The Dalles Dam Fishway Status Report

8/12/2017

Inspection Period: 08/06/2017-08/12/2017

THE DALLES DAM



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

	Fis	hways are i	nspected twice	e daily plus one So	CADA inspec	tion			
The Dalles Dam	Inspections	Criteria		of Inspections:	19	Temperatu		73.3	°F
The Dailes Daili	Out of Criteria	Limit	Comments			Secchi:	5.0	feet	
			NORTH	I 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'	1.3						
Entrance weir N1	0	depth (≥ 8')	10.3						
Entrance weir N2	0	Closed							
PUD Intake differential	0	≤ 0.5'							
			EAST	FISHWAY					
Exit differential	0	≤ 0.5'							
Removable weirs 154-157	0			increments Work of	leaning circu	it boxes perf	ormed.		
Weir 158-159 differential	0	1.0' ± 0.1'	158 callibrated	and adjusted.					
Count station differential	0	≤ 0.3'	Picket leads ra	ked as needed. De	oris load light				
Weir crest depth	0	1.0' ± 0.1'							
Junction pool weir JP6	0	depth (≥ 7')	10.0						
East entrance differential	0	1.0' - 2.0'	1.4						
Entrance weir E1	0	No criteria							
Entrance weir E2	0	depth (≥ 8')	11.4						
Entrance weir E3	0	depth (≥ 8')	11.3						
Collection channel velocity	0	1.5 - 4 fps	2.58						
Transportation channel velocity	0	1.5 - 4 fps	2.32						
North channel velocity	0	1.5 - 4 fps	2.29						
South channel velocity	0	1.5 - 4 fps	2.98						
West entrance differential	0	1.0' - 2.0'	1.5						
Entrance weir W1	0	depth (≥ 8')	8.7						
Entrance weir W2	0	depth (≥ 8')	8.7						
Entrance weir W3	0	No criteria							
South entrance differential	0	1.0' - 2.0'	1.4						
Entrance weir S1	0	depth (≥ 8')	8.4						
Entrance weir S2	0	depth (≥ 8')	8.4						
	_		JUVENIL	E PASSAGE					
Sluicegate operation	0	Units 1, 8, 18							
Turbine trashrack drawdown	0		range: 0.1-0.8						
Spill volume/pattern	0	. ,	Ĭ						
Turbine Unit Priority	1	per FPP	Low flow						
Turbine 1% Efficiency	0	per FPP							

OTHER ISSUES:

Birds/Sea lions:

No sea lions observed this week. Overall bird numbers down from last week, but juvenile gull numbers increasing,

Work continues exploring better gull abatement options with recent PIT data from Miller Island gull colony.

Operations:

North and east fishladders in full operation.

Spillway open 40% river flow for fish passage through spillgates 1-8.

Sluiceway open with 6 gates (units 1, 8 and 18)

Current Outages;

T8 (MU15 & MU16) out for transformer failure. Transformer replacement 7/5/18.

Maintenance:

All fishway entrance gratings inspected by ROV on 8/8. All grating observed in good condition.

East powerhouse avian line grid to be removed due to electrical shock hazard from induced voltage. FPOM approved. Avian predation monitoring to continue.

East exit weir electrical panel FCQ7 partially installed. Engineering design continues before further installation. Starting CADD drawings.

PUD crane rake repainting beginning. Prep work and part dismantling underway.

Rebuilding spare entrance weir gearbox.

Removal of derelict fish lock weir gearboxes started.

Designing fish lock upper and lower bulkhead replacement with concrete for improved isolation and fishladder protection.

Planning crane pad for north ladder dewatering access. Awaiting cultural approval. Material pruchased.

Modifying sturgeon tank for improved fish salvage.

Other repair maintenance plans for upcoming fiscal years; 154 -157 rehab/weir wheel replace, diffuser valve overhaul (rehab and decommission).

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

All spillway items on Critical Infrastructure. Spillgate 9 on large cap list, projected for 2022.

Research/Construction/Contractors:

USDA completed avian hazing concluded July 31.

Temperature profiling study by District Aug and Sept postponed until next year.

Pikeminnow dam angling - 73 removed this week, 1530 through 8/13. All from west powerhouse tailrace.

AWS construction - Planning for season 2 schedule. Requesting extensions to work outside in water work period. Commissioning plan underway for 3/18.

CTUIR completed allotted number of lamprey trapped (600 fish) in 7 days. Trapping continues for Yakama (only 31 to go) and Nez Perce.

Lamprey minor mods - Rounded entrance weir cap parts for all entrances ordered. Tribal lamprey trap hoist design complete. Fab FY17 and install FY18.

