THE DALLES DAM

The Dalles Dam Fishway Status Report

2/19/2017



Inspection Period: 02/12/2017 - 02/18/2017

		Fishwa	ys are inspecte	ed once daily during wi	nter					
The Dalles Dam	Inspections	Criteria		per of Inspections:		Femperatu	re:	35.8	°F	
	Out of Criteria	Limit		Snow conditions subsided		Secchi:	3.4	feet		
NORTH FISHWAY										
Exit differential	0	≤ 0.5'	1.3							
Count station differential	0	≤ 0.3'								
Weir crest depth	0	1.0' ± 0.1'								
Entrance differential	0	1.0' - 2.0'								
Entrance weir N1	0	depth (≥ 8')	9.1							
Entrance weir N2	0	Closed								
PUD Intake differential	0	≤ 0.5'								
	T		EAST	FISHWAY						
Exit differential		≤ 0.5'								
Removable weirs 154-157		Per forebay								
Weir 158-159 differential		1.0' ± 0.1'								
Count station differential		≤ 0.3'								
Weir crest depth		1.0' ± 0.1'								
Junction pool weir JP6		depth (≥ 7')								
East entrance differential		1.0' - 2.0'								
Entrance weir E1		No criteria	Out for winter maintenance and							
Entrance weir E2		depth (≥ 8')	<u> </u>	t for winte	er ma	ainte	Iar	ice a	ana	
Entrance weir E3		depth (≥ 8')						-		
Collection channel velocity		1.5 - 4 fps	AWS	S backup o	cons	Struc	tioi	1. Re	eturn	
Transportation channel velocity		1.5 - 4 fps			_					
North channel velocity		1.5 - 4 fps			2/2	8				
South channel velocity		1.5 - 4 fps								
West entrance differential		1.0' - 2.0'								
Entrance weir W1		depth (≥ 8')								
Entrance weir W2		depth (≥ 8')								
Entrance weir W3		No criteria								
South entrance differential		1.0' - 2.0'								
Entrance weir S1		depth (≥ 8')								
Entrance weir S2		depth (≥ 8')								
JUVENILE PASSAGE										
Sluicegate operation	0	Units 1, 18	Reopens Mar1	for fish passage. Opened	d during int	ermittent fo	rced spil	ll operation		
Turbine trashrack drawdown	NA									
spill	NA		Intermittent spil	l for high river flows						
Turbine 1% Efficiency	NA	per FPP	Out of fish pass	sage season						
Turbine Unit Priority	NA	per FPP	Out of fish pase	sage season						

Birds/Sea lions:

No sea lions observed. All bird numbers low.

Bird observation data collected once daily. Refer to Avian Zone map and bird count.

Spillway avian lines repair plan in progress. USDA work plan COE approvals completed. USDA prework site tour Mar1.

Operations:

North Fishway watered up Jan24. Additional temperature monitoring probe deployed at north entrance, data shown in temperature graph Two additional temperature monitoring probe to be deployed at east junction pool and south entrance prior to water up

Current Outages;

T8 (MU15 & MU16) out due to transformer failure. Transformer replacement scheduled for spring 2018.

MU21 out for exciter failure, return Feb23

MU3 out for governor oil level failure, return Feb24

Awaiting tailrace crane completion to resume turbine maintenance schedule. ETR end of March.

Maintenance:

North fishway entrance diffuser grating ROV inspected 2/15. No problems found.

PUD intake trashrack and North entrance exit ROV inspected 2/15. No problems found.

Installing material to bottom of east count station crowder to keep lamprey out from entering crowder. FPOM informed.

New east exit weir electrical panel FCQ7 installation on hold awaiting funding.

East ladder dewatered Dec1 through Feb28 for AWS backup construction and ladder maintenance. North ladder in service.

Winter work in progress; East exit weirs 154 and 159 coupler/seal replacement complete, ladder expansion joint repair (50%)

N1 weir rehab and spare swap complete, W1 weir repair/wheel replace complete/install next week.

Other repair maintenance plans; 154 -157 rehab/weir wheel replace, collection channel diffusers decommission, repair failed diffusers.

Fish related /non-fish funded items; Spillway crane and spillgate 9, both awaiting funding.

All spillway items on Critical Infrastructure list and Unfunded Requirement list.

Research/Construction/Contractors:

Normandeau supervisors scheduled 2/23 to receive badges and keys to resume fish counting for fish season 2017

North fishladder rehab/rock wall stabilizing - Awaiting funding. Possible 2018/19.

East fishladder AWS emergency backup - Forebay diving saw cutting continues. Junction pool 7' pipes span complete. Excavation 7' valve room continues. Jackhammering hole complete season 1. Excavation 10' valve room to occur in March per FPOM approval. Possible EFL outage extension FPOM approved Railroad track removal - Underway west powerhouse tailrace deck. Work over sluiceway in March FPOM approved. Crane rail replace 2021.

