The Dalles Dam Fishway Status Report

11/8/2020

Inspection Period: 11/1 - 11/7

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: Comments: fishways functional	Temperature: Weekly Average Secchi	54.8	°F 5.3
			NORTH FISHWAY			
Exit differential	0	≤ 0.5'				
Count station differential	0	≤ 0.3'				
Weir crest depth	0	1.0' ± 0.1'				
Entrance differential	0	1.0' - 2.0'	1.4			
Entrance weir N1	0	depth (≥ 8')	18.1			
Entrance weir N2	0	Closed				
PUD Intake differential	0	≤ 0.5′	Damage to north FB index makes data unr	eliable.		
			EAST FISHWAY			
Exit differential	0	≤ 0.5'				
Removable weirs 154-157	0	Per forebay				
Weir 158-159 differential	0	1.1' ± 0.1'				
Count station differential	0	≤ 0.3'				
153 Weir crest depth	0	1.3' ± 0.1'				
Junction pool weir JP6	0	> 7.0'	Average for week = 9.8			
East entrance differential	0	1.0' - 2.0'	Average for week = 1.4			
Entrance weir E1	0	No criteria	Average for week = No criteria			
Entrance weir E2	0	depth (≥ 8')	Average for week = 11.5			
Entrance weir E3	0	depth (≥ 8')	Average for week = 11.5			
Collection channel velocity	0	1.5 - 4 fps	2.87fps 11/1/2020 Range: 3.91 fps MU	1 to 2.77 fps MU-17		
Transportation channel velocity	0	1.5 - 4 fps	2.22 fps, 11/1/2020			
North channel velocity	0	1.5 - 4 fps	2.64 fps, 11/1/2020			
South channel velocity	0	1.5 - 4 fps	3.14 fps, 11/1/2020			
West entrance differential	0	1.0' - 2.0'	Average for week = 1.5			
Entrance weir W1	0	depth (≥ 8')	Average for week = 10.1			
Entrance weir W2	0	depth (≥ 8')	Average for week = 10.1			
Entrance weir W3	0	No criteria				
South entrance differential	0	1.0' - 2.0'	Average for week = 1.5			
Entrance weir S1	0	depth (≥ 8')	Average for week = 8.5			
Entrance weir S2	0	depth (≥ 8')	Average for week = 8.5			
			JUVENILE PASSAGE			
Sluicegate operation	0	Units 3, 7, 18	MU8 OOS and MU1-2 OOS			
Turbine trashrack drawdown	0		10/19/2020 checked, all in criteria.			
Spill volume/pattern	0	1 to 8	Spill closed 9/1/2020.			
Turbine Unit Priority	0	per FPP	All available MUs running; OOC due to fore	ced outages		
Gatewells	0		11/1/2020 fish check, no fish mortality see	n		

OTHER ISSUES:

Unit Outages

Line 1, MU1,2 OOS 10/26/2020 - 2/28/21 for T1 replacement; 1/28/2021

T10 (MU19 & 20) FOOS through 10/28/2021 due to acetylene levels

M8 OOS through 11/15/20 overhaul

MU21 OOS 8/3/2020 - 12/17/2020 for Annual & Headcover Upgrade

MU9 & MU10 OOS through 11/2/2020 for T5 C phase Cooling Repairs

MU11 & MU12 OOS through 11/2/2020 due to L4 Trip on T5 Energization

Maintenance

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

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

East fishway automation PLC panels installed. All sensor brackets installed. Programming underway. Completion target mid Jan.

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

Predators

Refer to avian graph tab for bird numbers.

Green laser use for piscivorous bird hazing testing continues. Promising abatement tool for roosting birds during low light.

Cormorants foraging forebay near east ladder exit and entrance. Several herons foraging east fishladder. Three hours observation, one dip, no catch.

Invasive aquatic weeds significant at count station pickets and north exit.

Pikeminnow dam angling concluded w/980 removed. All invasive bass/walleye by-catch release continues per states gamefish requirements.