Railroad track removal - Lower west powerhouse asphalt expected end of July. Tailrace deck start Nov nights (FPOM approved)

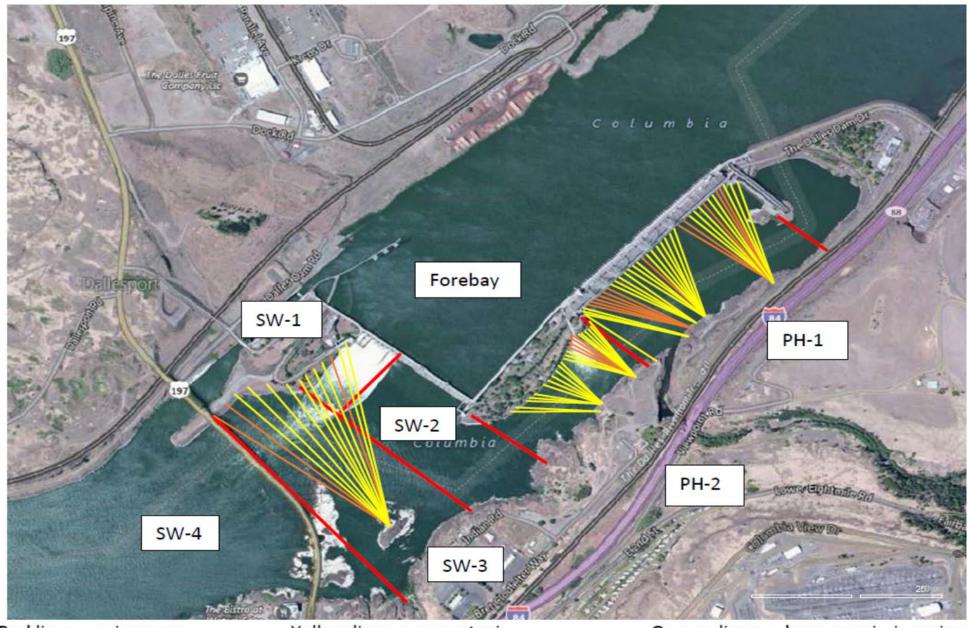
Fish unit breaker replace .- Manufacture this summer and install fall 2017. Switchover Jan 2018.

Fish unit rehab - Phase 1A report Jan 2018. Award 2020. Completion 2022. ROV inspection of fish unit discharge to AWS. Minimal concrete damage.

Transformer replacement - Install start May 2018.

Approved by: Ron Twiner

Operation Project Manager The Dalles Dam



Red lines = avian zones

Yellow lines = current wires

Orange lines = down or missing wires

						20	17 F	Pisci	vor	ous	Bird	Cou	unts				
								F	=foraging,	NF=non-fo	raging						
Date	observer	time	Zone	G	ull	Corn	norant	Caspia	an tern	Gr	ebe	Pel	ican	Ot	her	Total birds in	Notes
Date	Observer	tille	Zone	F	NF	F	NF	F	NF	F	NF	F	NF	F	NF	zone	Notes
			FB	0	0	0	141	0	0	0	2	0	0	0	0	143	
			PH1	0	0	0	1	0	0	0	0	0	0	0	0	1	
			PH2	0	0	0	0	0	0	0	0	0	0	0	0	0	
8/6	JWR	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	13	21	1	0	0	0	0	0	0	0	0	0	35	
			SW4	16	3	0	0	0	0	0	0	0	0	0	0	19	
			FB	0	4	5	36	0	0	0	2	0	0	0	0	47	
			PH1	0	0	0	12	0	0	0	0	0	0	0	0	12	
			PH2	0	0	0	0	0	0	0	0	0	0	0	0	0	
8/7	JWR	PM	SW1	0	2	0	0	0	0	0	0	0	0	0	0	2	
5, ,			SW2	0	0	1	0	0	0	0	0	0	0	0	0	1	
			SW3	5	5	1	0	0	0	0	0	0	0	0	0	11	
			SW4	2	3	0	5	0	0	0	0	0	0	0	4	14	COME
			5004	2	3	0	5	0	0	0	0	0	0	0	4	14	COME
8/8									ro	ν fishway <u>ε</u>	gratings						
			FB	0	0	0	16	0	0	0	0	0	0	0	0	16	
			FB PH1	0	0	0 2	16	0	0	0	0	0	0	0	0	16 6	
8/9	GJF	PM	PH1	0	0	2	4	0	0	0	0	0	0	0	0	6	
8/9	GJF	PM	PH1 PH2	0	0	2	4 0	0	0	0	0	0	0	0	0	6	
8/9	GJF	PM	PH1 PH2 SW1	0 0	0 0 0	2 0 0	4 0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	6 0 0	
8/9	GJF	PM	PH1 PH2 SW1 SW2	0 0 0 0	0 0 0 0	2 0 0 0	4 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	6 0 0	
8/9	GJF	РМ	PH1 PH2 SW1 SW2 SW3	0 0 0 0 2	0 0 0 0	2 0 0 0	4 0 0 0 0	0 0 0 0	6 0 0 0 2								
8/9	GJF	РМ	PH1 PH2 SW1 SW2 SW3 SW4	0 0 0 0 0 2	0 0 0 0 0	2 0 0 0 0	4 0 0 0 0 0 3	0 0 0 0 0	0 0 0 0	0 0 0 0 0	0 0 0 0	0 0 0 0 0	0 0 0 0	0 0 0 0 0	0 0 0 0 0	6 0 0 0 2 3	
8/9	GJF	РМ	PH1 PH2 SW1 SW2 SW3 SW4 FB	0 0 0 0 0 2 0	0 0 0 0 0 0	2 0 0 0 0 0 0	4 0 0 0 0 0 3 21	0 0 0 0 0 0	6 0 0 0 2 3 25								
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The Dalles East Adult Jack All Clipped Unclipped All Chinook All Coho Adult Coho Jack Coho Sockeye Pink **Date** Chum Lamprey Chinook Chinook Steelhead Steelhead Steelhead 8/6 8/7 8/8 8/9 8/10 8/11

