The Dalles Dam Fishway Status Report

12/20/2020

Inspection Period: 12/13 - 12/19

THE DALLES DAM



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

The Dalles Dam	Inspections OOC	Criteria Limit	Total Number of Inspections: 21 Comments: fishways functional	Temperature: Weekly Average Seco	44.9 °F hi: 5.0
			NORTH FISHWAY	· · · ·	
Exit differential	0	≤ 0.5'			
Count station differential	0	≤ 0.3'			
Veir crest depth	0	1.0' ± 0.1'			
Intrance differential	0	1.0' - 2.0'	1.3		
Intrance weir N1	0	depth (≥ 8')	9.1		
ntrance weir N2	0	Closed			
PUD Intake differential	0	≤ 0.5'	TDM unable to remove significant floating weeds bu	ildup. North FB index of	data unreliable.
			EAST FISHWAY		
xit differential		≤ 0.5'			
Removable weirs 154-157		Per forebay			
Veir 158-159 differential		1.1' ± 0.1'			
Count station differential		≤ 0.3'			
53 Weir crest depth		1.3' ± 0.1'			
unction pool weir JP6	Fishway	> 7.0'	Average for week = 0.0		
ast entrance differential	closed		Average for week = 0.0		
Intrance weir E1		No criteria	Average for week = No criteria		
intrance weir E2			Average for week = 0.0		
Intrance weir E3			Average for week = 0.0		
Collection channel velocity			2.94fps 11/26/2020 Range: Data unavailable		
ransportation channel velocity			2.51 fps, 11/26/2020		
lorth channel velocity	0		3.22 fps, 12/6/2020		
South channel velocity			4.24fps, 11/26/2020		
Vest entrance differential		1.0' - 2.0'	Average for week = 0.0		
Intrance weir W1		depth (≥ 8')	Average for week = 0.0		
intrance weir W2	Fishway	depth (≥ 8')	Average for week = 0.0		
intrance weir W3	closed	No criteria			
South entrance differential		1.0' - 2.0'	Average for week = 0.0		
ntrance weir S1		depth (≥ 8')	Average for week = 0.0		
ntrance weir S2		depth (≥ 8')	Average for week = 0.0		
			JUVENILE PASSAGE		
Sluicegate operation	0	Units 3, 18	MU8 OOS and MU1-2 OOS		
urbine trashrack drawdown	0	,	11/26/2020 checked, all in criteria.		
Spill volume/pattern	0	1 to 8	Spill closed 9/1/2020.		
Turbine Unit Priority	21	per FPP	All available MUs running; OOC due to forced outag	ies	
Gatewells	0	Weekly	11/26/2020 fish check, no fish mortality seen.		

OTHER ISSUES:

Current Unit Outages

- Line 1, MU1, & MU2 OOS for T1 replacement MU2 Overhaul and MU1 Annual through 2/28/2021
- T10 (MU19 & 20) FOOS through 10/28/2021 due to acetylene levels
- SSO1 OOS for Overhaul and DC Governor oil Pump Install 0630 11/2/2020 1700 1/14/2021
- FU1 OOS 0001 12/1/2020 1700 1/21/2021 for Overhaul & TA Vault Demo
- FU2 OOS 0001 12/1/2020 1700 1/21/2021 for Annual & TA Vault Demo

T6 OOS 0630 12/14/2020 - 1700 12/21/2020 for GSU Re-Work, Oil Leak Repairs

Maintenance

Repairing wind damaged debris guard for north fishladder exit.

PUD intake rake out of service due to power track damage. Exploring repair options. Attempting to rake with mobile crane.

Five of 6 east fishway collection channel dewatering pumps removed for repair/rehab. Work to resume FY21.

East and north fishway automation PLC panels installed. All sensors installed. Programming underway. Completion target end Jan.

Spillway assessment (MRER); Spillgate 9 trunnion pin included.

Calibration checks on North fishway entrance and exits 12/11/20, all within criteria.

Predators

Moderate/high gull numbers. Refer to avian graph tab for bird numbers.

Green laser use for piscivorous bird hazing testing continues. Effective on roosting birds during low light.

Invasive aquatic weeds significant at north exit.

