# The Dalles Dam Fishway Status Report

4/3/22

Inspection Period 3/22-4/2/2022

# THE DALLES DAM



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

						1=	"DEEL	٥
The Dalles Dam	Inspections	Criteria Limit	Total Number of Inspondents:		13	Temperature:		°F
	000	Limit		•	ling bypass RTS	wee	ekly Ave. Secchi:	#REF!
			NORTH FI	SHWA	Υ			
Exit differential	0	≤ 0.5'						
Count station differential	0	≤ 0.3'						
Weir crest depth	0	1.0' ± 0.1'						
Entrance weir N1	2	depth (≥ 8')		1.2				
Entrance Differential	0	1.0' - 2.0'		9.7				
N2	0	Closed						
PUD Intake differential	0	≤ 0.5'						
			<b>EAST FIS</b>	HWAY	/			
Exit differential	0	≤ 0.5'						
Removable weirs 154-157	0	Per forebay						
Weir 158-159 differential	7	1.1' ± 0.1'	Weir 159 .5' OOCalib	ration and th	nus OOCriteria. TDE	fixed 3/30.		
Count station differential	0	≤ 0.3'						
153 Weir crest depth	0	1.0' ± 0.1'						
Junction pool weir JP6	0	> 7.0'	Weekly average	12.0				
East entrance differential	0	1.0' - 2.0'	Weekly average	1.5				
Entrance weir E1	0	No criteria	Weekly average	3.9				
Entrance weir E2	0	depth (≥ 8')	Weekly average	11.7				•
Entrance weir E3	0	depth (≥ 8')	Weekly average	12.0				
Collection channel velocity	0	1.5 - 4 fps	2.62 fps 3/25					
Transportation channel velocity	0	1.5 - 4 fps	3.90fps 4/2					
North channel velocity	0	1.5 - 4 fps	3.15 fps 4/2					
South channel velocity	0	1.5 - 4 fps	3.94 fps 4/2					
West entrance differential	0	1.0' - 2.0'	Weekly average	1.5				
Entrance weir W1	0	depth (≥ 8')	Weekly average	9.6				
Entrance weir W2	0	depth (≥ 8')	Weekly average	10.0				
Entrance weir W3	0	No criteria	Weekly average	-0.8				
South entrance differential	0	1.0' - 2.0'	Weekly average	1.5				
Entrance weir S1	0	depth (≥ 8')	Weekly average	9.0				
Entrance weir S2	0	depth (≥ 8')	Weekly average	9.0				
			JUVENILE	<b>BYPAS</b>	S			
Sluicegate operation	0	Units 1, 18	in criteriea					
Turbine trashrack drawdown	0	<1.5', biwkly	3/13/2022 all in criteri	а				
Spill volume/pattern	0	1 to 8	Spill closed					
Turbine Unit Priority	0	per FPP						
Gatewells	0	Weekly	Juv. chinook in MU 18	8-2, fish obs	erved 3/29/2022			

#### OTHER ISSUES:

#### **Current Unit Outages**

MU1-MU4 FOOS (Line 1) 1650 4/5/2022 Due to BPA PT damage (Big Eddy), RTS unknown

- T10 (MU19 & 20) FOOS through 10/27/2022 due to acetylene levels
- MU12 OOS 0001 4/12/2021 1700 10/27/2022 for Annual & Cooler Upgrades
- MU19 OOS 0630 6/27/2021 1700 10/27/2022 for Top Plate Cover Upgrade and blade linkage inspection

MU 17 OOS 3/28/2022 0630 – 7/15/2022 1700 for 6 yr. overhaul and top plate

-MU 18 OOS 3/28/2022 0630 – 4/7/2022 1700 for Annual

#### **Maintenance**

Permanent oil boom removed from east exit for repairs. Fabricating attachments. Determining install timing.

Fishway automation replacement entrances and exits in operation. Work to finish resumes in June, pending funding.

Calibrations on east fishway entrances still need slight adjustments. All in criteria. South entrance experiencing low flows criteria problems.

Spillway assessment (MRER); Spillgates 1- 9 rehab date estimate 2034. Includes replacement of spillbay 9 trunnion pin repair. Spillway crane top priority Calibration of weir 159 at east ladder exit is showing .5' high on PLC. No OOC at weir 153 below count station. TDE is working on fix to 159.

#### **Predators**

Resident cormorants have returned to nest on BPA towers.

California gulls not seen on project this week-see graph. Gulls feeding at the mouth of the Klickitat River.

Planning removal of bass/walleye/catfish from all dewaterings for gut sample analysis. Fish Passage Plan 2022 approved.

Yakima biologists using all means short of lethal to deter gull breeding at Miller Rocks 3/30/2022.

### Research/Construction/Contractors

March°F April°F

AWS intake trashrack debris issue - No funding FY22.

