FISHWAY STATUS REPORT

Date:	12/1/2018		
Inspection Period:	11/25/2018	thru	12/1/2018



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US Army Corps of Engineers Portland District JD/WC Project-Fisheries P.O. Box 823 Rufus, Oregon 97050 Phone: 541-506-7860

All JD Fishways are inspected twice per day during fish passage season, Mar. 1 - Nov. 30.

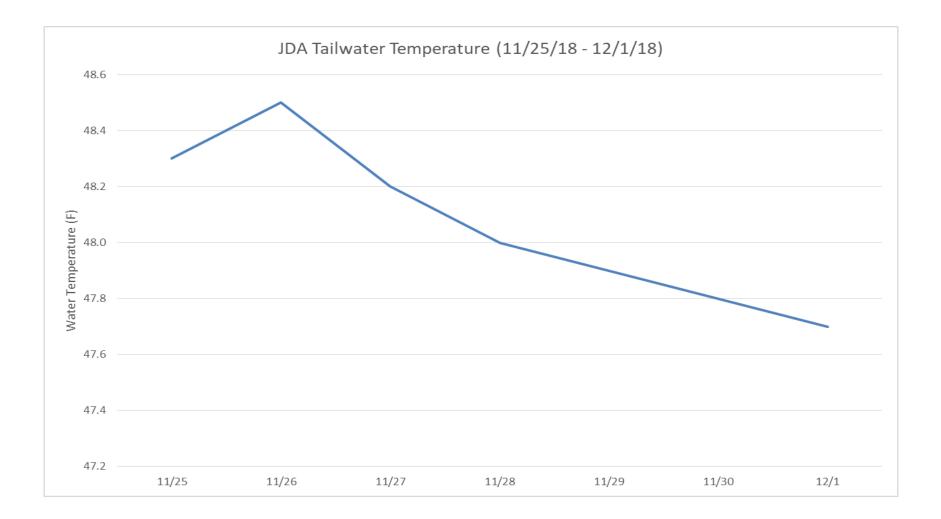
Frequent monitoring of the PLC displays in SMF Fisheries Office as necessary.

John Day Dam	Inspections	Criteria	Total Number of Inspections:	14	Temperature:	51 F
	Out of Criteria	Limit			Secchi:	6.0 Ft.
NORTH FISHWAY			In service with all 6 AWS pumps tota	al available.		
Exit differential	0	≤ 0.5'				
Exit Control weirs	0	High setting	High setting is normal for JDN			
Count station differential	0	≤ 0.3'				
Weir crest depth (DS gauge)	0	1.0' ± 0.1'				
Entrance differential	0	1.0' - 2.0'	AVG 1.5			
SOUTH FISHWAY	0		In service with two AWS turbines an	d two FOGs.		
Exit differential	0	≤ 0.5'				
Exit Control weirs	0	Mid setting	Mid setting is normal for JDS			
Count station differential	0	≤ 0.3'				
Weir crest depth (US gauge)	0	1.0' ± 0.1'				
South entrance differential	0	1.0' - 2.0'	AVG 1.5			
Entrance weir SE1	0	depth (≥ 8')	AVG 8.3			
Collection channel velocity	0	1.5 - 4 fps	AVG 2.69			
N. Entrance PH(Bay 19)differential	0	1.0' - 2.0'	AVG 1.7			
Entrance weir NE1	0	depth (≥ 8')	AVG 9.5			
Entrance weir NE2	0	depth (≥ 8')	AVG 9.5			
JUVENILE PASSAGE	0		In service since 2/28.			
Forebay/bypass conduit differential	0	4.0' - 5.0'	AVG 4.6			
Submersible traveling screens	0	visual inspect	Monthly STS inspection completed b	by the week	11/26. All STS wer	e undamaged and working.
Turbine trashrack drawdown	0	<1.5' <i>,</i> wkly	Monthly trashrack raking completed	by 11/29. S	ome wooden debri	is was removed.
Vert barrier screen drawdown	0	<1.5', wkly	Trashrack and VBS differentials are l	pelow the crit	terion of 1.5'.	
Spill volume	0	per FPP	Spill Season ended on 8/31. Bay 2 o	pen at 1.6K f	or adult attraction	to North Entrance on 9/1.
Spill pattern	0	per FPP	Bay 2 open at 1.6K during daylight l	nours for adu	It attraction to Nor	rth Entrance since 9/1.
Turbine Unit Priority	0	per FPP				
Turbine 1% Efficiency	0	per FPP				

Operation:

Operation.						
		-				nated 60 adult chinook, 15 steelhead, 2 lamprey, 2 sturgeon, 20 cats along with
					-	S outfall into the river. Thanks to Erin and Greg Kovalchuk for assistance!
						ed. The flow will be shut down the next week.
-		planning by J	D Electrical/ Por	tland Distr	ict Engineers is	underway. Implementation during this coming winter's outage season.
Research: No	-	•		•		
Fallbacks:	AVG:	0	MAX:	0	MIN:	0
Birds :						
Typical fall wa	ter birds feed	ling on the al	oundant juvenile	e shad. See	Avian Number	rs tab for details.
All 125 avian l	ines in place v	without any o	deficiencies.			
Operations:						
JD South Fishv	vay in service	, with two A	NS turbines and	two FOGs	since 2/28/18.	Awaiting special funding to overhaul turbines 1 & 2 (\$ 3 million each.)
JD North Ladd	er in service s	since 12/21/1	L7. 6 out of 6 A\	NS pumps	available again	since 4/18/18.
Spillway bay 2	was shut dov	wn at 1201 h	rs. on Dec. 1. N	o fish spill d	of any kind will	occur until April 2019.
MU Gatewell I	Drawdowns:	All MUs tra	ashrack differen	tials are 1.	5' or below acc	ording to twice a week inspections.
Maintenance:	:					
JD South AWS	turbine 1 is C	DOS, in poor	condition and u	rgently awa	aiting its overha	aul as soon as \$ 3 million becomes available (hopefully in a year or two ?)
Calibration: A	ll gauges/ ser	nsors are with	nin the criteria o	of 0.3' .		
Research:						
JDS and JDN A	dult PIT syste	ems are in sei	vice and detecti	ing PIT tags	since 3/1/18.	
WDFW NPM a	ingling conclu	ded 10/07/1	8 with a respec	table seasc	nal total of 3,0)89 NPM removed.
Uof I crew co	ntinues monit	toring the RT	Adult Lamprey	passage at	both JD Adult F	ishways.





JDA Collection Channel Velocity

Date	8-Nov-18
By:	MDL

Bay(s)	Time	Sec.	Velocity (f/s)
0-2	1:04	64	2.81
2 - 4	2:14	134	2.57
4 - 6	3:20	200	2.73
6 - 8	4:27	267	2.69
8 - 10	5:36	336	2.61
10 - 12	6:45	405	2.61
12 - 14	7:54	474	2.61
14 - 16	9:03	543	2.61
16 - 18	10:06	606	2.86
			2.68

Bay 19 TW:	160.5
Turbine 2-3:	68 RPM

FPP Criteria: 1.5–4.0 feet per second (2 fps optimum)

	Temp:		Secchi:		Fallbacks
Sun	52	ſ	6.0		NA
Mon	52		6.0		NA
Tue	52		6.0		NA
Wed	51		6.0		NA
Thur	50		6.0		NA
Fri	50		6.0		NA
Sat	49		6.0		NA
AVG:	51	AVG:	6.0	AVG/Sample	#DIV/0!
				ΜΑΧ	0
				MIN	0

	NE1	NE2	S.Ent	SE1	N.Ent	JBS Diff	Bay19
Sun	9.4	9.4	1.4	8.6	1.6	4.6	1.6
Sun	9.6	9.6	1.6	8.2	1.6	4.6	1.8
Mon	9.5	9.5	1.5	8.5	1.5	4.7	1.7
Mon	8.9	8.9	1.5	8.3	1.6	4.6	1.8
Tues	9.5	9.5	1.5	8.6	1.6	4.5	1.7
Tues	9.0	9.0	1.6	8.4	1.7	4.5	1.8
Wed	10.0	10.0	1.5	8.2	1.3	4.6	1.7
Wed	9.2	9.2	1.5	8.2	1.6	4.5	1.6
Thur	9.2	9.2	1.6	8.3	1.4	4.6	1.8
Thur	9.6	9.6	1.5	8.2	1.3	4.6	1.5
Fri	9.9	9.9	1.5	8.7	1.3	4.6	1.6
Fri	9.8	9.8	1.4	8.2	1.3	4.6	1.5
Sat	9.7	9.7	1.6	8.0	1.4	4.6	1.6
Sat	10.2	10.2	1.5	8.3	1.3	4.5	1.6
AVG:	9.5	9.5	1.5	8.3	1.5	4.6	1.7