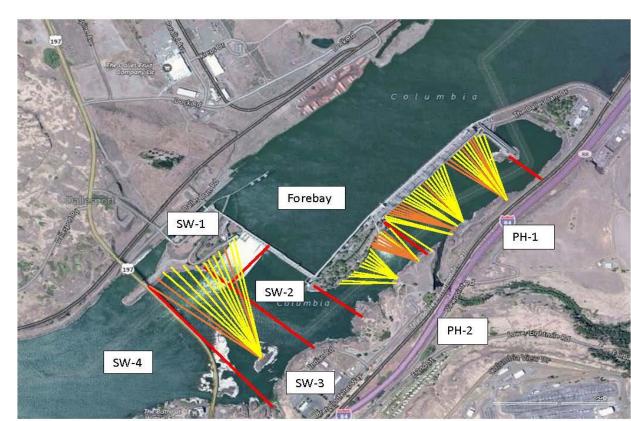
Tailrace crane rehab - Work resumed. Completion Feb.

Fish unit breaker replace.- Work start fall 2017. Switch over Jan 2018.

Fish unit rehab - Weekly coordination meetings. Phase 1A report Jan 2018. Award 2020. Completion 2022. Investigating possible increase flow capacity. Transformer replacement - Install start May 2018. Coordinated through FPOM.

N Wasco Co PUD Memo of Agreement - Complete.

Lamprey minor mods - Tribal trap hoist improvements and rounded entrance weir caps designs underway. Fab in-house '17. Install next in water work period.