Research/Construction/Contractors

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

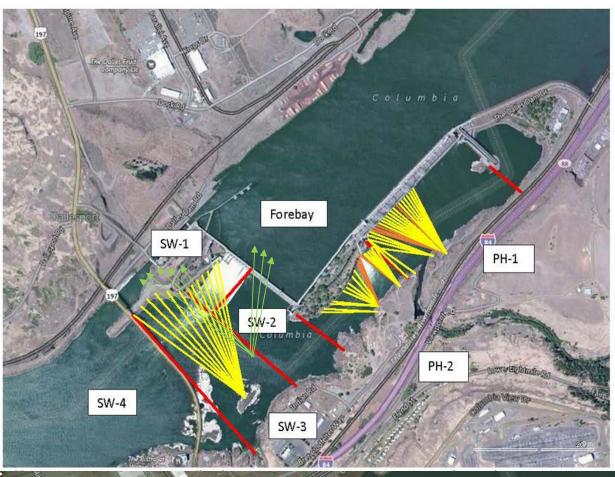
Fish unit rehab - Phase 1A. Planning operation with AWS backup water supply during construction. On hold.

Fishway Operations

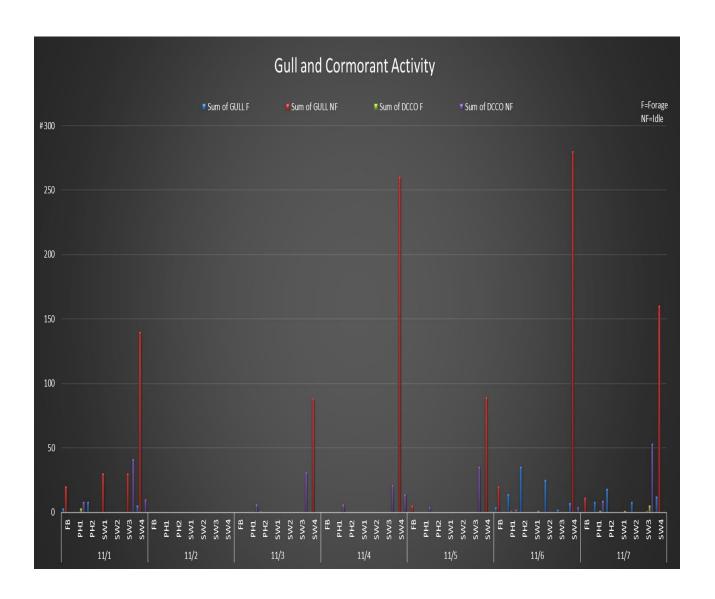
North and east fish ladders in full operation.

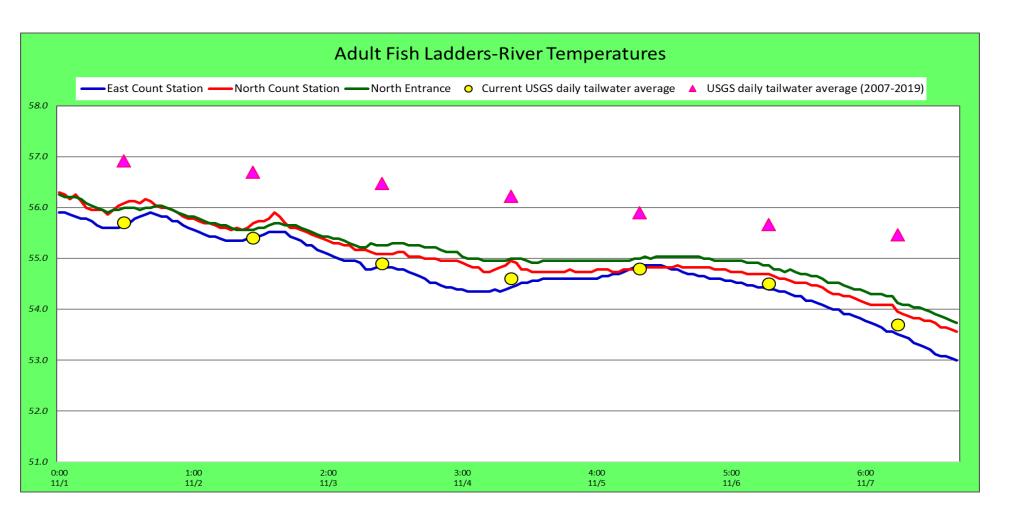
Approved by: Mike Colesar, Operation Project Manager, The Dalles Dam

New Avian Lines and laser deterrent zones









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	Secchi:		°F
11/1	6.0	Sun	55.7
11/2	6.0	Mon	55.4
11/3	5.0	Tue	54.9
11/4	5.0	Wed	54.6
11/5	5.0	Thurs	54.8
11/6	5.0	Fri	54.5
11/7	5.0	Sat	53.7
	5.3	AVG	54.8