Fish Accords Lamprey Passage plan ongoing at 60% DDR junction pool LPS

PITAGS fishladder data collection at in service count station continues.

Fish unit rehab - Phase 1A on hold. Date to be determined. Planning operation with AWS backup water supply during construction.

PUD new juvenile sampling facility near complete.

4 peaks visual counting started April 1

USDA avian hazing starts Apr15. Prework logisitics in process.

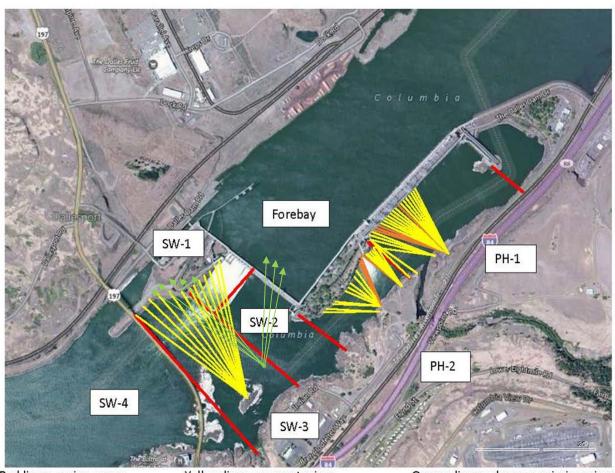
## **Fishway Operations**

East and North fishways in full service

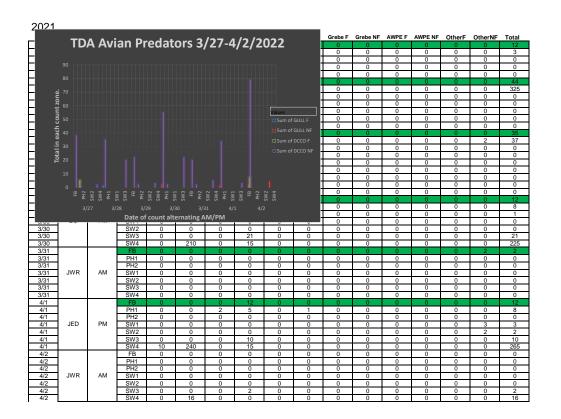
Ice Trash sluiceway endgate Open. 6 intakes opened for fish egress according to FPP. Some gate changes due to recent unit outages.

