The Dalles Dam Fishway Status Report

7/25/22

Inspection Period 7/17-7/23 2022

THE DALLES DAM



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

The Dellas Dam	Inspections	Criteria	Total Number of Inspections:		14	Temperature: 67.2 °F	°F			
The Dalles Dam	000	Limit			RCC restricted FB	Weekly Ave. Secchi:	5.0			
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	depth (≥ 8')		11.1						
Entrance Differential	0	1.0' - 2.0'		1.3						
N2	0	Closed								
PUD Intake differential	0	≤ 0.5'								
			EAST FIS	HWAY	(
Exit differential	0	≤ 0.5'								
Removable weirs 154-157	0		Note; 155 weir hoist f	ailed. Foreb	av restriction minimu	m 157' applied.				
Weir 158-159 differential	0	1.1' ± 0.1'	,				-			
Count station differential	0	≤ 0.3'	Count station pickets	pluaaina up	with weeds requiring	g frequent raking to restore differential				
153 Weir crest depth	0	1.3' ± 0.1'				weed debris buildup on east pickets.				
Junction pool weir JP6	0	> 7.0'	Weekly average	13.5	Ĭ	'				
East entrance differential	0	1.0' - 2.0'	Weekly average	1.5						
Entrance weir E1	0	No criteria	Weekly average	8.2	Requires regular ma	anual corrections due to high tailwater.				
Entrance weir E2	0	depth (≥ 8')	Weekly average	11.9		anual corrections due to high tailwater.				
Entrance weir E3	0	depth (≥ 8')	Weekly average	11.9		anual corrections due to high tailwater.				
Collection channel velocity	0	1.5 - 4 fps	1.77 fps 7/23	•	<u> </u>					
Transportation channel velocity	0	1.5 - 4 fps	4.6 fps 7/23							
North channel velocity	0	1.5 - 4 fps	2.31 fps 7/23							
South channel velocity	0	1.5 - 4 fps	2.81 fps 7/23							
West entrance differential	0	1.0' - 2.0'	Weekly average	1.3						
Entrance weir W1	0	depth (≥ 8')	Weekly average	9.9						
Entrance weir W2	0	depth (≥ 8')	Weekly average	10.5						
Entrance weir W3	0	No criteria	Weekly average	0.2						
South entrance differential	0	1.0' - 2.0'	Weekly average	1.5						
Entrance weir S1	0	depth (≥ 8')	Weekly average	10.4						
Entrance weir S2	1	depth (≥ 8')	Weekly average	9.2	Problem w	vith gate S2 TR to TDE, unresolved.				
			JUVENILE	BYPAS	S					
Sluicegate operation	0	Units 1, 8, 18	Pattern per FPP.							
Turbine trashrack drawdown	0									
Spill volume/pattern	0	1 to 22	Pattern per FPP according to volume.							
Turbine Unit Priority	0	per FPP	,							
Gatewells	0	Weekly	7/19/22, significant numbers of subyearlings and adult shad observed. No mortality.							

Current Outages

T10 (MU19 & 20) FOOS through 10/27/2022 due to acetylene levels

MU12 OOS 0001 4/12/2021 - 1700 10/27 7/10/2022

MU14 fished for 6 year overhaul. Juvenile sturgeon and catfish returned to tailwater

Spillgate 14 forced out of service due to operational issues. RTS after spill season. Nine of 15 gates south of spillwall now OOS.

Maintenance

East fishladder weir 155 hoist failed. Weir in down position. Return to service Jan 2023, depending on funding. Forebay restriction 157.

Permanent oil boom reinstall planned for April was postponed until this winter. Plan to extend to cover AWS intake.

Calibrations on east fishway entrances. E-2 ~6" out of calibration, All in criteria. TR South gates.

Spillway assessment (MRER); Spillgates 1- 9 rehab 2034. Includes spillbay 9 trunnion pin repair. Spillway crane first priority

Fish unit rehab Phase 1A awaiting funding.

AWS intake trashrack debris management - restart meeting July 27th.

Fish unit intake differential monitored. Intake ROV inspection 8/16

South gates moving at differing elevations during commands from HMI, S2 elevating itself out of criteria. TDE troubleshooting.

Predators

Falconry completed on 7/14/2022. Continuing to track gull/cormorant numbers.

USDA hazing by shore and daily counts completed. Final week of boat hazing 7/22.

Planning removal of bass/walleye/catfish from all dewaterings for gut sample analysis. Permit pending.

Large numbers of pelicans departed project and Three Mile Creek area.

