The Dalles Dam Fishway Status Report

04/19/20

Inspection Period: 4/12-4/18, 2020

THE DALLES DAM



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	Inchestions	Critorio	Total Number of Increations	04	Tomporoturo	49.8 °F
The Dalles Dam	Inspections OOC	Criteria Limit	Total Number of Inspections: Comments:	21	Temperature: Weekly Average Secchi:	49.8 °F 4.2
	000	Lillin			Weekly Average Secons.	4.2
			NORTH FISHWAY			
Exit differential	0	≤ 0.5′				
Count station differential	0	≤ 0.3'				
Weir crest depth	0	1.0' ± 0.1'				
Entrance differential	0		1.4			
Entrance weir N1	0	depth (≥ 8')	9.3			
Entrance weir N2		Closed				
PUD Intake differential	2	≤ 0.5'	twice exceeded 0.5'			
			EAST FISHWAY			
Exit differential	0	≤ 0.5'				
Removable weirs 154-157	2		weir 156 slow to respond to changing	forebay		
Weir 158-159 differential	0	1.1' ± 0.1'	g	· ,		
Count station differential	0	≤ 0.3'				
153 Weir crest depth	1	1.1' ± 0.1'	once exceeded 1.2'			
Junction pool weir JP6	0	≤ 7.0'	11.0			
East entrance differential	0	1.0' - 2.0'	1.5			
Entrance weir E1	0	No criteria	5.6			
Entrance weir E2	0	depth (≥ 8')	12.0			
Entrance weir E3	0	depth (≥ 8')	12.0			
Collection channel velocity	0	1.5 - 4 fps		MU21 - 1.56 fp:	s MU16	
Transportation channel velocity	0	1.5 - 4 fps		•		
North channel velocity	0	1.5 - 4 fps				
South channel velocity	0	1.5 - 4 fps	3.36 fps			
West entrance differential	0	1.0' - 2.0'	1.5			
Entrance weir W1	0	depth (≥ 8')	10.9			
Entrance weir W2	0	depth (≥ 8')	10.9			
Entrance weir W3	0	No criteria				
South entrance differential	0	1.0' - 2.0'	1.5			
Entrance weir S1	0	depth (≥ 8')	8.3			
Entrance weir S2	6	depth (≥ 8')	8.3 Calibration indic	ates gate .5' hig	her than PLC. Out of crit	eria mechanical failu
Sluicegate operation	0	Units 1, 7, 18/	MU8 OOS adjusted to nearest MU acc	ording to FPP.	MU18 OOS 4/13-4/16, 1	7-3 opened per FPP
Turbine trashrack drawdown	0		Completed 4/13/2020	<u> </u>	•	, ,
Spill volume/pattern	0		40% of combined river flow.			
Turbine Unit Priority	0	per FPP				
Gatewells	0	Weekly	No mortality observed.			

OTHER ISSUES:

Fishway Operations

North and east fish ladders in full operation Spill started 4/10 at 40% river flow Sluiceway open gates at 1-1,1-2,1-3,7-2, 7-3, 17-3.

Unit Outages

T10 (MU19 & 20) FOOS through 10/28/2021 due to acetylene levels MU1 and MU2 restricted to 160 MW combined through 5/28/2020 MU8 OOS 1/21/2020 - 5/7/2020 for Overhaul.

Maintenance

Calibration check 4/13/20; E1 (no criteria), S2 out of calibration, out of criteria. North Forebay index damaged/out of calibration, adjustments made to data report form. Five of 6 east fishway collection channel dewatering pumps removed for repair/rehab. Awaiting new pump motors. Assembly delayed due to COVID

East fishway automation replacement installation start delayed due to COVID staff plan. Planning underway to separate workstations for more onsite staffing. Spillway assessment (MRER); No funding for FY20. Spillgate 9 fish priority included on the list.

COVID creating major challenges accomplishing maintenance tasks. Maintenance leaders are working on plans to still accomplish as much as possible in safe manner.

Predators

Green laser use for piscivorous bird hazing testing on hold until all safety concerns and training requirements are addressed.

USDA hazing resumed 4/16/20

No sea lion observations this week.

Research/Construction/Contractors

Four Peaks fish counting started 4/1.

