The Dalles Dam Fishway Status Report ĨĦ

THE DALLES DAM

US Army Corps of Engineers Portland District

The Dalles Project-Fisheries P.O. Box 564

The Dalles, OR 97058-9998 Phone: 541-506-3800

4/17/22

Inspection Period 4/10-4/16 2022

The Dalles Dam	Inspections	Criteria	Total Number of Ins		Temperature: 47.		
The Dalles Dall	000	Limit		NPUD sampling bypass	RTS	Weekly Ave. Seccl	ni: 4.7
			NORTH FI	SHWAY			
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')		1.3			
Entrance Differential	0	1.0' - 2.0'		10.3			
N2	0	Closed					
PUD Intake differential	0	≤ 0.5'					
			EAST FIS	SHWAY			
Exit differential	0	≤ 0.5'					
Removable weirs 154-157	0	Per forebay					
Weir 158-159 differential	0	$1.1' \pm 0.1'$					
Count station differential	0	≤ 0.3'					
153 Weir crest depth	0	1.0' ± 0.1'					
Junction pool weir JP6	0	> 7.0'	Weekly average	11.2			
East entrance differential	0	1.0' - 2.0'	Weekly average	1.4			
Entrance weir E1	0	No criteria	Weekly average	3.2			
Entrance weir E2	0	depth (≥ 8')	Weekly average	12.6			
Entrance weir E3	0	depth (≥ 8')	Weekly average	12.6			
Collection channel velocity	0	1.5 - 4 fps	1.61 fps 4/16				
Transportation channel velocity	0	1.5 - 4 fps	2.87 fps 4/13				
North channel velocity	0	1.5 - 4 fps	3.15 fps 4/16				
South channel velocity	1	1.5 - 4 fps	4.64 fps 4/13				
West entrance differential	0	1.0' - 2.0'	Weekly average	1.4			
Entrance weir W1	0	depth (≥ 8')	Weekly average	9.8			
Entrance weir W2	0	depth (≥ 8')	Weekly average	9.9			
Entrance weir W3	0	No criteria	Weekly average	-2.1			
South entrance differential	0	1.0' - 2.0'	Weekly average	1.5			
Entrance weir S1	0	depth (≥ 8')	Weekly average	9.1			
Entrance weir S2	0	depth (≥ 8')	Weekly average	9.1			
			JUVENILE	BYPASS			
Sluicegate operation	0	Units 1, 8, 18					
Turbine trashrack drawdown	0	<1.5', biwkly	4/13/22 0k				
Spill volume/pattern	0	1 to 8	Per FPP				
Turbine Unit Priority	0	per FPP					
Gatewells	0	Weekly	4/12/22, small numbe	rs of juv. salmonid fish	observed	d. No mortality.	

Current Unit Outages

MU1 FOOS (Line 1) 1650 4/5/2022 Due to BPA PT damage (Big Eddy), RTS unknown MU2 FOOS (Line 1) 1650 4/5/2022 Due to 4/17/2022 Inspection Period 4/10-4/7 2022 4/10/2022 MU4 FOOS (Line 2) 1650 4/5/2022 Due to BPA PT damage (Big Eddy), RTS unknown 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 MU 17 OOS 3/28/2022 0630 – 7/15/2022 1700 for 6 yr. overhaul and top plate MU19 OOS 0630 6/27/2021 – 1700 10/27/2022 for Top Plate Cover Upgrade and blade linkage inspection

Maintenance

Permanent oil boom removed from east exit for repairs. Parts arriving, fabricating attachments. Planning install Apr28.

Fishway automation replacement entrances and exits in operation. Work resumes in June, pending funding.

Calibrations on east fishway entrances, Dara Doty working to fine tune. All in criteria.

Spillway assessment (MRER); Spillgates 1-9 rehab date estimate 2034. Includes replacement of spillbay 9 trunnion pin repair. Spillway crane top priority Fish unit rehab - Phase 1A on hold. Date to be determined. Planning operation with AWS backup water supply during construction.

AWS intake trashrack debris issue - No funding FY22.

East ladder window rear crowder brush drive not working.

Predators

~45 cormorant nesting pairs on BPA towers. Gull and DCCO actively feeding in tailwater now.

California gulls on project and shore hazing began 4/15.

Planning removal of bass/walleye/catfish from all dewaterings for gut sample analysis. Fish Passage Plan 2022 approved.