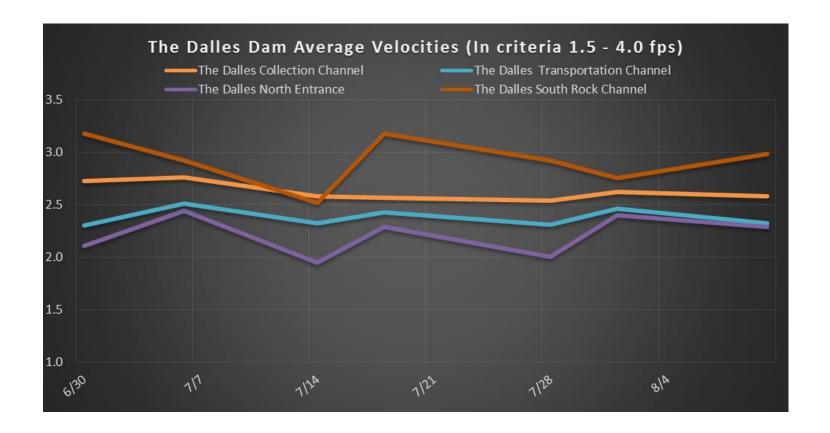
The Dalles North

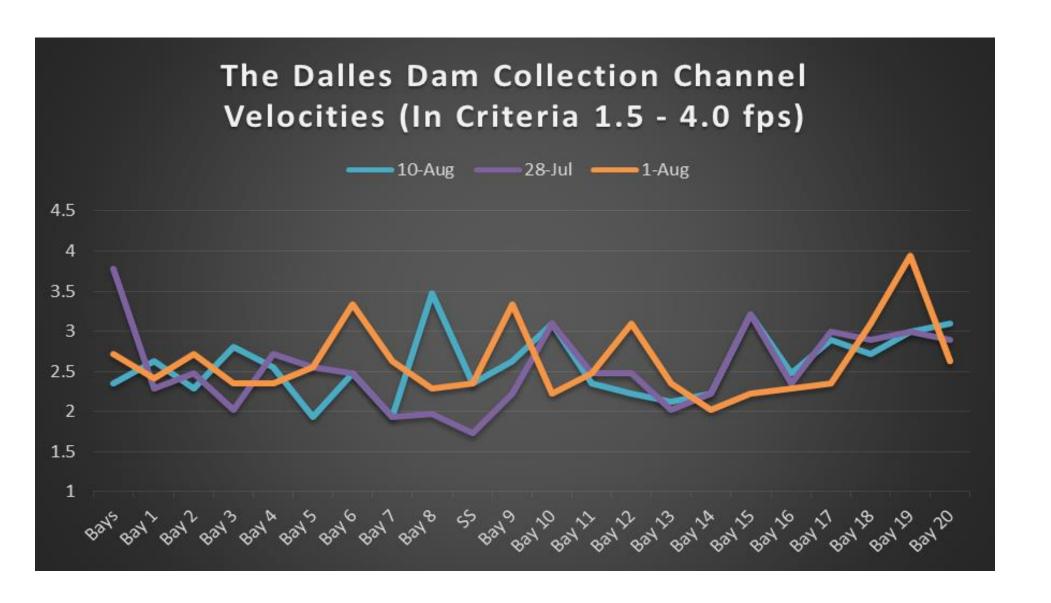
8/12

total

Date	All Chinook	Adult Chinook	Jack Chinook	All Steelhead	Clipped Steelhead	Unclipped Steelhead	All Coho	Adult Coho	Jack Coho	Sockeye	Chum	Pink	Lamprey
8/6	20	18	2	40	22	18	0	0	0	4	0	0	22
8/7	37	30	7	47	23	24	0	0	0	4	0	0	70
8/8	23	19	4	69	40	29	0	0	0	2	0	0	118
8/9	38	34	4	35	12	23	0	0	0	2	0	0	85
8/10	21	20	1	27	17	10	0	0	0	1	0	0	121
8/11	18	16	2	10	4	6	0	0	0	0	0	0	47
8/12	30	23	7	17	7	10	0	0	0	2	0	0	155
total	187	160	27	245	125	120	0	0	0	15	0	0	618
% North	20.2	21.3	15.5	32.8	32.3	33.4	0.0	0.0	0.0	31.9	0.0	0.0	37.1

http://www.fpc.org/environment/fcounts.asp?fr cdy=2017&fr cdm=8&fr cdd=6&to cdm=8&to cdd=12&subbtn=salmon&op=sdaily







			USGS:
Ī	Secchi:		Temperatures
8/6	5.0	Sun	72.5
8/7	5.0	Mon	72.9
8/8	5.0	Tue	73.3
8/9	5.0	Wed	73.5
8/10	5.0	Thurs	73.6
8/11	5.0	Fri	73.8
8/12	5.0	Sat	73.6
	5.0	AVG	73.3

http://www.nwd-wc.usace.army.mil/tmt/documents/ops/temp/201708.lcol.html

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

= Out of criteria

Spill link
http://www.nwdwc.usace.army.mil/dd/nwdp/project_hourly/webexec/rep?r=tda&ago=0

	North L	North Ladder East Ladder											24 hr avg			
	North E	ntrance		East Entrance				West Entrance				,	Z+III uvg			