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

# New Avian Lines and laser deterrent zones

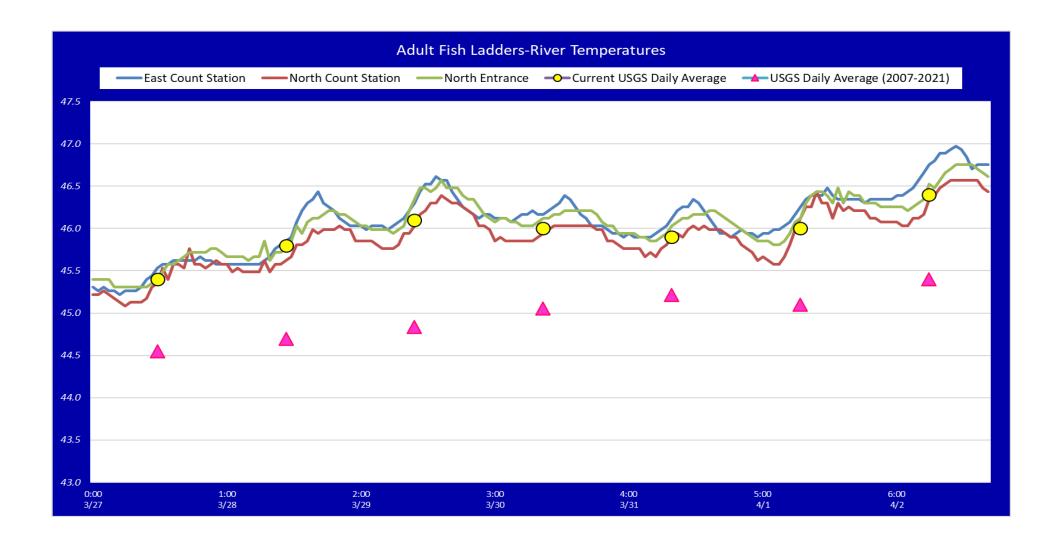






Row Labels	Sum of GULL F	Sum of GULL NF	Sum of DCCO F	Sum of DCCO NF
3/27	0	0	5	41
FB	0	0	0	38
PH1	0	0	5	1
PH2	0	0	0	0
SW1	0	0	0	0
SW2	0	0	0	0
SW3	0	0	0	2
SW4 3/28	0 1	0	0	0
3/28 FB	1	0	0	55 35
PH1	0	0	0	0
PH2	0	0	0	0
SW1	0	0	0	0
SW2	0	ő	ő	0
SW3	0	0	ō	20
SW4	0	0	0	0
3/29	0	0	0	27
FB	0	0	0	22
PH1	0	0	0	2
PH2	0	0	0	0
SW1	0	0	0	0
SW2	0	0	0	0
SW3	0	0	0	3
SW4	0	0	0	0
3/30	0	2	0	79
FB	0	2	0	55
PH1 PH2	0	0	0	2
SW1	0	0	0	0
SW2	0	0	0	0
SW3	0	0	0	22
SW4	0	0	0	0
3/31	ő	ő	ŏ	27
FB	0	0	0	20
PH1	0	0	0	2
PH2	0	0	0	0
SW1	0	0	0	0
SW2	0	0	0	0
SW3	0	0	0	5
SW4	0	0	0	0
4/1	0	1	0	37
FB	0	1	0	34
PH1	0	0	0	0
PH2	0	0	0	0
SW1	0	0	0	0
SW2	0	0	0	0
SW3	0	0	0	3
SW4	0	0	0	0
4/2 FB	0	6 2	7	<b>79</b> 79
PH1	0	2	0	79
PH1 PH2	0	0	0	0
SW1	0	0	0	0
SW1	0	0	0	0
SW3	0	4	0	0
SW4	0	0	0	0
Grand Total	1	9	12	345
	•	,	12	040

Row Labels	Sum of GULL F	Sum of GULL NF	Sum of DCCO F	Sum of DCCO NF
27-Mar	40	290	9	45
28-Mar	0	35	0	35
29-Mar	0	0	0	0
30-Mar	0	210	1	56
31-Mar	0	0	0	0
1-Apr	10	240	2	42
2-Apr	0	16	0	2
Grand Total	50	791	12	180



	Secchi:		USGS°F
3/27	5.0	Sun	45.4
3/28	5.0	Mon	45.8
3/29	5.0	Tue	46.1
3/30	5.0	Wed	46.0
3/31	5.0	Thurs	45.9
4/1	5.0	Fri	46.0
4/2	5.0	Sat	46.4
	5.0	median	46.0

The Dalles Dam Daily Readings and Averages for

Temperatures, Secchi, Entrances, and Spill

out of criteria

	North	Ladder		East Ladder										
Date:	140/11/ Laudei		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
3/27	1.3	9.9	1.4	3.5	12.1	12.2	11.5	1.6	9.5	9.8	-2.1	1.6	8.5	8.5
	1.3	10.0	1.5	3.7	12.1	12.3	11.7	1.6	9.5	9.5	-2.0	1.6	8.5	8.5
0.100														
3/28	1.3	9.7	1.5	3.8	11.8	12.0	11.8	1.4	10.1	10.4	-1.8	1.5	9.1	9.1
	0.6	9.8	1.5	3.7	11.7	11.7	11.7	1.6	9.6	9.9	-2.2	1.6	8.8	8.7
0.00														
3/29								facility testing						
	1.4	8.5	1.5	4.3	11.5	11.6	12.3	1.6	9.1	9.5	-0.2	1.6	9.1	9.1
3/30														
	1.4	9.8	1.5	5.2	11.2	11.3	13.2	1.4	9.9	10.3	-0.7	1.4	9.1	9.1
	1.4	9.5	1.6	3.8	11.6	11.8	11.8	1.6	9.1	9.5	-2.0	1.6	9.1	9.1
0/04	4.0		4.0		44.0	10.1	40.7		40.0	40.4		4.5		
3/31	1.3	9.9	1.3	4.7	11.9	12.1	12.7	1.4	10.0	10.4	-1.1	1.5	9.6	9.6
	1.3	9.8	1.5	3.6	11.7	12.1	11.6	1.5	9.3	9.7	9.7	1.5	8.9	9.0
4/1	4.2	0.0	4.2	2.0	11.0	42.2	44.0	1.1	40.4	40.5	4.0	4.6	0.0	0.0
4/1	1.3	9.8	1.3	3.9	11.9	12.3	11.9	1.4	10.1	10.5	-1.9	1.6	9.0	9.0
	1.2	9.9	1.4	3.6	12.0	12.4	11.6	1.5	9.9	10.3	-2.2	1.6	9.0	8.9
4/2	1.4	9.8	1.5	3.6	11.4	11.8	11.6	1.5	9.5	9.9	-2.0	1.5	9.2	9.2
7/2	0.9	10.3	1.4	4.0	11.4	12.3	12.0	1.4	9.8	10.2	-2.0	1.5	9.2	9.2
AVG:	1.2	9.7	1.4	4.0 3.9	11.8	12.3 12.0	12.0 12.0	1.4	9.8	10.2	-1.7	1.5	9.3	9.3
AVG:	1.2	9.1	1.5	3.9	п./	12.0	12.0	1.5	5.0	10.0	-0.0	1.5	9.0	9.0

