The Dalles Dam Fishway Status Report

7/4/21

Inspection Period: 6/27-7/3

THE DALLES DAM



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The Dellee Dem	Inspections	Criteria	Total Number of Inspection	14	Temperature:	68.7	°F			
The Dalles Dam	ooc	Limit	Comments:		Weekly Ave. Secchi: 5.4					
NORTH FISHWAY										
Exit differential	0	≤ 0.5'								
Count station differential	0	≤ 0.3'								
Weir crest depth	0	1.0' ± 0.1'								
Entrance weir N1	0	1.0' - 2.0'	Weekly average 10.1							
Entrance Differential	0	depth (≥ 8')	Weekly average 1.3							
Entrance weir N2	0	Closed								
PUD Intake differential	14	≤ 0.5'	Unable to rake PUD intake, c	lifferential betw	veen .6 and	d .7'.				
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	1.0' ± 0.1'								
Junction pool weir JP6	0	> 7.0'								
East entrance differential	0	1.0' - 2.0'	Week a	ve. 1.5						
Entrance weir E1	0	No criteria								
Entrance weir E2	0	depth (≥ 8')	Week a	ave. 11.5						
Entrance weir E3	0	depth (≥ 8')	Week a	ave. 13.2						
Collection channel velocity	0	1.5 - 4 fps	2.69 fps 6/29/21							
Transportation channel velocity	0	1.5 - 4 fps	2.57 fps 6/29/2021							
North channel velocity	0	1.5 - 4 fps	2.56 fps, 6/29/2021							
South channel velocity	0	1.5 - 4 fps	2.19 fps 6/29/21							
West entrance differential	0	1.0' - 2.0'	Old SCADA Week a	ave. 1.4						
Entrance weir W1	0	depth (≥ 8')	Week a	ave. 11.6						
Entrance weir W2	0	depth (≥ 8')		ave. 11.6						
Entrance weir W3	0	No criteria	Closed							
South entrance differential	0	1.0' - 2.0'	Week	ave. 1.5						
Entrance weir S1	0	depth (≥ 8')	Week	ave. 10.0						
Entrance weir S2	0	depth (≥ 8')	Week	ave. 9.0						
			JUVENILE PASSAG	E						
Sluicegate operation	0	Units 1, 18	Gates over MU1/1-2-3,MU8/	1-3,MU18-2 op	en					
Turbine trashrack drawdown	0	<1.5', biwkly	6/29/21, all gatewells in criteria.							
Spill volume/pattern	0	1 to 8	Spilling 8 gates.							
Turbine Unit Priority	0	per FPP								
Gatewells	0	Weekly	Few Mini jacks and smolts in	gatewells, 6/2	9/2021, 1	adult shad mort.				

OTHER ISSUES:

Current Unit Outages

MU7 OOS 0600 6/1/2021 - 1700 7/15/2021 Overhaul

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

MU13 OOS 7/6/2021 - 7/15/2021 1700 for Annual

MU19 OOS 6/27/2021 0630 - 10/27/2022 1700 for Top Plate Cover Upgrade

Maintenance

Spillway assessment (MRER); Spillgates 1-9 rehab date estimate 2034. Includes replacement of spillbay 9 trunnion pin repair

PUD intake rake returned to service with temporary power. Exploring permanent options.

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

Fishway automation replacement on hold from lack of staff. East exit, east and south entrances complete. West and north operating with old system.

Calibrations 6/29/21. All gates in criteria >8'.

Predators

Herons reduced presence in east fishladder with new netting, frequent ladder walks and USDA hazing.

USDA hazing cormorants feeding at east fishway exit and entrance.

Increased gull/pelican numbers below spillway in SW4. High pelican foraging numbers in SW3-4. Shad running.

No opportunity for Green laser use for piscivorous bird hazing testing.

Pikeminnow dam angling ongoing. Removing native pikeminnow, yet All invasive bass/walleye by-catch continue to be RELEASED per ODFW requirement.

Game camera Images at east ladder exit indicate herons during daylight period and cormorants in daylight and at night?

Research/Construction/Contractors

Fish counters started Apr1. No issues.

AWS intake trashrack - EDR funded for FY21 to investigate solution for debris plugging issue. PDT meetings in progress.