Research/Construction/Contractors

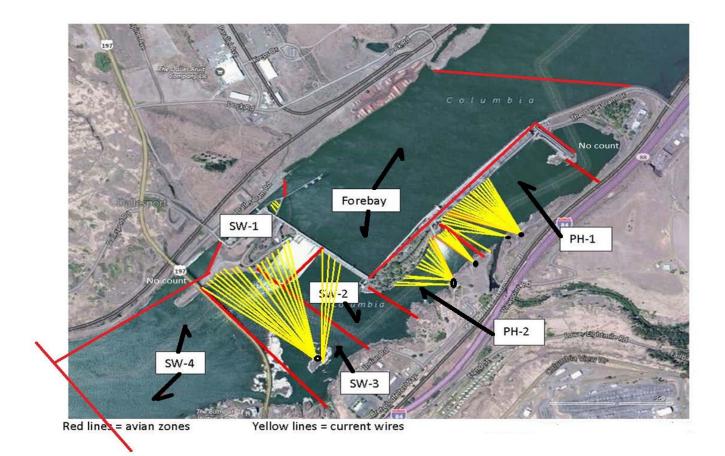
USGS river temperatures link <u>April°F</u> 4 peaks visual counting resumed April 1 USDA conducting combined projects (BON, TDA, JDA) avian hazing training 4/12-4/15 at The Dalles north Operations test results of new PSMFC switchgate/juvenile sampling facility at north ladder PUD details forthcoming Fish Accords Lamprey Passage plan ongoing at 60% DDR junction pool LPS PTAGIS fishladder data collection at in service count station continues.

Fishway Operations

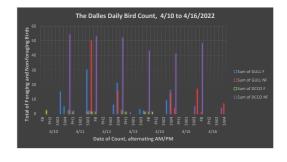
Ice Trash sluiceway endgate Open. Sluicegates open per FPP. Modifications to gate openings made due to recent unit outages-Big Eddy fire. East and North fishways in full service

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

Bird Count Zones, Avian Lines and Laser Deterrent Sites

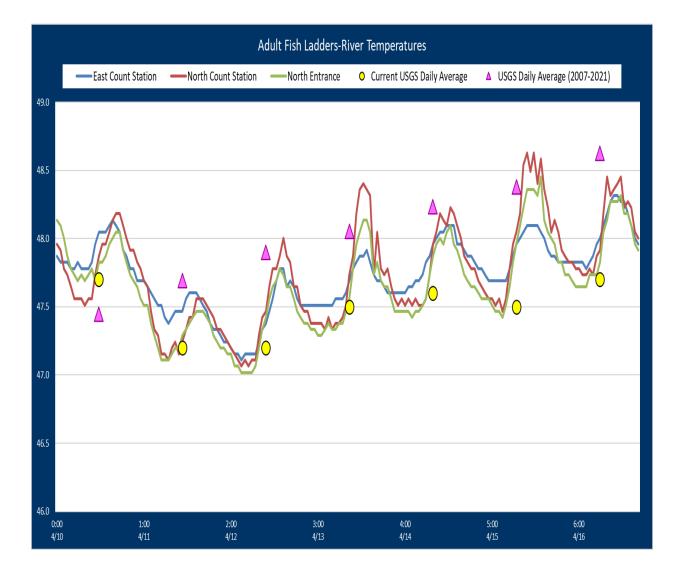






			Sum of DCCO F	
4/10	20	0	2	0
FB	0	0	0	0
PH1	0	0	2	0
PH2	0	0	0	0
SW1	0	0	0	0
SW2	0	0	0	0
SW3	15	0	0	0
SW4	5	0	0	0
44662	32	50	5	58
FB	0	0	2	54
PH1	Ó	Ó	1	2
PH2	0	0	0	0
SW1	ō	ō	ō	ō
SW2	0	0	0	0
SW3	30	0	1	2
SW4	2	50	1	õ
44663	27	16	1	53
44003 FB	0	0	1	53
PH1	0	0	0	0
PH2	0	0	0	0
SW1	0	0	0	0
SW1 SW2	0	0	0	0
SW2 SW3	6	0	0	C
SW3 SW4	21	16	0	
44664			4	0 53
44664 FB	5	0		
FB PH1	0	0	2	52
				C
PH2	0	0	0	1
SW1	0	0	0	C
SW2	0	0	0	C
SW3	3	Ó	Ó	ó
SW4	2	0	1	0
44665	25	14	2	43
FB	0	0	1	43
PH1	0	0	1	0
PH2	ő	ő	o	ő
SW1	0	0	0	c
SW2	ő	ő	ő	ő
SW3	9	ő	0	ő
SW4	16	14	ő	Č
44666	0	21	ő	46
FB	0	4	0	40
PH1	0	0	0	
PH2	0	0	0	0
SW1	0	0	0	0
SW2	0	0	0	0
SW2 SW3	0	0	0	5
SW3	0	17	0	0
44667	0	8	0	52
44667 FB	0	8	0	52 48
PH1	0	0	0	0
PH2	0	0	0	0
SW1	0	0	0	C
SW2	0	0	0	C
SW3	0	0	0	4
SW4	0	7	0	0
Frand Total	109	109	14	305

