# FISHWAY STATUS REPORT

Date:	12/22/2018		
Inspection Period:	12/16/2018	thru	12/22/2018



JD/WC Project-Fisheries P.O. Box 823 Rufus, Oregon 97050 Phone: 541-506-7860

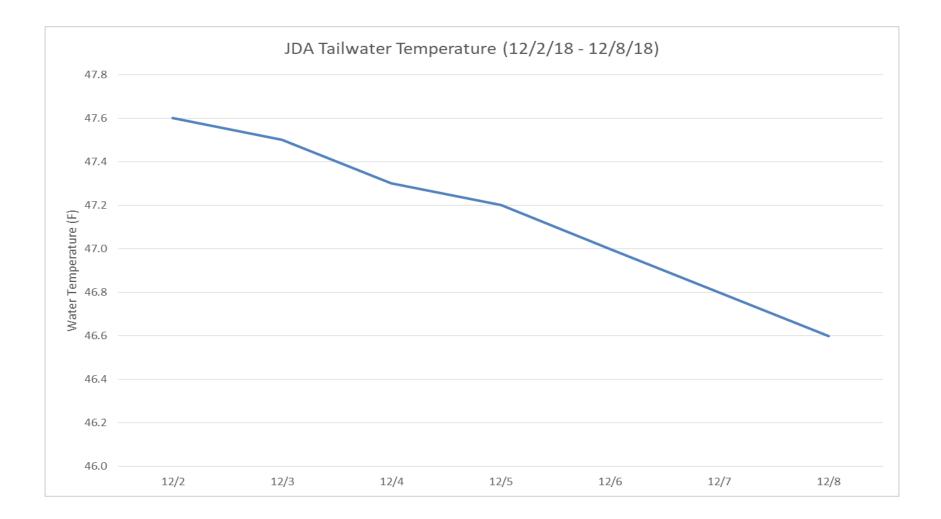
All JD Fishways are inspected once per day during winter maintenance, Dec. 1 - Feb. 28.

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

John Day Dam	Inspections	Criteria	Total Number of Inspections:	7	Temperature:	<b>45</b> F
	Out of Criteria	Limit			Secchi:	<b>6.0</b> Ft.
NORTH FISHWAY			OOS since 11/30. Winter maintenance	activities u	nderway. RTS in m	id-January 2019.
Exit differential	OOS	≤ 0.5'				
Exit Control weirs	OOS	High setting	High setting is normal for JDN			
Count station differential	OOS	≤ 0.3'				
Weir crest depth (DS gauge)	OOS	1.0' ± 0.1'				
Entrance differential	OOS	1.0' - 2.0'	AVG #DIV/0!			
SOUTH FISHWAY	0		In service with two AWS turbines and t	wo FOGs.	Planned dewatering	g in mid- January 2019.
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 1.4			
Entrance weir SE1	0	depth (≥ 8')	AVG 8.2			
Collection channel velocity	0	1.5 - 4 fps	AVG 2.69			
N. Entrance PH(Bay 19)differential	0	1.0' - 2.0'	AVG 1.6			
Entrance weir NE1	0	depth (≥ 8')	AVG 8.5			
Entrance weir NE2	0	depth (≥ 8')	AVG 8.5			
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	STS removal started on 12/16 after JBS	season en	ded on 12/15.	
Turbine trashrack drawdown	0	<1.5', wkly	Trashrack and VBS differentials are bel	ow the crit	erion of 1.5'.	
Vert barrier screen drawdown	0	<1.5', wkly	Trashrack and VBS differentials are bel	ow the crit	erion of 1.5'.	
Spill volume	0	per FPP	Bay 2 spill ended on 12/1. No fish spill	of any kind	d occurs until April 2	2019.
Spill pattern	0	per FPP	N/A			
Turbine Unit Priority	0	per FPP				
Turbine 1% Efficiency	0	per FPP				