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

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

Northern Pikeminnow Management Program w/51npm for the week, 1049 YTD

Fishway Operations

Ice Trash sluiceway opened 24/7. MU1/1-2-3, MU 8/1-2, MU18/2

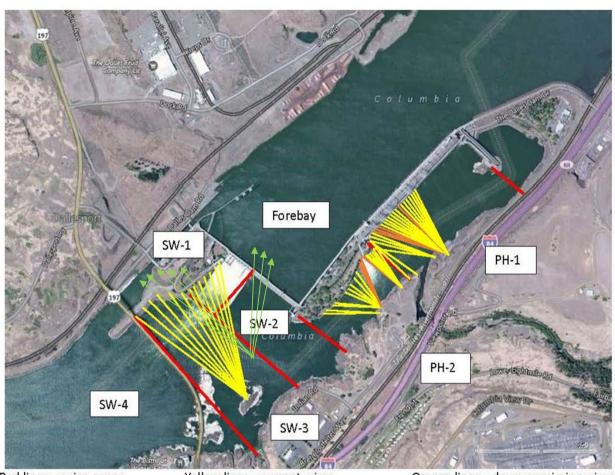
East and north fishladders in full operation per Fish Passage Plan.

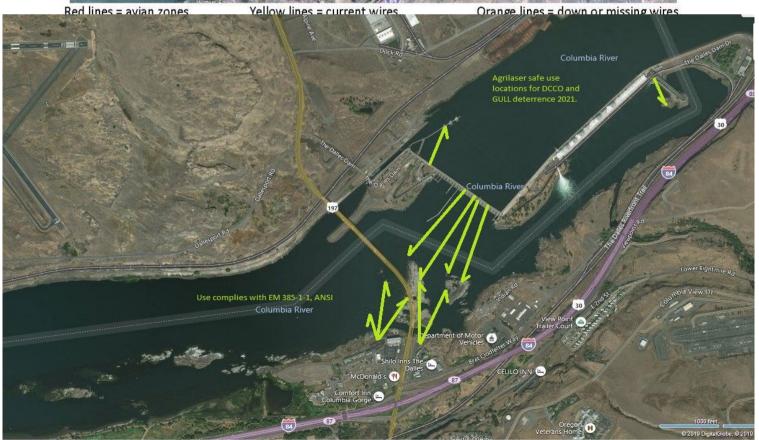
New automation installed at east exit, east entrance and south entrane working well with minor adjustments.

