# The Dalles Dam Fishway Status Report

2/4/2018

Inspection Period: 01/28/2018-02/03/2018

## THE DALLES DAM



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

The Dalles Dam	Inspections		Total Number of I	nspections:	Temperature:	41.0	°F		
THE Dalles Dalli	Out of Criteria	Limit	Comments		Secchi: 5.0	feet	feet		
		NORTH	FISHWAY Out of s	service Jan 16 - Jan 3	0				
xit 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						
Intrance weir N1	0	depth (≥ 8')	9.1						
Intrance weir N2	0	Closed							
PUD Intake differential	0	≤ 0.5′							
		EAST	FISHWAY Out of s	service Dec1 - Feb28					
Exit differential	0	≤ 0.5′							
	0								
	0	1.0' ± 0.1'							
	0								
	0	1.0' ± 0.1'							
	0								
	0	1.0' - 2.0'							
	0								
	0								
	0								
	0	1.5 - 4 fps							
		1.5 - 4 fps							
	0	1.5 - 4 fps							
	0	1.5 - 4 fps							
	0	1.0' - 2.0'							
	0								
	0								
	0								
	0	1.0' - 2.0'							
	0								
	0								
			JUVENILE P	ASSAGE					
Sluicegate operation	0	Units 1, 8, 18							
Turbine trashrack drawdown	0	<1.5', wkly	range: 0.1-0.8'						
Spill volume/pattern	0			1 7	osed midnight Aug31				
Turbine Unit Priority	0	per FPP	MU 13-16 oos 13	RTS 12/20					
Turbine 1% Efficiency	0	per FPP							

#### **OTHER ISSUES:**

#### Birds and Sea lions:

No sea lion sightings this week. Eagles numbers dropping precipitously

Gull numbers <20 near dam. Gull seen in the hundreds near The Dalles Marina. ~80 Cormorant resting in SW3

#### Operations

Sluiceway closed.

East fishway out of service through Feb28

North fishway return to service Jan 16

### Current Outages;

T8 (MU15 & MU16) out for transformer failure. Transformer replacement 6/28/18.

MU17 and MU18 out for overhaul. Return 4/26/18.

Fish unit 1 and 2 out 12/1/17 for annual fishway outage. East fishladder dewatered 12/1/17.

#### Maintenance;

East exit weir electrical panel FCQ7 partially installed. Final design drawings near complete. Installation to continue in Feb.

West, south and north entrance weirs removed and lamprey weir caps install underway.

East exit oil boom installation by AWS contract reviewed. Estimate too high. Determining alternative plan.

Fish lock upper and lower bulkhead replacement delayed due to budget.

East exit 155, 156, 158 weir gearboxes removed for rehab.

Work starting on a collection diffuser valve rehab for scoping purposes on remaining valves

Collection channel removal of stuck dewater pump end Jan.

North ladder diffuser valves preventative maintenance underway. One broke valve being repaired.

Long term repair items; 154 -157 rehab/weir wheel replace, diffuser valve overhaul (rehab and decommission).

Fish related /non-fish funded items; Spillway assessment, spillway crane replace and spillgate 9. All awaiting funding.

All spillway items on Critical Infrastructure. Spillgate 9 on large cap list, projected for 2022. Charter in place for comprehensive spillway assessment.

#### Research/Construction/Contractors:

Fish Counters - Normandeau video review counting through the winter.

Pikeminnow dam angling - Done for season with a total catch at 1776. Highest invasive walleye by-catches do date being released. Concern brought to FPOM.

AWS construction - Construction progress continues. Commissioning testing Mar 31.

Lamprey minor mods - Rounded entrance weir caps on sight. Working on attaching to west weirs. South and north to follow.

Railroad track removal - Tailrace deck rail removal approx. half completed.

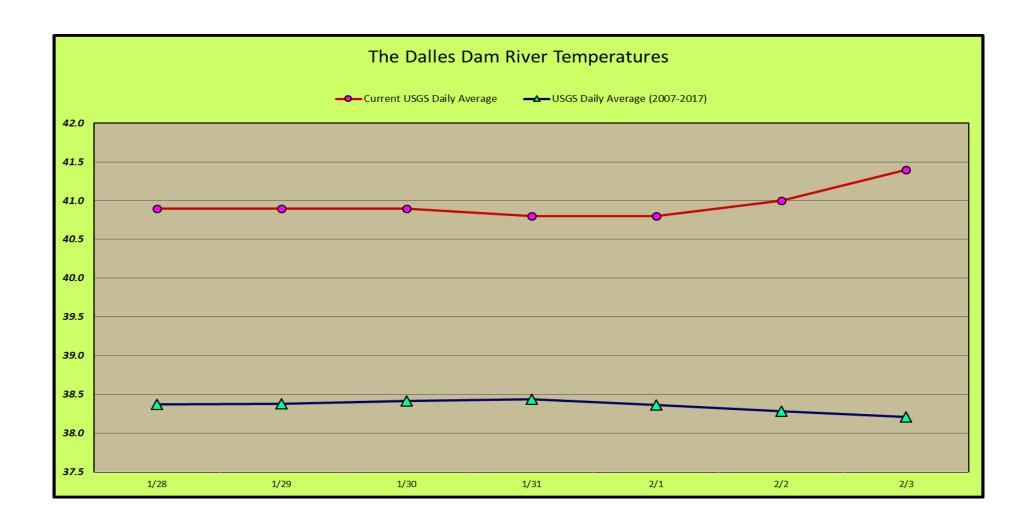
Fish unit breaker replace. - Work in progress. Completion Feb18, 2018. Two weeks commission testing required.

Fish unit rehab - Phase 1A report Jan 2018. Award 2020. Completion 2022.

Transformer replacement - Install start May 2018.

Approved by: Ron Twiner

Operation Project Manager The Dalles Dam



_			USGS:
ſ	Secchi:		Temperatures
1/28	5.0	Sun	40.9
1/29	5.0	Mon	40.9
1/30	5.0	Tue	40.9
1/31	5.0	Wed	40.8
2/1	5.0	Thurs	40.8
2/2	5.0	Fri	41.0
2/3	5.0	Sat	41.4
	5.0	AVG	41.0

Lower Columbia River Temperature Report for January 2018

Lower Columbia River Temperature Report for February 2018

The Dalles Dam Daily Readings and Averages for

Temperatures, Secchi, Entrances, and Spill

= Out of criteria

	North	Ladder	East Ladder										
Date:	North Entrance		East Entrance			West Entrance			South Entrance				
	Differential	N1 Depth	Differential E1 Depth	E2 Depth	E3 Depth	JP 6	Differential	W1 Depth	W2 Depth	W3 Depth	Differential	S1 Depth	S2 Depth
1/28													
1/29													
1/30													
1/31	1.4	8.8	East Ladder dewatered for winter										
2/1	1.3	9.3							•				
2/2	1.4	9.1											
2/3	1.3	9.3											
AVG:	1.4	9.1											

Fishways are inspected twice daily plus one SCADA inspection.