

The Dalles Dam Fishway Status Report

01/10/2021

Inspection Period: 01/03-01/09

THE DALLES DAM



The Dalles Project-Fisheries
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The Dalles Dam	Inspections OOC	Criteria Limit	Total Number of Inspections: 21	Temperature: 42.3 °F
			Comments: fishways functional	Weekly Average Secchi: 6.0

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')	9.4
Entrance weir N2	0	Closed	
PUD Intake differential	0	≤ 0.5'	TDM unable to remove significant floating weeds buildup. North FB index data unreliable.

EAST FISHWAY

	Fishway closed			
North channel velocity		0	1.5 - 4 fps	3.22 fps, 12/6/2020
		Fishway closed		

JUVENILE PASSAGE

Sluicgate operation	0	Units 3, 18	MU8 OOS and MU1-2 OOS
Turbine trashrack drawdown	0	<1.5', biwkly	11/26/2020 checked, all in criteria.
Spill volume/pattern	0	1 to 8	Spill closed 9/1/2020.
Turbine Unit Priority	21	per FPP	All available MUs running; OOC due to forced outages
Gatewells	0	Weekly	11/26/2020 fish check, no fish mortality seen.

OTHER ISSUES:

Current Unit Outages

- Line 1, MU1, & MU2 OOS for T1 replacement MU2 Overhaul and MU1 Annual through 2/28/2021
- T10 (MU19 & 20) FOOS through 10/28/2021 due to acetylene levels
- SSO1 OOS for Overhaul and DC Governor oil Pump Install 0630 11/2/2020 - 1700 1/14/2021
- FU1 OOS 0001 12/1/2020 – 1700 1/21/2021 for Overhaul & TA Vault Demo
- FU2 OOS 0001 12/1/2020 – 1700 1/21/2021 for Annual & TA Vault Demo
- T6 OOS 12/14/2020 - 1700 12/21/2020 for GSU Re-Work, Oil Leak Repairs

Maintenance

Repairing wind damaged debris guard for north fishladder exit.

PUD intake rake out of service due to power track damage. Exploring repair options. Temporary fix planned for 2021 season.

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

East and north fishway automation PLC panels installed. All sensors installed. Programming underway. Completion target end Jan.

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

Calibration checks on North fishway entrance and exits 12/11/20, all within criteria.

Diffuser grating panel missing at east entrance. Dive repair next week.

New seals installed on 158 weir

Predators

Moderate/high gull numbers. Refer to avian graph tab for bird numbers.

Green laser use for piscivorous bird hazing testing continues. Effective on roosting birds during low light.

Invasive aquatic weeds significant at north exit.

Pikeminnow dam angling resumes next May. **All invasive bass/walleye by-catch release to continue per state requirement.**

Research/Construction/Contractors

District Dive office to ROV east fishway diffuser grating, AWS and east exit trashracks completed. Missing grating panel found at east entrance.

AWS intake trashrack - EDR funded for FY21 to investigate solution for debris plugging issue.

PITAGS north and east fishladder data collection at north count stations continues. East antenna annual maintenance this month during dewatering.

