# The Dalles Dam Fishway Status Report

10/16/22

Inspection Period 10/9-10/15, 2022

### THE DALLES DAM



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

	Inspections	Criteria	Total Number of Insp	octions:	14	Temperature:	65.8	°F		
The Dalles Dam	OOC	Limit	Comments:	W155 failure	RCC restricted FB		Ave. Secchi:	5.1		
	000	Lillin				VVEEKIY	Ave. Jecuii.	J. I		
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		Average for the week	9.6						
Entrance Differential	0	1.0' - 2.0'	Average for the week	1.3						
N2	0	Closed								
PUD Intake differential	8	≤ 0.5′								
EAST FISHWAY										
Exit differential	0	≤ 0.5'	Significant floating ma	tts of weed	s at east exit. Not eff	fecting flows or fish p	passage.			
Removable weirs 154-157	0	Per forebay	Note; 155 weir hoist fa	ailed. Foreb	ay restriction minimu	m 157' applied.	•			
Weir 158-159 differential	0	1.1' ± 0.1'	·		-	• •				
Count station differential	0	≤ 0.3'	Less weed plugging a	t pickets.						
153 Weir crest depth	0	1.3' ± 0.1'	. 00							
Junction pool weir JP6	0	> 7.0'	Weekly average	9.9						
East entrance differential	0	1.0' - 2.0'	Weekly average	1.5						
Entrance weir E1	0	No criteria	Weekly average	9.0						
Entrance weir E2	0	depth (≥ 8')	Weekly average	10.6						
Entrance weir E3	0	depth (≥ 8')	Weekly average	10.6						
Collection channel velocity	0	1.5 - 4 fps	3.49 fps 10/15							
Transportation channel velocity	0	1.5 - 4 fps	1.7 fps 10/15							
North channel velocity	0	1.5 - 4 fps	3.32 fps 10/15							
South channel velocity	0	1.5 - 4 fps	4.47 fps 10/15							
West entrance differential	0	1.0' - 2.0'	Weekly average	1.4						
Entrance weir W1	0	depth (≥ 8')	Weekly average	9.6						
Entrance weir W2	0	depth (≥ 8')	Weekly average	9.7						
Entrance weir W3	0	No criteria	Weekly average	-3.3						
South entrance differential	0	1.0' - 2.0'	Weekly average	1.4						
Entrance weir S1	0	depth (≥ 8')	Weekly average	9.4						
Entrance weir S2	0	depth (≥ 8')	Weekly average	9.3						
			JUVENILE	BYPAS	S					
Sluicegate operation	0	Units 1, 8, 18	MU 18 OOS, sluice ga	ate 17-2 in c	operation					
Turbine trashrack drawdown	0		Monitoring FU drawdown due to weed buildup on intakes. Stable at .5 to .6' on FU2							
Spill volume/pattern	0	1 to 22	NO SPILL.		,					
Turbine Unit Priority	0	per FPP								
Gatewells	0	Weekly	Nothing to report							

# **Current Outages**

MU19 & MU20 FOOS 10/07/2018 1205 – 10/27/2022 1700 T10 ACETYLENE

MU12 OOS 0001 4/12/2021 – 1700 10/27/2022 for Annual & Cooler Upgrades

MU18 OOS 08/29/2022 0630-1/26/2023 1700, COOLER UPGRADES

SS01 OOS 10/03/2022 0630 - 10/27/2022 1700, 2 YEAR

MU20 OOS 10/03/2022 0630 - 12/29/2022 1700, TOP PLATE OIL SUMP

#### Maintenance

## PUD trash rake repair completed to resume raking and correct differential.

EFL exit weir 155 hoist failed in down position. Weir pull and repair December. Forebay restriction 157 remainder of passage season.

Permanent oil boom reinstall planned for December. Plan to extend to cover AWS intake.

Calibrations all accurate for fishway entrances. New automation in calibration. All maintaining criteria.

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

Fish unit rehab Phase 1A awaiting funding.

AWS intake trashrack debris management - PDT reviewing alternatives.

Monitoring fish unit intake drawdown for potential trashrack plugging.

Planning repair of AWS trashrack lift beam for easier use if needed.

Planning for use of antiquated fish unit intake trashrack rake in anticipation for future debris plugging.

#### **Predators**

Planning removal of bass/walleye/catfish from all dewaterings for gut sample analysis. Aquiring permits.

Resident cormorants foraging around project. Up to 3 at a time at the east fishladder exit.

Northern Pikeminnow Management Program Columbia River Dam Angling & Site-Specific Fishery with 650 removed YTD

#### Research/Construction/Contractors

USGS river temperatures link

4 peaks counting 4/1-10/31. Video counting will occur through December this year.

Fish Accords Lamprey Passage plan ongoing at 90% due 09/01 DDR junction pool LPS. Investigating mods for entrance and exit weirs.

PTAGIS fishladder data collection at count stations continues

Lamprey translocation project reporting 1065 captures YTD- Traps pulled 9/7 end of season

Zebra mussel sampling completed 8/15. No mussels detected on substrate in ladders.

# **Operations**

Ice Trash sluiceway endgate open. Sluicegates 1,8,17 open.