Northern Pikeminnow Management Program Columbia River Dam Angling & Site-Specific Fishery. 109 fish removed 7/11-7/22 w/ 348 YTD

Research/Construction/Contractors

USGS river temperatures link <u>JULY</u>

4 peaks counting 4/1-10/31

Planned improvements to tribal lamprey trapping equipment. Reduced to bare minimum due to funding constraints

Pikeminnow removal program

Fish Accords Lamprey Passage plan ongoing at 90% due 09/01 DDR junction pool LPS. Investigating mods for entrance and exit weirs.

PTAGIS fishladder data collection at count stations continues.

Ladder flow taken out of shad mode 1.3' and returned to salmon criteria 1.0'

Lamprey translocation project reporting 872 captures/YTD traps pulled-operation closed 7/23-8/2 due to 100° temperatures

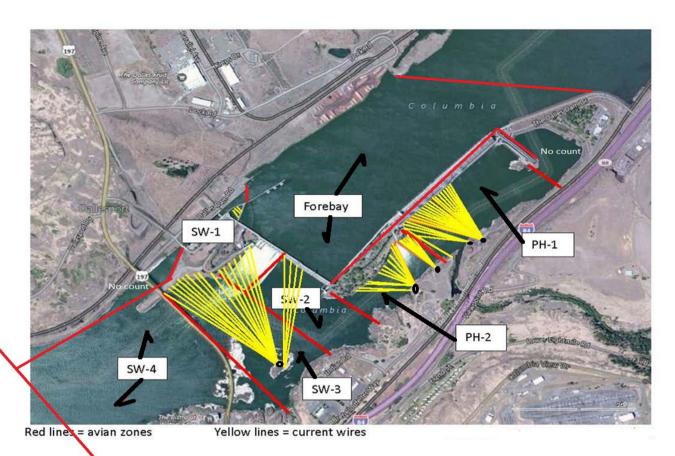
Operations

Ice Trash sluiceway endgate open. Sluicegates 1,8,18 open per FPP.

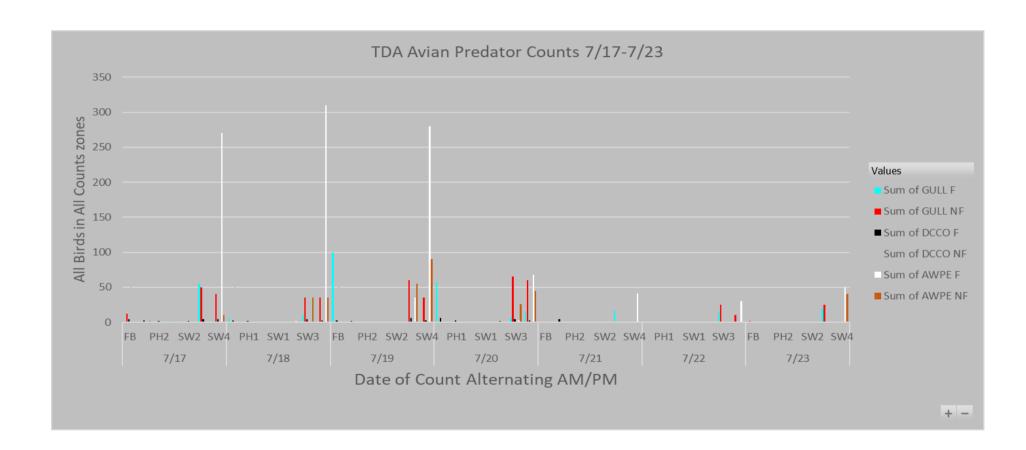
East and North fishways in full service

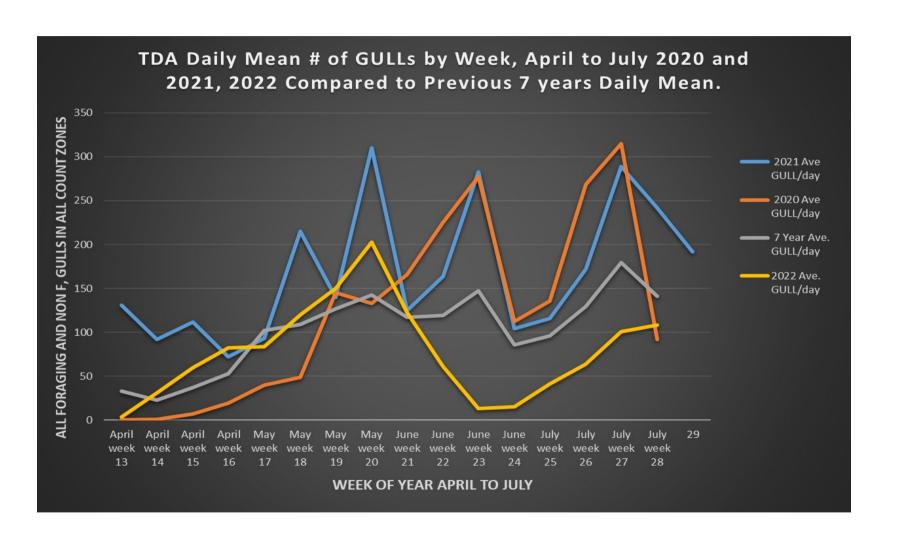
Approved by: Ron Twiner, Operation Project Manager, The Dalles Dam