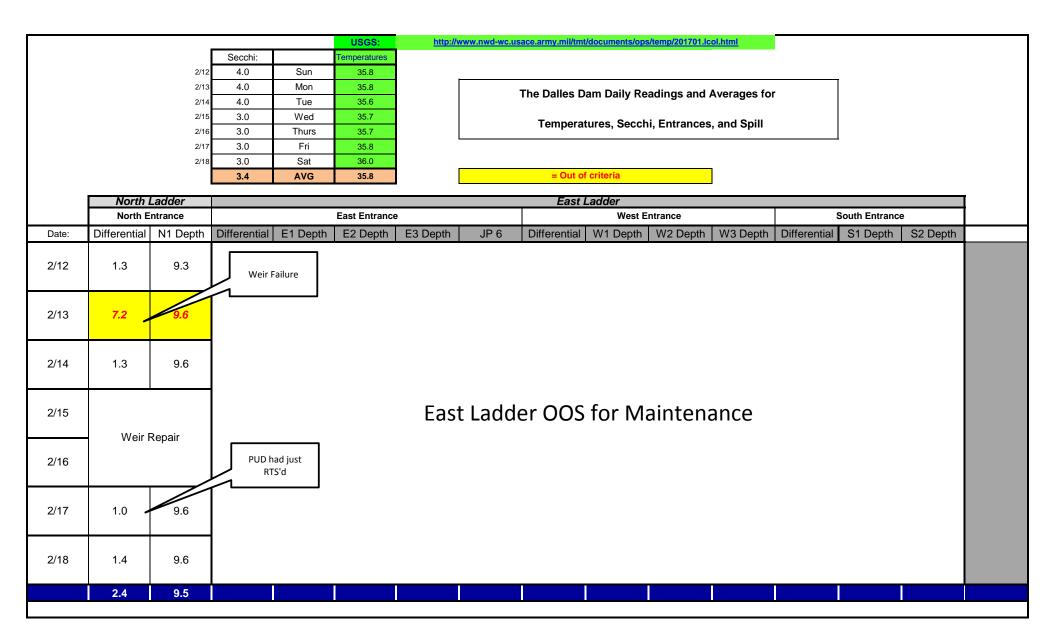
Red lines = avian zones

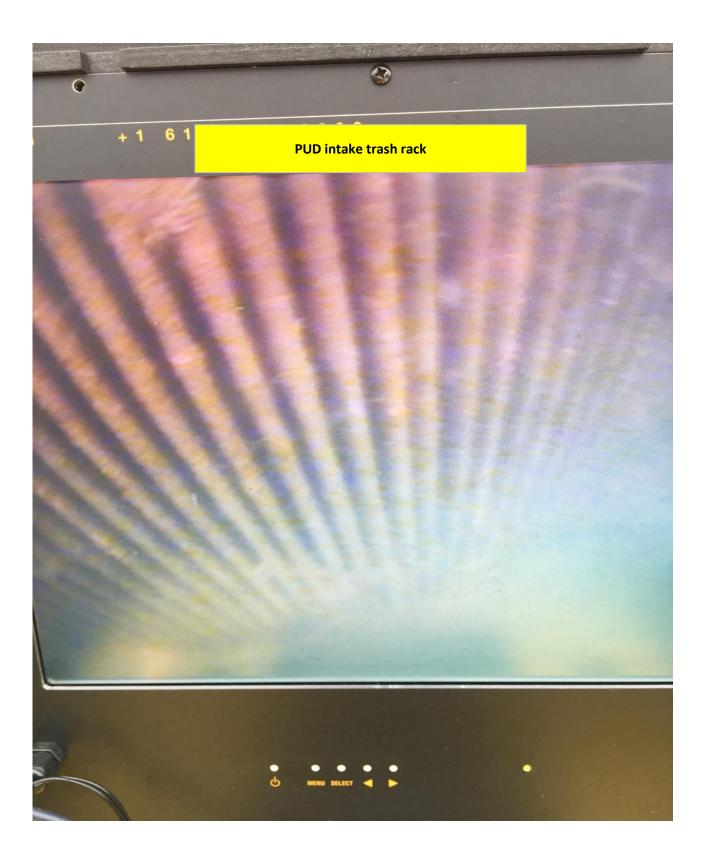
Yellow lines = current wires

Orange lines = down or missing wires

F=foraging, NF=non-foraging																	
Date	Observer		7	Gull		Cormorant		Caspian tern		Grebe		Pelican		Other		Total birds	Notes
Date	Observer	AM/PM	Zone	F	NF	F	NF	F	NF	F	NF	F	NF	F	NF	in zone	
			FB	0	2	0	0	0	0	0	0	0	0	0	0	2	
			PH1	0	0	0	2	0	0	0	0	0	0	0	0	2	
2/12	GJF	514	PH2	0	0	0	0	0	0	0	0	0	0	0	4	4	BAEA
/12	GJF	PM	SW1 SW2	0	0	0	0	0	0	0	0	0	0	0	9	0	COME
			SW2 SW3	0	0	0	14	0	0	0	0	0	0	0	0	9 14	COME
			SW4	0	0	0	0	0	0	0	0	0	0	0	0	0	
			FB	0	0	0	0	0	0	0	0	0	0	0	0	0	
			PH1	0	1	0	0	0	0	0	0	0	0	0	0	1	
		АМ	PH2	0	0	0	0	0	0	0	0	0	0	0	3	3	GBHE
2/13	GJF		SW1	0	0	0	0	0	0	0	0	0	0	0	0	0	
			SW2	0	0	0	0	0	0	0	0	0	0	0	0	0	
			SW3	0	0	0	4	0	0	0	0	0	0	0	0	4	
			SW4	0	0	0	0	0	0	0	0	0	0	0	0	0	
			FB	0	2	2	3	0	0	0	5 0	0	0	0	0	12 7	COME
			PH1 PH2	0	0	0	0	0	0	0	0	0	0	4	3	3	COME GBHE
/14	GJF	PM	SW1	0	0	0	0	0	0	0	0	0	0	1	0	1	COME
, 14	GJF		SW2	0	0	2	0	0	0	0	0	0	0	9	0	11	COME
			SW3	0	0	0	4	0	0	0	0	0	0	0	0	4	002
			SW4	0	0	0	0	0	0	0	0	0	0	0	0	0	
			FB	0	0	0	0	0	0	0	0	0	0	0	0	0	
			PH1	0	0	0	0	0	0	0	0	0	0	0	0	0	
			PH2	0	0	0	0	0	0	0	0	0	0	0	0	0	
2/15		AM	SW1	0	0	0	0	0	0	0	0	0	0	0	0	0	
			SW2	0	0	0	0	0	0	0	0	0	0	0	0	0	
			SW3 SW4	0	0	0	0	0	0	0	0	0	0	0	0	0	
			5004 FB	0	0	0	0	0	0	0	0	0	0	0	0	0	
		РМ	PH1	0	0	0	0	0	0	0	0	0	0	0	0	0	
	JWR		PH2	0	0	0	0	0	0	0	0	0	0	0	2	2	1 ea BAEA, GBHE
2/16				0	0	0											
			SW2	0	0	0	0	0	0	0	0	0	0	0	0	0	
			SW3	0	0	0	2	0	0	0	0	0	0	0	0	2	
			SW4	0	0	0	0	0	0	0	0	0	0	0	0	0	
2/17	JWR	AM	FB	0	0	0	0	0	0	0	0	0	0	0	0	0	
			PH1	0	0	0	0	0	0	0	0	0	0	0	0	0	
			PH2 SW1	0	0	0	0	0	0	0	0	0	0	0	2	2	1 ea BAEA, GBHE
			SW1 SW2	0	0	0	0	0	0	0	0	0	0	0	0	0	
			SW2 SW3	0	0	1	7	0	0	0	0	0	0	0	0	8	
			SW4	0	0	0	0	0	0	0	0	0	0	0	0	0	
			FB	0	0	0	0	0	0	0	0	0	0	0	0	0	
		РМ	PH1	0	0	0	2	0	0	0	0	0	0	0	0	2	
2/18			PH2	0	0	0	0	0	0	0	0	0	0	0	5	5	1 BAEA, 4 GBHE
	JWR		SW1	0	0	0	0	0	0	0	0	0	0	0	0	0	
			01110														
			SW2 SW3	0	0	0	0	0	0	0	0	0	0	0	0	0	

	The Dalles River/Water Temperatures								
35.5 r	Series1	Series2	O Series3	∆ Series4					
35.5									
35.0									









AWS 7' pipes entering AWS chamber west of junction pool