Date:	Differential	N1 Depth	Differential	E1 Depth	E2 Depth	E3 Depth	JP 6	Differential	W1 Depth	W2 Depth	W3 Depth	Differential	S1 Depth	S2 Depth		
			1.2		11.8	11.8	9.9	1.2	9.2	9.2		1.4	8.2	8.2		
8/6	1.4	10.4	1.5		11.8	11.8	10.1	1.5	8.7	8.7		1.5	8.2	8.2	40.0	
	1.3	10.6	1.6		11.5	11.5	10.4	1.5	8.9	8.9		1.5	8.2	8.2		
			1.1		11.5	11.5	9.3	1.3	8.9	8.9		1.4	8.3	8.3		
8/7	1.4	10.4	1.6		10.8	10.8	9.5	1.6	8.4	8.4		1.4	8.2	8.2	40.2	
	1.3	10.0	1.6		10.8	10.8	9.5	1.6	8.4	8.4		1.4	8.2	8.2		
			1.3		11.6	11.6	9.2	1.4	8.6	8.6		1.3	8.3	8.3		
8/8		ROV					R	OV				ROV				
			1.7		11.0	11.0	10.2	1.5	8.7	8.7		1.3	8.7	8.7		
8/9	1.3	10.0	1.5		11.0	11.0	10.1	1.4	8.7	8.7		1.4	8.4	8.4	39.8	
	1.3	10.1	1.6		11.5	11.5	11.8	1.6	8.6	8.6		1.4	8.5	8.4		
			1.2		11.5	11.5	9.6	1.5	8.8	8.8		1.2	8.5	8.6		
8/10	1.4	10.1	1.2		11.5	11.4	9.3	1.5	8.6	8.6		1.3	8.4	8.4	40.2	
	1.3	10.3	1.6		11.5	11.5	11.8	1.4	8.6	8.6		1.4	8.5	8.4		
			1.4		11.5	11.5	10.2	1.5	8.7	8.7		1.4	8.4	8.4		
8/11	1.3	10.1	1.3		11.5	11.5	9.8	1.4	8.7	8.7		1.3	8.5	8.5	39.9	
	1.4	10.4	1.5		10.5	10.4	10.0	1.4	8.6	8.6		1.3	8.4	8.4		
			1.2		11.5	11.5	9.8	1.4	8.7	8.7		1.3	8.5	8.5		
8/12	1.2	10.4	1.2		11.4	11.4	9.4	1.4	8.7	8.7		1.2	8.6	8.6	40.0	
	1.3	10.3	1.4		11.5	11.5	10.2	1.5	8.7	8.7		1.3	8.5	8.5		
AVG:	1.3	10.3	1.4	NO CRITERIA	11.4	11.3	10.0	1.5	8.7	8.7	NO CRITERIA	1.4	8.4	8.4	40.0	

Fishways are inspected twice daily plus one SCADA inspection.

South Entrance



North Entrance