Date	Observer	Time	ZONE	GULL F	GULL NF	DCCO F	DCCO NF	TERN F	TERN NF	Grebe F	Grebe NF	AWPE F	AWPE NF	OtherF	OtherNF	Total	comn
4/10			FB	0	0	0	0	0	0	0	0	0	0	0	0	0	
4/10	T I		PH1	0	0	2	0	0	0	0	0	0	0	0	0	2	
4/10	1		PH2	0	0	0	0	0	0	0	0	0	0	0	0	0	
4/10	JWR	AM	SW1	0	0	0	0	0	0	0	0	0	0	0	0	0	
4/10	1		SW2	0	0	0	0	0	0	0	0	0	0	0	0	0	
4/10	1		SW3	15	0	0	0	0	0	0	0	0	0	0	0	15	
4/10	1		SW4	5	0	0	0	0	0	0	0	0	0	0	0	5	
4/11			FB	0	0	2	54	0	0	0	0	0	0	1	1	58	
4/11	1		PH1	0	0	1	2	0	0	0	0	0	0	0	0	3	
4/11	1		PH2	Ő	Ō	0	0	Ő	Ő	0	Ő	Ő	0	Ő	1	1	
4/11	JED	PM	SW1	0	0	0	0	0	0	0	0	0	0	0	0	0	
4/11	1 1		SW2	Ő	Ō	Ő	0	Ő	Ő	0	Ő	Ő	0	Ő	0	Ő	
4/11	1		SW3	30	0	1	2	0	0	0	0	0	0	0	0	33	
4/11	1 1		SW4	2	50	1	0	Ő	Ő	0	Ő	Ő	0	Ő	0	53	1
4/12	1 1		FB	0	0	1	53	0	0	0	0	0	0	0	0	54	1
4/12	1		PH1	0	0	0	0	0	0	0	0	0	0	0	0	0	1
4/12	1 1		PH2	0	0	Ő	0	Ő	Ő	0	Ő	Ő	0	Ő	0	Ő	1
4/12	JWR	AM	SW1	0	0	0	0	0	0	0	0	0	0	0	0	0	
4/12			SW2	0	0	Ő	0	Ő	Ő	0	Ő	Ő	0	Ő	0	Ő	-
4/12			SW3	6	0	0	0	0	0	0	0	0	0	0	0	6	
4/12			SW4	21	16	ő	0	ő	ŏ	Ő	ŏ	Ő	ŏ	ő	0	37	-
4/13			FB	0	0	2	52	0	0	0	0	0	0	1	0	55	-
4/13			PH1	0	0	1	0	0	0	0	0	0	0	0	0	1	-
4/13			PH2	0	0	0	1	0	0	0	0	0	0	1	0	2	-
4/13	JED	PM	SW1	0	0	0	0	0	0	0	0	0	0	0	0	0	-
4/13	020		SW2	0	0	0	0	0	0	0	0	0	0	0	0	0	
4/13			SW3	3	0	0	0	0	0	0	0	0	0	0	0	3	-
4/13			SW4	2	0	1	0	0	0	0	0	0	0	0	0	3	
4/14			FB	0	0	1	43	0	0	0	0	0	0	0	0	44	-
	+																
4/14	4		PH1	0	0	1	0	0	0	0	0	0	0	0	0	1	
4/14	JWR	AM	PH2	0	0	0	0	0	0	0	0	0	0	0	0	0	
4/14	JVVR	AM	SW1	0	0	0	0	0	0	0	0	0	0	0	0	0	
4/14	4		SW2	0	0	0	0	0	0	0	0	0	0	0	0	0	
4/14	4		SW3	9	0	0	0	0	0	0	0	0	0	0	0	9	
4/14	1		SW4	16	14	0	0	0	0	0	0	0	0	0	0	30	
4/15			FB	0	4	0	41	0	0	0	0	0	0	0	0	45	
4/15	1 1		PH1	0	0	0	0	0	0	0	0	0	0	0	0	0	
4/15	1 1		PH2	0	0	0	0	0	0	0	0	0	0	0	0	0	
4/15	MM	PM	SW1	0	0	0	0	0	0	0	0	0	0	0	0	0	
4/15	1 1		SW2	0	0	0	0	0	0	0	0	0	0	0	0	0	
4/15	1 1		SW3	0	0	0	5	0	0	0	0	0	0	0	0	5	
4/15			SW4	0	17	0	0	0	0	0	0	0	0	0	0	17	
4/16			FB	0	1	0	48	0	0	0	0	0	0	0	0	49	7
4/16	1 1		PH1	0	0	0	0	0	0	0	0	0	0	0	0	0	1
4/16	1 1		PH2	0	0	0	0	0	0	0	0	0	0	0	0	0	1
4/16	MM	AM	SW1	0	0	0	0	0	0	0	0	0	0	0	0	0	1
4/16	1		SW2	Ő	Ō	Ő	0	Ő	Ő	0	Ő	Ő	0	Ő	0	Ő	٦
4/16	1 1		SW3	0	0	0	4	0	0	0	0	0	0	0	0	4	1
4/16	1		SW4	0	7	0	0	0	0	0	0	0	0	ů.	0	7	-