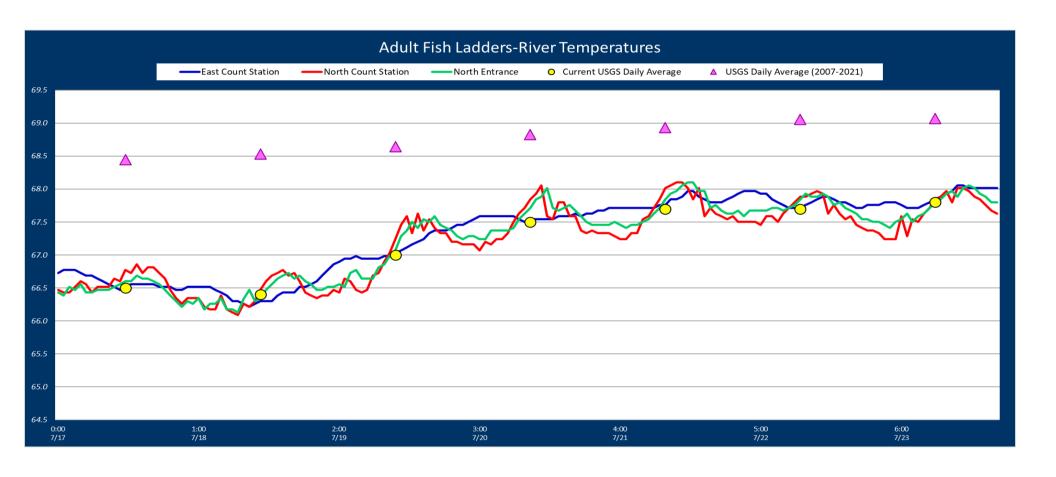
Bird Count Zones, Avian Lines and Laser Deterrent Sites











Secchi:		USGS°F			
5.0	Sun	66.5			
5.0	Mon	66.4			
5.0	Tue	67.0			
5.0	Wed	67.5			
5.0	Thurs	67.7			
5.0	Fri	67.7			
5.0	Sat	67.8			
5.0	AVG	67.2			

Reporting week data

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
7/17	1.3	10.7	1.7	4.5	11.5	11.5	13.5	1.1	10.7	11.4	0.1	1.5	10.7	10.0
	1.4	10.7	1.4	7.3	12.3	12.3	14.3	1.2	10.6	11.3	0.7	1.5	10.7	10.7
7/18														
	1.2	10.6	1.6	7.0	12.0	12.0	12.4	1.4	9.8	10.5	-0.8	1.5	10.5	10.1
	0.0	0.0	1.5	7.3	12.2	12.2	12.7	1.2	10.4	11.1	0.3	1.6	9.9	9.3
7/19														
	1.3	10.6	1.6	7.1	11.9	12.1	12.6	1.6	8.8	9.5	-0.7	1.4	10.5	9.6
	1.4	10.6	1.5	8.8	10.8	10.8	13.8	1.4	9.7	10.4	0.3	1.6	10.3	9.2
7/20														
	2.0	10.5	1.7	7.2	11.6	11.9	12.2	1.5	9.1	9.8	-0.9	1.5	10.5	9.0
	1.4	10.7	1.3	9.7	11.3	11.5	14.7	1.3	10.3	11.0	1.1	1.4	10.9	9.3
7/21														
	1.4	10.6	1.5	8.3	12.2	12.6	13.3	1.3	9.4	10.1	0.1	1.4	10.2	9.6
	1.3	10.6	1.4	9.2	12.7	13.1	14.2	1.3	11.7	10.4	0.4	1.3	10.3	9.7
7/22														
	1.3	10.7	1.4	9.2	12.5	12.9	14.2	1.3	10.3	11.0	0.9	1.5	9.6	8.6
	1.3	10.6	1.4	9.6	12.9	13.2	14.6	1.2	10.6	11.3	1.3	1.6	9.5	8.3
7/23	1.3	10.1	1.6	9.9	11.3	12.0	12.9	1.6	8.5	9.2	-0.2	1.3	10.9	6.9
	1.3	10.6	1.5	10.2	11.6	11.7	13.2	1.5	8.8	9.5	0.1	1.5	10.7	9.0
AVG:	1.3	9.8	1.5	8.2	11.9	12.1	13.5	1.3	9.9	10.5	0.2	1.5	10.4	9.2
Fishways are inspected twice daily.									found out	of criteria				

