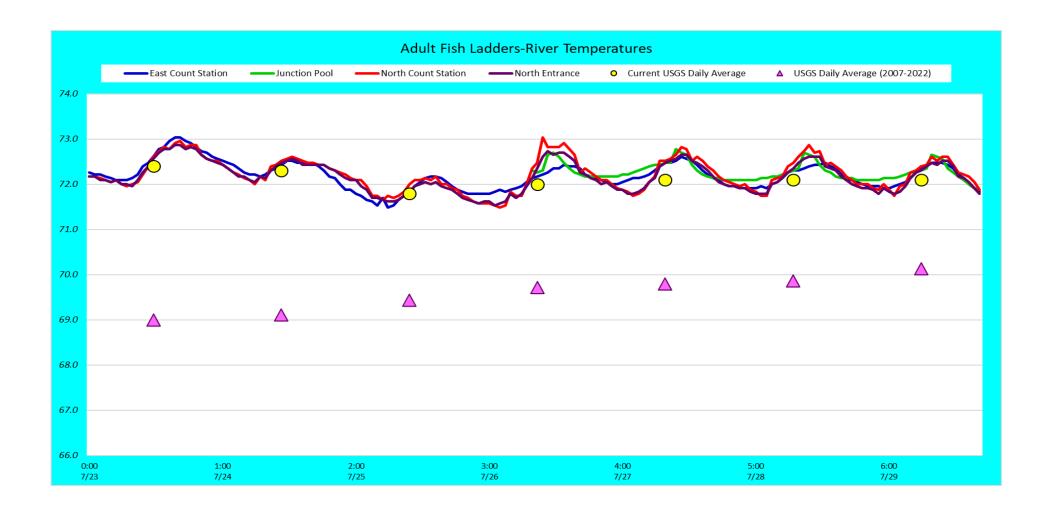


Last full week of USDA avian pyrotechnics from boat, finish 7/31





WEEK OF YEAR APRIL TO JULY



Secchi:		USGS F°			
5.0	Sun	72.4			
5.0	Mon	72.3			
5.0	Tue	71.8			
5.0	Wed	72.0			
5.0	Thurs	72.1			
5.0	Fri	72.1			
5.0	Sat	72.1			
5.0	AVG	72.1			

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
7/23	1.3	9.8	1.6	8.1	11.1	11.1	11.0	1.5	9.6	9.9	-2.2	1.5	10.5	9.1
	1.3	9.8	1.7	6.8	10.9	11.4	10.8	1.5	9.5	9.8	-2.3	1.4	10.5	9.1
7/24	1.3	9.8	1.7	6.6	11.0	11.5	10.6	1.6	9.3	9.6	-2.6	1.4	10.6	9.2
	1.3	10.0	1.4	6.5	6.5	12.1	10.5	1.7	9.1	9.4	-2.8	1.3	10.9	9.5
7/25	1.3	9.8	1.5	7.0	11.9	11.9	10.7	1.7	9.3	9.6	-2.5	1.5	10.5	9.1
	1.2	9.7	1.3	7.8	13.5	13.5	11.8	1.3	10.5	10.8	-1.4	1.5	10.7	9.3
7/26														
	1.3	9.9	1.7	7.4	11.4	9.3	11.4	1.7	9.7	9.7	-2.0	1.5	10.2	8.9
	1.4	9.9	1.4	7.8	12.2	12.2	11.8	1.4	10.2	10.2	-1.3	1.4	10.9	9.5
7/27														
	1.3	9.8	1.6	8.1	11.1	11.1	11.0	1.5	9.6	9.9	-2.2	1.5	10.5	9.1
	1.3	9.1	1.2	7.5	11.7	11.7	11.5	1.6	9.7	9.7	-1.9	1.5	10.9	9.1
7/28														
	1.4	9.8	1.6	7.5	11.3	11.3	11.5	1.5	10.1	10.2	-1.6	1.4	10.1	9.9
	1.3	9.8	1.7	7.0	11.3	11.3	11.0	1.7	9.5	9.5	-2.2	1.4	10.2	9.8
7/29	1.3	9.9	1.6	6.9	11.3	11.4	11.0	1.6	9.8	9.9	-2.2	1.3	10.1	9.6
	1.3	9.9	1.7	6.8	11.2	11.3	10.9	1.6	9.7	9.7	-2.3	1.4	10.1	9.7
AVG:	1.3	9.8	1.6	7.3	11.2	11.5	11.1	1.6	9.7	9.8	-2.1	1.4	10.5	9.4

Fishways inspected twice daily