The Dalles Dam Fishway Status Report

12/12/21

THE DALLES DAM



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

Inspection Period:12/5 - 12/11, 2021

		Cuiteria	Total New Law of L		10	Tomporations	48.7	٥ ٢
The Dalles Dam	Inspections	Criteria Limit	Total Number of Ins Comments:	fished EFL below T	10	Temperature:	°F 4.0	
	000							
			NORTH F	ISHWAY				
Exit differential	0	≤ 0.5'						
Count station differential	0	≤ 0.3'						
Weir crest depth	0	1.0' ± 0.1'						
Entrance weir N1	0	depth (≥ 8')	Weekly average	9.6				
Entrance Differential	0	1.0' - 2.0'	Weekly average	1.4				
Entrance weir N2	0	Closed						
PUD Intake differential	0	≤ 0.5'	Significant aquatic w	eeds accumulating.	Rake turned	over to PUD opera	tions.	
		EAST	FISHWAY	- out of se	rvice			
Exit differential		≤ 0.5'						
Removable weirs 154-157		Per forebay						
Weir 158-159 differential		1.1' ± 0.1'						
Count station differential		≤ 0.3'						
153 Weir crest depth		1.0' ± 0.1'						
Junction pool weir JP6		> 7.0'	Average for week =	16.5				
East entrance differential		1.0' - 2.0'						
Entrance weir E1		No criteria						
Entrance weir E2		depth (≥ 8')						
Entrance weir E3		depth (≥ 8')						
Collection channel velocity		1.5 - 4 fps	Dewatered					
Transportation channel velocity		1.5 - 4 fps	Dewatered					
North channel velocity		1.5 - 4 fps	2.6 fps 12/7/21					
South channel velocity		1.5 - 4 fps	Dewatered					
West entrance differential		1.0' - 2.0'		Week ave. 0.0				
Entrance weir W1		depth (≥ 8')		Week ave. 0.0				
Entrance weir W2		depth (≥ 8')		Week ave. 0.0				
Entrance weir W3		No criteria	Closed					
South entrance differential		1.0' - 2.0'		Week ave. 0.0				
Entrance weir S1		depth (≥ 8')		Week ave. 0.0				
Entrance weir S2		depth (≥ 8')		Week ave. 0.0				
			JUVENILE	BYPASS				
Sluicegate operation	0		Gates over MU1/1-2		U8/1-3,MU18-2	2 open. Total 4 ope	n gates through	Dec15
Turbine trashrack drawdown	0	<1.5', biwkly	10/20/21, all gatewel	lls in criteria.				
Spill volume/pattern	0	1 to 8	Spill closed 9/1/21					
Turbine Unit Priority	0		Mus 1-3 OOS due to	o crane rail replacem	nent work.			
Gatewells	0	Weekly	No mortality 11/17/20	021.				

OTHER ISSUES:

Current Unit Outages

- SS01 OOS 0001 11/17/2021 1700 11/24/2021 for Annual
- MU3 OOS 0630 9/20/2021 1700 11/24/2021 for Crane Rail Replacement
- MU2 OOS 0630 9/20/2021 1700 11/24/2021 for Crane Rail Replacement
- MU1 OOS 0630 9/20/2021 1700 11/24/2021 for Crane Rail Replacement
- 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
- MU19 OOS 0630 6/27/2021 1700 10/27/2022 for Top Plate Cover Upgrade

Navlock outage Feb 13-Mar19

Maintenance

Permanent oil boom removed from east exit for repairs. Attachment bracket redesign.

Fishway automation replacement work in progress. Approximately half complete.

Calibrations: North channel openings in criteria. Upgrades to east opening automation gates underway by TDE.

12/7/2021 North channel velocity measured with floating peel 2.7 fps. North channel measured with new mechanical meter, 2.6 fps.

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

East fishway lower channels dewatered for winter maintenance; 10 steelhead, 1 coho, 138 lamprey, 4 sturgeon, 7 walleye

MU1 dewatered for overhaul. No fish found in scroll or draft tube.

Predators

Few cormorants foraging in SW2 & 3. Bald eagles beginning to show up.

Western gulls foraging at nav lock and in PH1/ PH2

More walleye found in east fishway channels than previous years.

Research/Construction/Contractors

TD-USGS °F For water temps

AWS intake trashrack/trash rake- No funding FY22.

Fish Accords Lamprey Passage plan for The Dalles ongoing at 30% DDR junction pool. Will discuss east ladder dewatering lamprey morts. PITAGS north and east fishladder data collection at count stations continues.

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

Northern Pikeminnow Management Program season concluded w/1384 native pikeminnow removed YTD

PUD removing debris from location where a new juvenile sampling facility will be construted prior to upcoming fish season 2021/2022 Crane rail replacement underway on intake deck units 1-4. Sluicegates unit 1 moved to unit 4 open.