Constitu		LICCORE
Secchi:		USGS°F
5.0	Sun	47.7
5.0	Mon	47.2
5.0	Tue	47.2
4.0	Wed	47.5
5.0	Thurs	47.6
4.5	Fri	47.5
4.5	Sat	47.7
4.7	median	47.5

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Reporting week data

_	North	Ladder		East Ladder											
Date:			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	
4/4.0															
4/10	1.4	9.9	1.5	2.0	12.2	12.4	10.0	1.4	9.5	9.7	-3.1	1.7	8.5	8.5	
	1.4	9.8	1.5	2.0	12.2	12.4	10.0	1.7	9.1	9.4	-3.4	1.6	8.5	8.5	
4/11	1.4	10.0	1.3	2.8	12.4	12.6	10.8	1.3	10.0	10.4	-2.4	1.4	9.3	9.3	
-1/11	1.4	10.0	1.3	3.6	12.4	12.6	10.8	1.3	10.0	10.4	-2.4	1.4	9.8	9.8	
	1.2	10.0	1.5	3.0	12.0	12.0	11.0	1.5	10.3	10.5	-1.0	1.5	5.0	5.0	
4/12	1.4	10.1	1.4	3.5	12.7	12.8	11.6	1.4	10.0	10.0	-1.6	1.4	9.1	9.1	
	1.3	10.2	1.3	4.1	13.2	13.2	12.1	1.4	10.2	10.2	-1.5	1.5	9.4	9.4	
4/13	1.4	10.1	1.3	4.0	13.2	13.3	12.0	1.3	10.4	10.4	-1.3	1.4	9.2	9.2	
	1.0	12.4	1.4	3.7	12.7	12.7	11.7	1.5	9.8	9.8	-1.7	1.5	9.3	9.1	
4/14	1.3	10.3	1.5	3.7	12.7	12.7	11.7	1.4	9.9	9.9	-1.5	1.5	9.3	9.3	
	1.3	10.3	1.4	3.8	12.8	12.8	11.8	1.5	9.9	9.9	-1.6	1.5	9.0	9.0	
4/15	1.2	10.4	1.4	2.9	12.5	12.5	10.9	1.4	9.6	9.6	-2.3	1.5	9.3	9,3	
-1,10	1.2	10.4	1.4	2.9	12.5	12.5	10.9	1.4	9.8	9.8	-2.5	1.5	9.5	9.5	
	1.2	10.4	1.0	2.3	12.1	12.2	10.5	1.0	5.5	3.3	-2.7	1.0	5.0	0.5	
4/16	1.2	10.4	1.4	2.8	12.4	12.5	10.8	1.4	9.6	9.6	-2.3	1.5	9.2	9.2	
	1.2	10.4	1.4	3.0	12.6	12.6	11.0	1.4	9.8	9.7	-2.2	1.5	9.2	9.2	
AVG:	1.3	10.3	1.4	3.2	12.6	12.7	11.2	1.4	9.8	9.9	-2.1	1.5	9.1	9.1	
	-					Fishw	ays are insp	ected twice d	aily.		-		found out	of criteria	