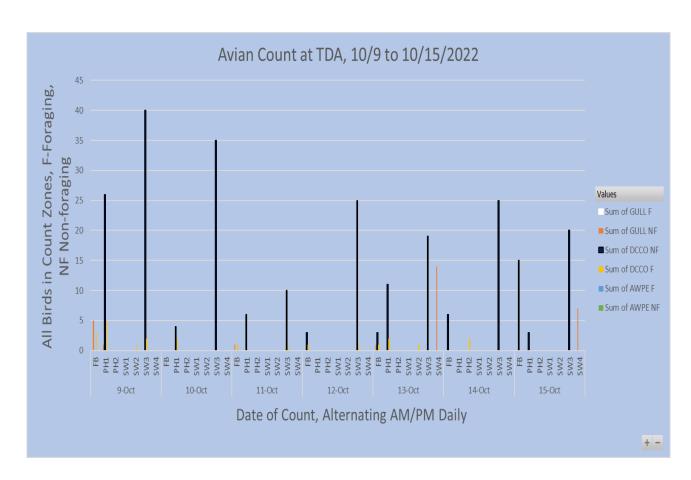
East and North fishways in full service

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

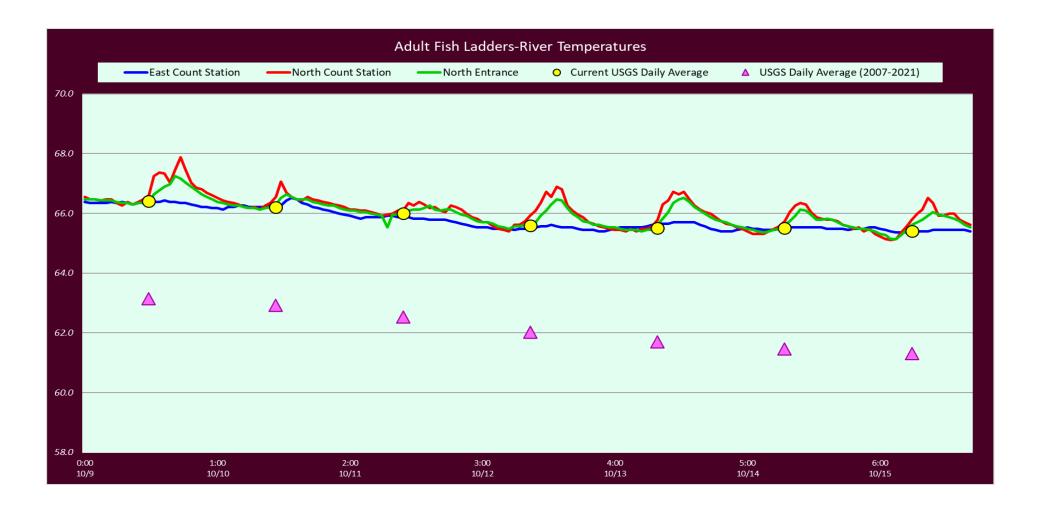
# Bird Count Zones, Avian Lines and Laser Deterrent Sites







Declining cormorants in PH1 possibly due to Gadfly, motion sensor noise deterrent at East PH shoreline.



Secchi:		USGS°F			
5.0	Sun	66.4			
5.0	Mon	66.2			
5.0	Tue	66.0			
5.0	Wed	65.6			
5.0	Thurs	65.5			
5.0	Fri	65.5			
6.0	Sat	65.4			
5.1	AVG	65.8			

# 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
10/9	1.3	9.5	1.7	8.3	10.2	10.4	9.3	1.6	9.1	9.2	-3.8	1.5	9.2	8.9
	1.2	9.6	1.6	8.6	10.5	10.7	9.6	1.5	9.3	9.4	-3.8	1.5	9.4	9.0
10/10														
	1.2	9.7	1.5	8.9	10.8	11.0	9.9	1.3	9.8	10.0	-3.3	1.4	9.6	9.2
	1.3	9.5	1.5	9.0	10.9	11.1	10.0	1.3	9.9	10.1	-3.2	1.4	9.7	9.4
10/11														
	1.3	9.6	1.5	8.9	10.8	11.1	9.9	1.4	9.7	9.9	-3.4	1.4	9.4	9.2
	1.3	10.5	1.7	8.4	10.3	10.5	9.4	1.4	9.5	9.7	-3.6	1.5	9.4	9.1
10/12														
	1.3	9.6	1.5	9.2	10.9	11.1	10.2	1.4	9.7	9.9	-2.9	1.4	9.4	9.5
	1.3	9.7	1.4	9.4	11.1	11.3	10.4	1.4	9.5	9.7	-3.6	1.5	9.4	9.1
10/13														
	1.3	9.6	1.5	9.1	10.8	11.0	10.0	1.3	9.7	9.8	-2.9	1.4	9.4	9.3
	1.2	9.6	1.6	8.9	10.6	10.9	9.9	1.4	9.5	9.6	-3.2	1.5	9.4	10.2
10/14														
	1.5	9.5	1.5	9.3	10.8	11.0	10.3	1.4	9.8	9.9	-2.9	1.4	9.3	9.3
	1.4	9.6	1.4	9.5	11.0	11.2	10.5	1.4	9.9	10.0	-2.8	1.4	9.6	9.4
10/15	1.5	9.5	1.7	9.1	10.3	10.6	10.1	1.6	9.5	9.7	-3.1	1.5	9.1	9.1
	1.5	9.5	1.6	8.9	10.3	10.4	9.9	1.6	9.5	9.6	-3.2	1.5	9.1	9.2
AVG:	1.3	9.6	1.5	9.0	10.6	10.9	9.9	1.4	9.6	9.7	-3.3	1.4	9.4	9.3
Fishways are inspected twice daily.											found out	of criteria		



Gadfly noisemaker and "long legs" bird deterrents able to reduce cormorants on shoreline. Had to be relocated