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

Fishway Operations

North fish ladder in full operation-East ladder dewatered 12/2

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

Gull and Cormorant activity by zone

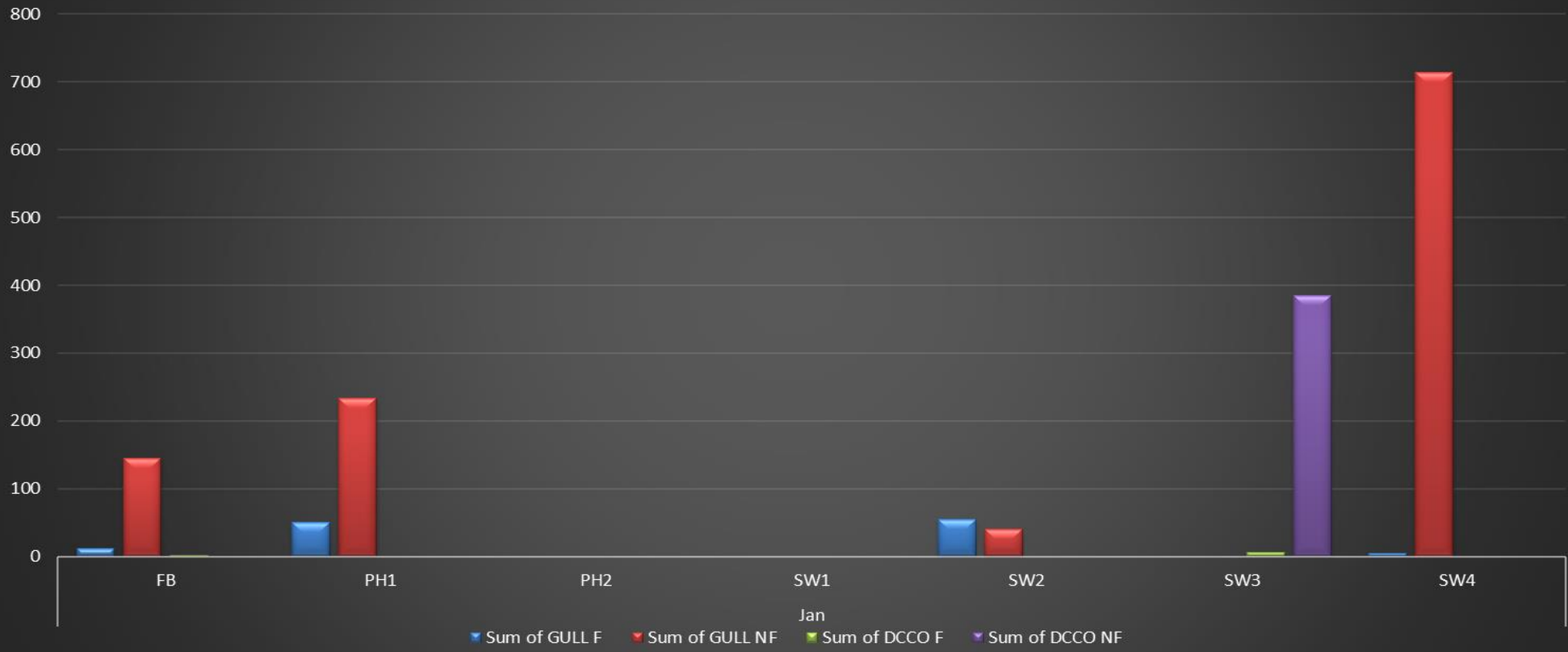
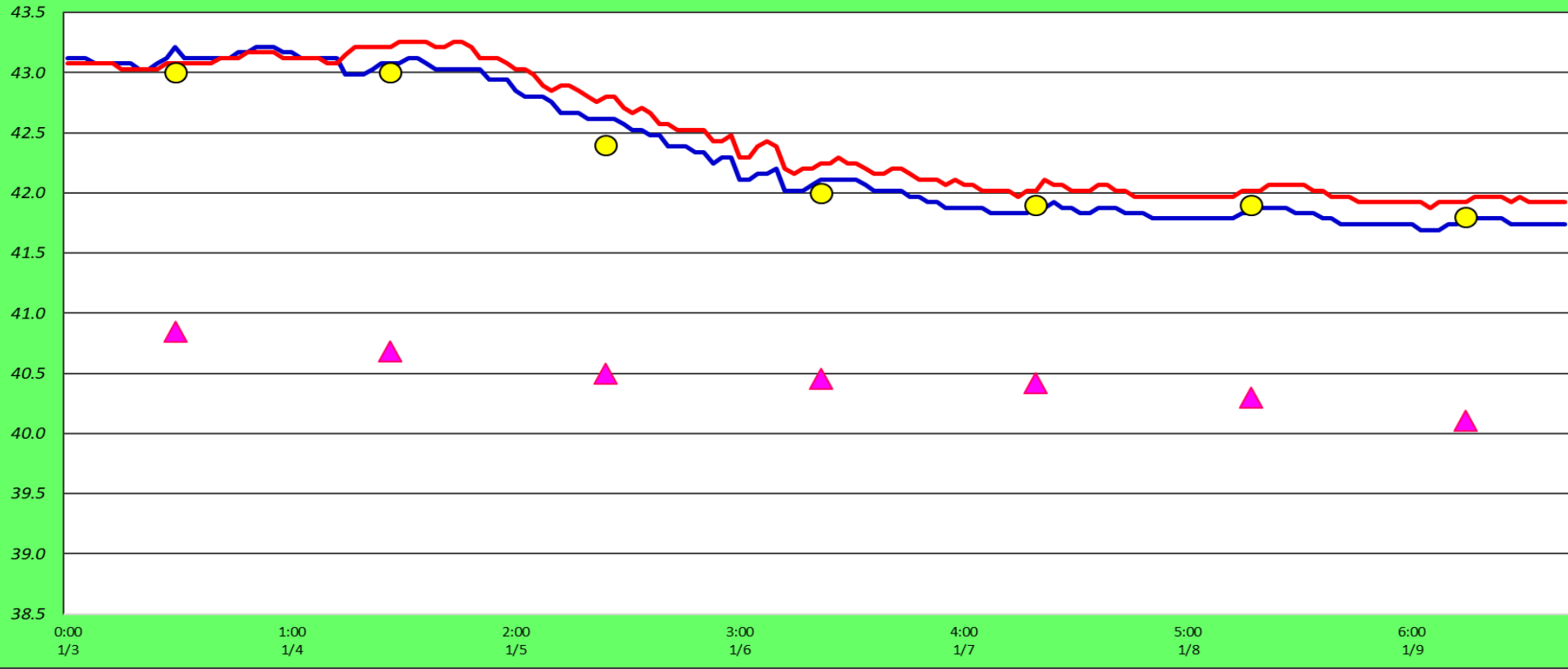


Chart Title

— North Count Station — North Entrance ● Current USGS Daily Average ▲ USGS Daily Average (2007-2021)



Secchi:		°F
6.0	Sun	43.0
6.0	Mon	43.0
6.0	Tue	42.4
6.0	Wed	42.0
6.0	Thurs	41.9
6.0	Fri	41.9
6.0	Sat	41.8
6.0	AVG	42.3

USGS Dec

The Dalles Dam Daily Readings and Averages for
Temperatures, Secchi, Entrances, and Spill

SCADA INSPECTION

out of criteria

Date:	North Ladder		East Ladder											
	Differential	N1 Depth	East Entrance					West Entrance			South Entrance			
			Differential	E1 Depth	E2 Depth	E3 Depth	JP 6	Differential	W1	W2	W3	Differential	S1	S2
1/3	1.3	9.5												
1/4	1.3	9.5												
1/5	1.5	9.2												
1/6	1.4	9.4												
1/7	1.3	9.3												
1/8	1.4	9.3												
1/9	1.4	9.4												
AVG:	1.4	9.4												

East Ladder dewatered

Fishways are inspected once daily plus one SCADA inspection.



Contractor preparing work site for sluiceway cover