PSMFC juvenile sampling started 4/1. Refer to PSMFC weekly report for results.

USGS water quality started 3/12

AWS backup - Ready for operation if needed.

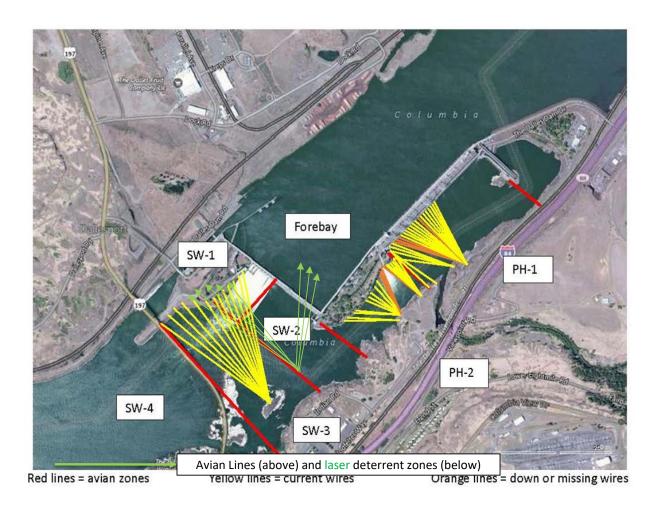
PITAGS north and east fishladder data collection at count stations continues.

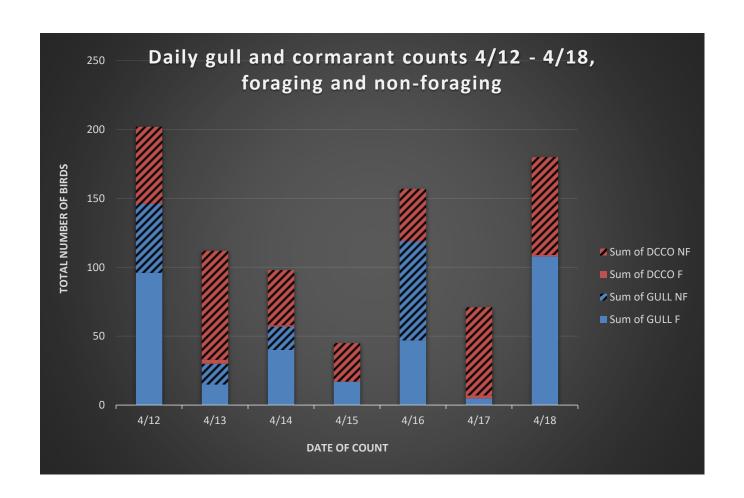
Dam angling resumes in May. Bass/Walleye release due to state classification of game species.

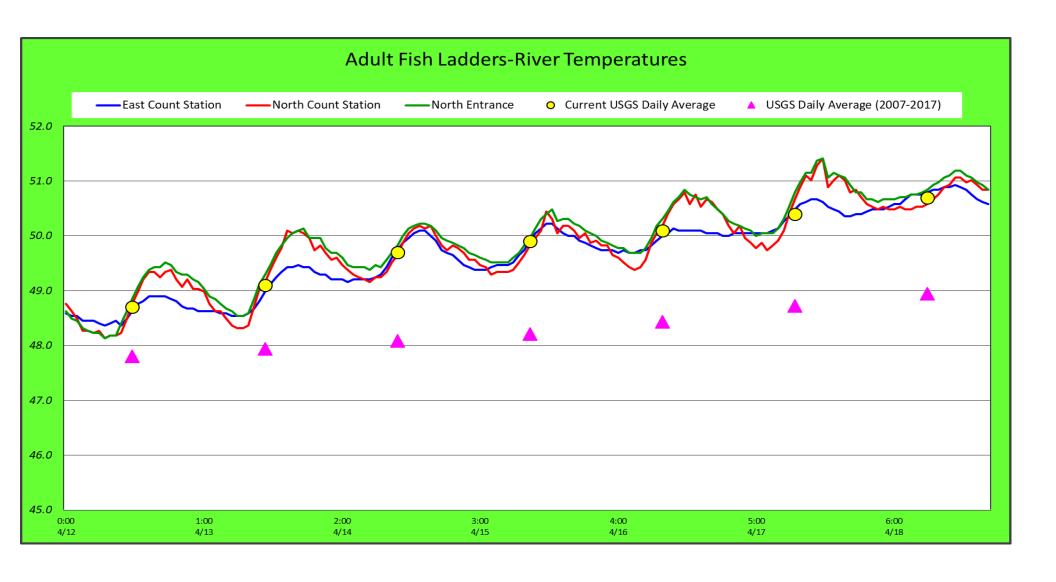
Fish unit breaker replace. - Completed. Line 1 and 3 available for use.