JDA Bird Counts: <u>11/18/18</u> to <u>11/24/18</u>

NF(1): Non-Forage AM Survey NF(2): Non-Forage PM Survey

Date	Zone		G	ìulls			Cori	morant	t		Caspia	an tern			White	e Pelica	an		G	rebe		Total
		F(1)	F(2)	NF(1)	NF(2)	F(1)	F(2)	NF(1)	NF(2)	F(1)	F(2)	NF(1)	NF(2)	F(1)	F(2)	NF(1)	NF(2)	F(1)	F(2)	NF(1)	NF(2)	
18-Nov	PHFB	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	3	0	0	0	4
18-Nov	SWFB	0	0	69	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	69
18-Nov	PH1	0	8	0	0	5	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	19
18-Nov	PH2	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30
18-Nov	PH3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18-Nov	SW1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18-Nov	SW2	0	0	0	0	0	0	40	0	0	0	0	0	0	0	0	0	0	0	0	0	40
18-Nov		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Avg/Su	-	1	9	3	5	6	5	2	21		0	(0	(0	(0		2	()	162
19-Nov		0	0	0	12	0	0	0	0	0	0	0	0	0	0	0	0	0	5	0	0	17
19-Nov		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19-Nov		11	4	0	0	4	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	21
19-Nov		28	7	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	36
19-Nov		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19-Nov		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19-Nov		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19-Nov		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Avg/Su		2			5		1		0	-	0		0	_	0		0	-	3)	74
20-Nov		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20-Nov		0	0	42	52	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	94
20-Nov		19	18	0	0	7	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	49
20-Nov		35	19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	54
20-Nov		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20-Nov		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20-Nov 20-Nov		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Avg/Su		0	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0 197
21-Nov	-	0	0	0	0	0	0	10	3	0	0	0	0	0	0	0	0	0	0	0	0	137
21-Nov		0	0	248	112	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	360
21-NOV 21-Nov		22	25	248 0	0	5	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	55
21-NOV 21-Nov		8	38	0	0	2	5 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	48
21-NOV 21-Nov		0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	40 0
21-Nov	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21-Nov		0	0	0	0	0	0	14	31	0	0	0	0	0	0	0	0	0	0	0	0	45
21-Nov		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	ر ب ۱
	irvey	-	7	-	30		5	-	9		0	-								I V		521

JDA Bird Counts: <u>11/18/18</u> <u>to</u> <u>11/24/18</u>

NF(1): Non-Forage AM Survey NF(2): Non-Forage PM Survey

Date	Zone		Ģ	alls			Cori	morant	:		Caspia	n tern			White	e Pelica	in		G	rebe		Total
		F(1)	F(2)	NF(1)	NF(2)	F(1)	F(2)	NF(1)	NF(2)	F(1)	F(2)	NF(1)	NF(2)	F(1)	F(2)	NF(1)	NF(2)	F(1)	F(2)	NF(1)	NF(2)	
22-Nov	PHFB	0	0	0	0	0	0	42	0	0	0	0	0	0	0	0	0	0	0	0	0	42
22-Nov	SWFB	0	0	205	184	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	389
22-Nov	PH1	24	8	0	0	8	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	43
22-Nov	PH2	21	19	0	0	3	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	47
22-Nov	PH3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22-Nov	SW1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22-Nov	SW2	0	0	0	0	0	0	0	17	0	0	16	0	0	0	0	0	0	0	0	0	33
22-Nov	SW3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Avg/Su	urvey	3	6	19	95	9	Э	3	0		0	8	8	(0	()	(0	(0	554
23-Nov	PHFB	0	0	0	0	0	0	17	6	0	0	0	0	0	0	0	0	0	0	0	0	23
23-Nov	SWFB	0	0	209	188	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	397
23-Nov	PH1	21	11	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	37
23-Nov	PH2	18	8	0	0	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	29
23-Nov	PH3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23-Nov	SW1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23-Nov	SW2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23-Nov	SW3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Avg/Su	urvey	2	9	19	99	4	1	1	2		0	(0	(0	()	(0	(0	486
24-Nov	PHFB	0	0	8	13	0	0	39	0	0	0	0	0	0	0	0	0	0	0	17	0	77
24-Nov	SWFB	0	0	201	177	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	378
24-Nov	PH1	34	3	0	0	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	47
24-Nov	PH2	3	18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	21
24-Nov	PH3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24-Nov	SW1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24-Nov	SW2	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	4
24-Nov	SW3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Avg/Su	urvey	2	9	20	00	5	5	2	2		0	(0	(D	()	(0	9	9	527

Totals	Ċ	Gulls	Cor	morant	Caspia	in tern	White	e Pelican	G	Total	
	F	NF	F	NF	F	NF	F	NF	F	NF	
Weekly Total	460	1720	76	224	0	16	0	0	8	17	2521
Avg/Survey	33	123	5	16	0	1	0	0	1	1	180