Pikeminnow dam angling resumes next May. All invasive bass/walleye by-catch release to continue per state requirement.

Research/Construction/Contractors

District Dive office to ROV east fishway diffuser grating, AWS and east exit trashracks for condition 12/28-29

AWS intake trashrack - EDR funded for FY21 to investigate solution for debris plugging issue.

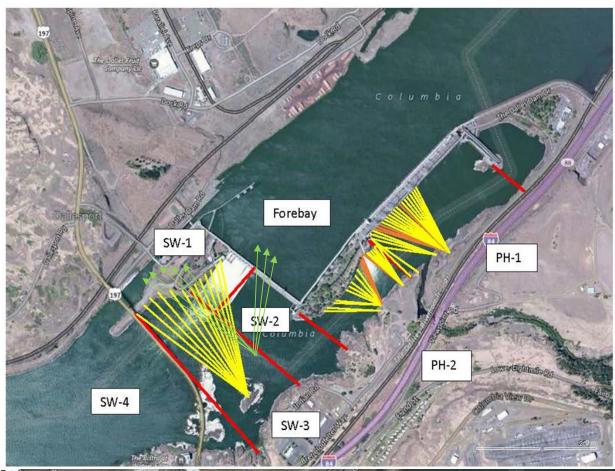
PITAGS north and east fishladder data collection at north count stations continues. East antenna annual maintenance this month during dewatering. Fish unit rehab - Phase 1A. Planning operation with AWS backup water supply during construction on hold.

Fishway Operations

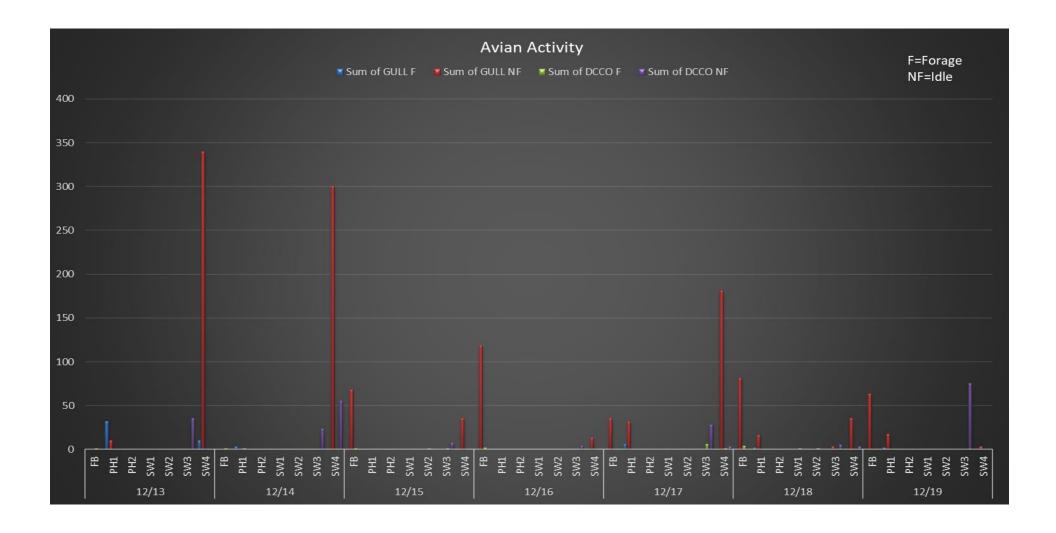
North fish ladder in full operation-East ladder dewatered 12/2

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

New Avian Lines and laser deterrent zones









USGS Dec

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

SCADA INSPECTION out of criteria

Date:	North	North Ladder		East Ladder										
	NOILIII			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
12/13	1.3	9.2												
12/14	1.2	0.2												
12/14	1.3	9.3												
12/15	1.3	9.1												
10/10							_							
12/16	1.4	9.0					Ea	st Ladder o	ewate	rea				
12/17	1.3	9.2												
,	2.0	3.1												
12/18	1.4	9.0												
12/19	1.3	9.2												
12/13	1.5	9.2	ł											
AVG:	1.3	9.1												

Fishways are inspected once daily plus one SCADA inspection.