Fish unit rehab - Phase 1A. Planning operation scenario with AWS backup water supply during construction. No funding.

Approved by: Mike Colesar, Operation Project Manager, The Dalles Dam







USGS: Secchi: °F 4/12 4.0 Sun 48.7 4/13 4.0 Mon 49.1 4/14 4.0 Tue 49.7 Wed 49.9 4.0 4/15 4/16 4.5 Thurs 50.1 4/17 4.5 Fri 50.4 4/18 4.5 Sat 50.7 4.2 AVG 49.8

5.6

12.0

12.0

AVG:

1.4

9.3

1.5

April Temps

The Dalles Dam Daily Readings and Averages for Temperatures, Secchi, Entrances, and Spill

SCADA INSPECTION

out of criteria

8.3

8.3

East Ladder North Ladder Date: East Entrance West Entrance South Entrance N1 Depth Differential E2 Depth E3 Depth Differential Differential Differential E1 Depth JP 6 W1 W2 W3 **S1** S2 12.0 11.3 11.3 8.3 12.0 4/12 1.4 9.2 1.5 7.5 12.0 11.2 1.5 10.8 10.8 1.4 8.4 8.4 5.9 1.5 11.9 11.9 10.9 1.5 10.7 10.7 1.5 8.3 8.3 1.4 6.0 12.0 8.3 12.1 11.2 1.5 10.7 10.7 1.5 8.4 4/13 1.3 9.2 1.5 5.9 12.0 11.9 11.1 1.6 10.7 10.7 1.5 8.2 8.2 1.4 9.2 1.5 6.0 12.1 12.0 11.0 1.5 10.8 10.8 1.4 8.4 8.3 1.5 6.0 12.0 12.0 10.5 1.5 10.8 10.8 1.5 8.3 8.3 4/14 1.3 10.2 1.4 6.0 12.0 12.0 10.5 1.3 10.8 10.8 1.5 8.2 8.2 1.4 12.1 12.1 10.8 10.6 10.6 8.3 9.1 1.3 6.1 1.4 1.4 8.4 5.9 12.0 10.2 10.7 10.7 closed 8.3 1.3 12.0 1.3 1.4 8.3 4/15 1.4 9.2 1.4 5.1 12.0 12.0 10.4 1.5 10.6 10.6 1.4 8.3 8.3 1.3 9.3 1.5 5.0 12.1 12.1 10.5 1.5 10.8 10.8 1.4 8.4 8.4 1.5 5.1 12.0 12.0 11.1 1.6 10.7 10.7 1.5 8.3 8.3 4/16 1.5 5.0 12.0 11.0 10.7 10.7 1.5 8.3 1.3 9.4 12.0 1.5 8.3 1.4 9.3 1.4 5.0 12.0 12.0 11.0 1.4 10.8 10.8 1.5 8.3 8.3 5.1 12.1 11.7 8.2 1.5 11.9 1.8 10.6 10.6 1.6 4/17 9.3 1.5 5.0 12.0 12.0 11.8 8.3 1.4 1.6 11.1 11.1 1.5 8.3 1.4 9.3 1.6 5.0 12.0 12.0 11.8 1.5 11.2 11.2 1.6 8.3 8.2 4.9 12.0 11.9 11.3 11.3 1.6 1.4 11.3 8.2 4/18 1.3 1.6 5.0 11.9 12.0 11.4 1.5 11.2 8.4 8.4 9.3 11.2 1.5 1.3 9.3 1.6 5.5 12.1 12.1 11.2 1.4 11.2 11.2 1.5 8.2 8.2

11.0

Fishways are inspected once daily plus one SCADA inspection.

1.5

10.9

10.9