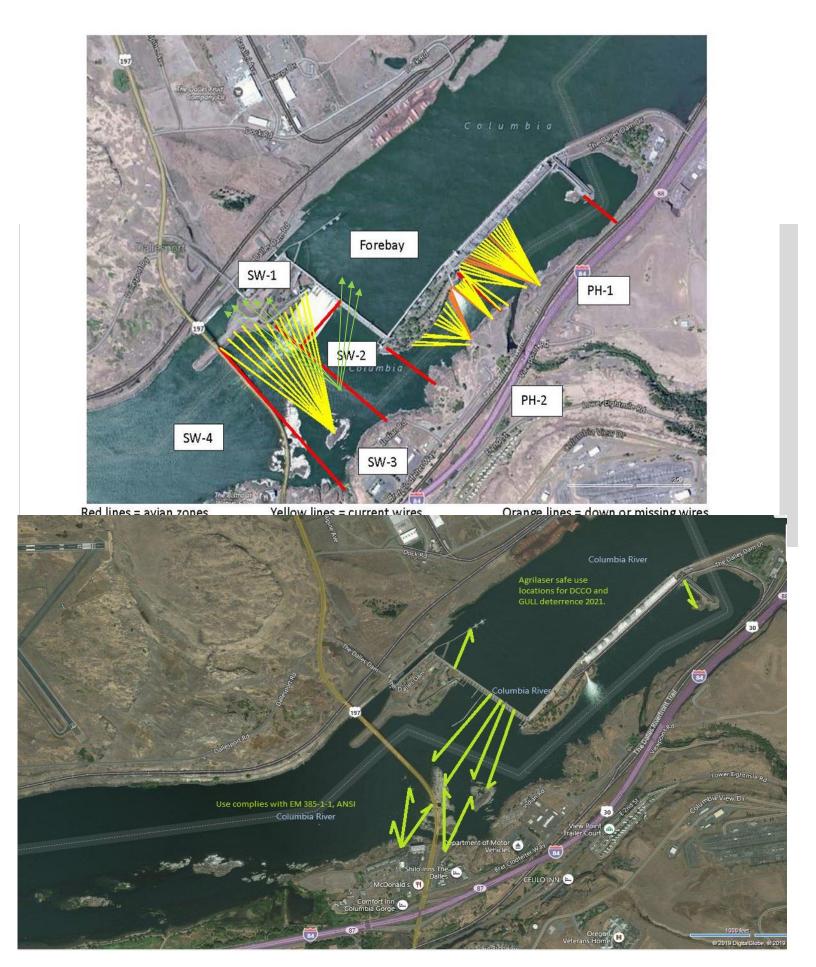
Additional PIT tags recovered from east ladder found in gravel piles at east, west and south entrances. Will be uploaded to PTAGIS site TDAMRT <u>Fishway Operations</u>

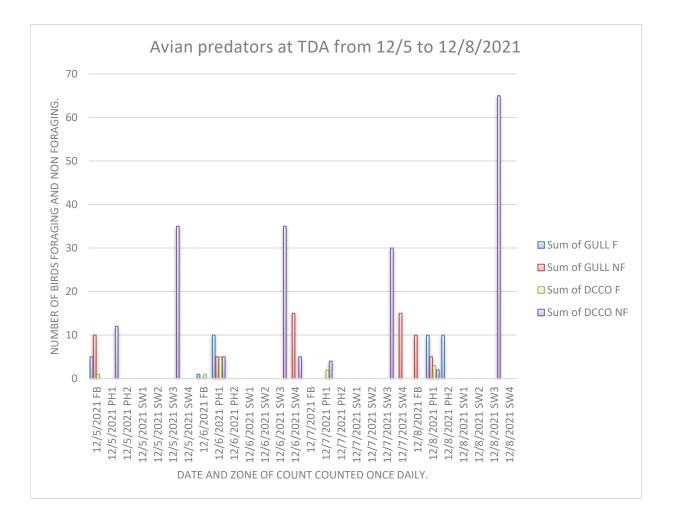
Ice Trash sluiceway opened 24/7. MU4/1-2-3, MU 8/1-2, MU18/2 Sluice openings move to unit 4 due to concrete-crane rail removal East and north fish ladders in full operation per Fish Passage Plan.

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

New Avian Lines and laser deterrent

zones

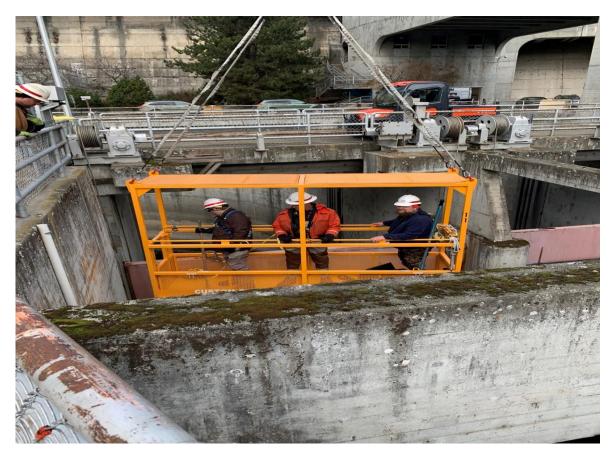




	12/5 12/6 12/7 12/8 12/9 12/11	Secchi: 6.0 5.0 5.0 3.0 3.0 2.0 4.0	Sun Mon Tue Wed Thurs Fri Sat median	USGS°F 48.8 48.7 48.8 48.7 48.8 48.4 48.2 48.3 48.7				Dalles Dam Daily Femperatures, Se	ecchi, Entr		-		E1	and W3 no criter out of criteria	ria
Date:	North I	Ladder	East Entrance				East Ladder State				South Entrance				
	Differential	N1 Depth	Differential	E1 Depth	E2 Depth	E3 Depth	JP 6	Differential	W1	W2	W3	Differential	S1	S2	
12/5	1.5	9.5													
12/6	1.4	9.4													
12/7	1.4	9.4													
12/8	EFL dewat tailw			Fish Turbines off at 00:00 12/1 EL dewatered 12/2											
12/9	1.4	9.7													
12/10	1.4	9.8													
12/11	1.3	9.7													
AVG: 1.4 9.6 Fishways are inspected twice daily. Overnight trend monitored via Old SCADA operating at west entrance.															



Lamprey found 12/4/2021 stranded in east ladder above tailwater. Recovery and examination 12/7/2021 MFR provided to FPOM. Continuing search to resolve this problem. Lamprey improvement team notified.



Dewater lower channel 12/8/2021