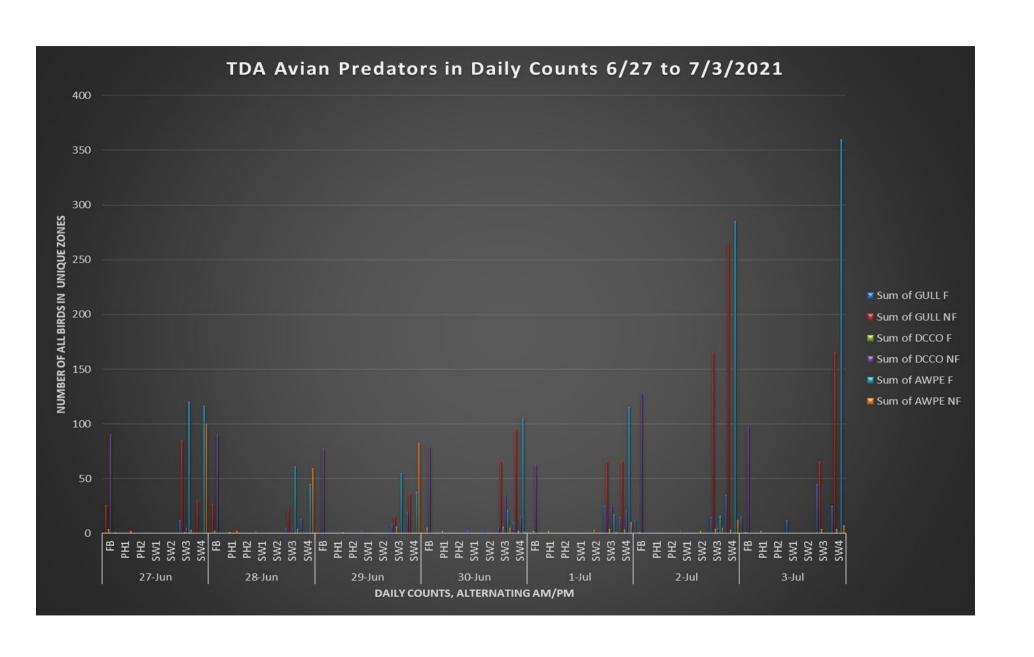
Spillway open at 40% river flow

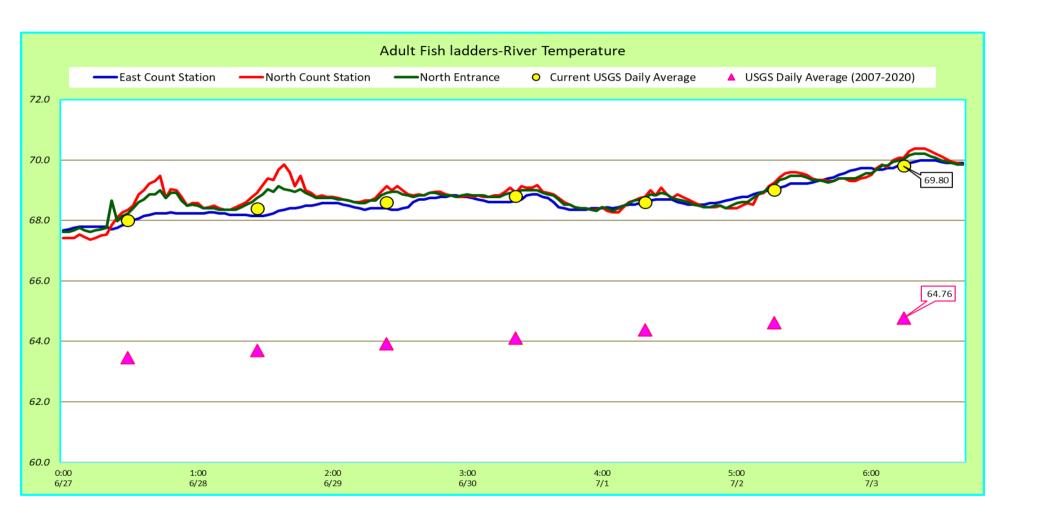
Approved by: Ron Twiner, Operation Project Manager, The Dalles Dam

New Avian Lines and laser deterrent zones









	Secchi:		° F
6/27	5.0	Sun	68.0
6/28	5.0	Mon	68.4
6/29	5.0	Tue	68.6
6/30	5.0	Wed	68.8
7/1	6.0	Thurs	68.6
7/2	6.0	Fri	69.0
7/3	6.0	Sat	69.8
	5.4	AVG	68.7

The Dalles Dam Daily Readings and Averages for

Temperatures, Secchi, Entrances, and Spill

E1 and W3 no criteria out of criteria

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
6/27	1.2	10.1	1.7	6.2	10.6	12.9	11.2	1.4	11.0	11.0	-0.3	1.6	9.8	8.0
	1.3	10.1	1.4	6.9	11.5	13.8	11.9	1.5	10.9	10.9	-1.0	1.5	10.1	8.3
6/28														
	1.3	10.2	1.5	7.3	11.6	13.9	12.3	1.5	10.8	10.8	-0.5	1.6	10.1	8.2
	1.3	10.1	1.3	7.9	12.2	14.5	13.0	1.6	10.9	10.9	0.0	1.4	10.5	8.6
0/00														
6/29	1.4	10.1	1.6	8.0	11.0	13.4	13.0	1.5	11.0	11.0	0.2	1.5	10.7	8.7
	1.3	10.0	1.5	9.4	11.1	13.4	14.4	1.6	11.9	11.9	1.5	1.5	10.7	9.3
6/30	1.2	10.1	1.6	0.2	10.0	12.5	12.4	1.5	12.1	12.1	0.4	1.5	10.0	0.7
	1.3	10.1	1.6	8.3	10.8	13.5	13.4	1.5	12.1	12.1	0.4	1.5	10.9	8.7
	1.3	10.2	1.4	8.7	11.6	14.5	13.7	1.5 1.4	11.9	11.9	0.8	1.5	9.7	9.6
7/1	1.3	10.1	1.6	7.5	10.6	13.7	12.5	1.4	11.9	11.9	-0.2	1.5	9.6	9.4
// 1	1.3	10.1	1.5	8.7	11.1	12.6	12.7	1.4	12.0	12.0	-0.2	1.4	9.8	9.7
	1.5	10.1	1.5	0.7	11.1	12.0	12.7	1.3	12.0	12.0	0.2	1.7	5.0	3.7
7/2	1.3	9.1	1.5	8.4	12.6	12.6	12.4	1.3	11.0	11.0	-0.9	1.5	9.2	9.1
	1.4	10.1	1.3	11.4	12.6	12.6	13.4	1.4	12.6	12.6	0.4	1.4	9.7	9.6
								1.3					2.7	
7/3	1.3	10.2	1.6	10.9	11.3	11.6	12.9	1.3	11.9	11.9	0.2	1.5	9.7	9.5
	1.3	10.2	1.5	11.2	11.6	11.9	13.2	1.5	12.0	12.0	0.3	1.4	9.7	9.6
AVG:	1.3	10.1	1.5	8.6	11.5	13.2	12.8	1.4	11.6	11.6	0.0	1.5	10.0	9.0

Fishways are inspected twice daily. Overnight trend monitored via Old SCADA operating at west entrance.