USGS Nov

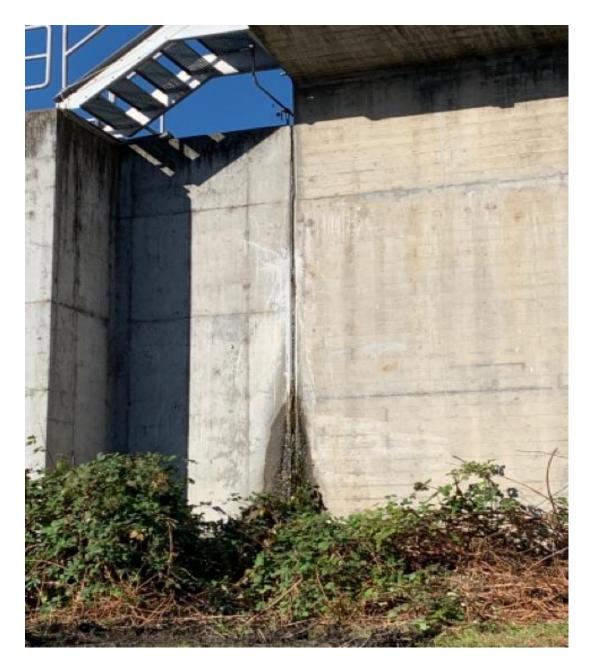
The Dalles Dam Daily Readings and Averages for

SCADA INSPECTION out of criteria

Temperatures, Secchi, Entrances, and Spill

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
11/1			1.7	5.0	11.5	11.6	10.5	1.7	10.1	10.1	10.1			
	1.5	8.7	1.5	6.0	11.4	11.5	10.4	1.6	10.3	10.3	10.3	1.6	8.6	8.6
	1.5	8.6	1.5	6.1	11.5	11.6	10.5	1.5	10.3	10.3	10.3	1.6	8.4	8.6
11/2			1.5	6.0	11.4	11.5	10.1	1.6	10.1	10.1	10.1			
	1.4	9.0	1.5	5.9	11.5	11.5	10.4	1.4	10.3	10.1	10.1	1.6	8.4	8.4
	1.4	8.8	1.5	5.9	11.5	11.5	9.9	1.5	10.1	10.2	10.2	1.5	8.5	8.5
			1.5	6.0	11.3	11.3	9.7	1.5	9.9	9.9	9.9			
11/3	1.4	8.7	1.5	6.1	11.4	11.4	9.8	1.2	10.2	10.2	10.2	1.3	8.3	8.3
	1.4	9.0	1.5	5.9	11.6	11.6	10.4	1.6	10.3	10.3	10.3	1.3	8.5	8.5
11/4			1.5	6.0	11.5	11.5	9.7	1.5	10.2	10.2	10.2	1.5	8.6	8.6
	1.4	8.9	1.5	6.1	11.6	11.6	9.8	1.5	10.2	10.2	10.2	1.4	8.5	8.5
	1.2	9.0	1.6	4.1	11.5	11.5	9.7	1.6	10.1	10.1	10.1	1.5	8.5	8.5
11/5			1.3	3.9	11.3	11.3	8.9	1.4	10.0	10.0	10.0	1.3	8.3	8.3
	1.3	73.5	1.5	4.0	11.5	11.5	9.4	1.4	10.1	10.1	10.1	1.4	8.3	8.3
	1.3	73.5	1.6	6.0	11.5	11.5	10.3	1.5	10.1	10.1	10.1	1.4	8.5	8.5
			1.4	6.0	11.6	11.6	9.3	1.5	9.9	9.9	9.9	1.4	8.5	8.5
11/6	1.4	8.8	1.4	6.1	11.5	11.5	9.4	1.5	10.1	10.1	10.1	1.6	8.6	8.6
	1.3	8.9	1.5	6.1	11.5	11.5	9.6	1.4	10.1	10.1	10.1	1.5	8.6	8.6
11/7			1.4	5.9	11.7	11.5	9.8	1.5	10.0	10.3	10.0	1.4	8.6	8.6
	1.3	8.9	1.4	6.1	11.6	11.5	9.6	1.4	10.0	10.0	10.0	1.4	8.6	8.4
	1.3	8.9	1.4	5.9	11.6	11.5	9.5	1.4	10.1	10.1	10.1	1.6	8.5	8.5
AVG:	1.4	18.1	1.4	6.1	11.5	11.5	9.8	1.5	10.1	10.1	10.1	1.5	8.5	8.5

Fishways are inspected once daily plus one SCADA inspection.



North ladder expansion joint leak. Repair this winter.