				SIV	IOLT MONI	TORING FACILITY
Operation:						
		-				ated 60 adult chinook, 15 steelhead, 2 lamprey, 2 sturgeon, 20 cats along with
			•		•	outfall into the river. Thanks to Erin and Greg Kovalchuk for assistance!
						d. The flow will be shut down the next week.
Winterization Maintenance		ing along wi	ith the Auxiliary W	ater Supply	pipes and valv	ves completed by 12/10.
		hy ID Electri	cal/ Portland Distr	ct Engineer	s is underway	y. Estimated completion by the end of February 2019.
Sivil SCADA u	puate/mous	by JD Liectin		et Engineer	s is underway	
Fallbacks:	AVG:	0	MAX: 0	1	MIN:	0
Typical fall wa	iter birds feed	ing on the al	bundant juvenile s	nad. See Av	/ian Numbers	tab for details.
All 125 avian	lines in place v	vithout any o	deficiencies.			
<b>Operations:</b>						
JD North Fish	way OOS since	2 11/30 with	AWS pumps shut of	down after s	sunset. Its upp	per section was successfully dewatered on 12/3 PM. After a prolonged flushing
of the ladder	only 1 STH J ai	nd 3 Sturgeo	n were bagged an	d released in	nto tailrace in	good condition during the fish salvage operation. A few sturgeon and shad
found in the l	ower section v	vere pushed	into lower pool.			
JD North Low	er Ladder/ Ent	rance was d	ewatered to below	diffuser gr	atings' level or	n 12/6. 1 STH J and 8 A lamprey were bagged and released into tailrace in good
condition.						
JD South Fish	way in service,	, with two A\	WS turbines and tw	vo FOGs sin	ce 2/28/18. A	Awaiting special funding to overhaul turbines 1 & 2 ( \$ 3 million each.)
MU Gatewell	Drawdowns:	All MUs tra	ashrack differentia	ls are 1.5' o	r below accor	rding to twice a week inspections.
Maintenance	:					
JD North Adu	lt Fishway win	ter maintena	ance underway. Li	S permane	nt water supp	ly and other improvements contract underway.
ID South MM	5 turbine 1 is C	OS, in poor	condition and urge	ently awaitin	ng its overhau	l as soon as \$ 3 million becomes available (hopefully in a year or two ?)
JD SOUTH AW:	ll gauges / sen	sors are with	hin the criteria of (	.3' .		
Calibration: A	in gauges/ sen		init the criteria of c			
	in gauges/ sen					
Calibration: A Research:			rvice and detecting	; PIT tags sir	nce 3/1/18.	
Calibration: <i>A</i> Research: JDS and JDN <i>A</i>	dult PIT syste	ms are in ser		-		9 NPM removed.

#### MOYNAHAN, KEVIN PATRICK, 1393959157 MOYNAHAN, KEVIN PATRICK, 1393959157



# 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	45		6.0		NA
Mon	45		6.0		NA
Tue	45	[	6.0		NA
Wed	45	[	6.0		NA
Thur	45		6.0		NA
Fri	45		6.0		NA
Sat	45		6.0		NA
AVG:	45	AVG:	6.0	AVG/Sample	#DIV/0!
		-		MAX	0
				MIN	0

	NE1	NE2	S.Ent	SE1	N.Ent	JBS Diff	Bay19
Sun	8.6	8.6	1.2	8.8	005	4.7	1.6
Sun							
Mon	8.2	8.2	1.5	8.1	005	4.5	1.6
Mon							
Tues	8.4	8.4	1.4	8.5	005	4.5	1.7
Tues							
Wed	9.4	9.4	1.4	8.0	005	4.6	1.5
Wed							
Thur	8.4	8.4	1.6	8.0	005	4.6	1.7
Thur							
Fri	8.4	8.4	1.5	8.1	005	4.6	1.6
Fri							
Sat	8.3	8.3	1.5	8.1	005	4.6	1.5
Sat							
AVG:	8.5	8.5	1.4	8.2	#DIV/0!	4.6	1.6

### JDA Bird Counts: <u>12/16/18</u> to <u>12/22/18</u>

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

Date	Zone		Ģ	Gulls			Cori	morant			Caspia	an tern			White	e Pelica	n		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)	
16-Dec	PHFB	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	2	0	2	0	6
16-Dec	SWFB	0	0	111	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	111
16-Dec	PH1	3	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7
16-Dec	PH2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16-Dec	PH3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16-Dec	SW1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16-Dec		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16-Dec		0	0	0	0	0	0	44	0	0	0	0	0	0	0	0	0	0	0	0	0	44
Avg/Su	-		2	5	6	2	2	2	3		0	(	0	(	0	(	)	-	1		L	168
17-Dec		0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	2	0	2	0	6
17-Dec		0	0	555	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	555
17-Dec		10	0	0	0	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	18
17-Dec		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17-Dec		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17-Dec		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17-Dec		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17-Dec		0	0	0	0	0	0	55	0	0	0	0	0	0	0	0	0	0	0	0	0	55
Avg/Su			5		78		4		9		0	1	0		0		)	-	1	-	L	<mark>634</mark>
18-Dec		0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	7	0	8
18-Dec		0	0	235	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	235
18-Dec		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18-Dec		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18-Dec		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18-Dec		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18-Dec		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18-Dec		0	0	0	0	0	0	49	0	0	0	0	0	0	0	0	0	0	0	0	0	49
Avg/Su		1	0		18		0		5	r	0		0		0		)		0	4	1	292
19-Dec		0	0	0	0	0	0	24	0	0	0	0	0	0	0	0	0	1	0	0	0	25
19-Dec		0	0	44	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	44
19-Dec		4	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7
19-Dec		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19-Dec	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19-Dec		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19-Dec		0	0	0	0	0	0	9	0	0	0	0	0	0	0	0	0	0	0	0	0	9
19-Dec		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	2	2	2	2	1	.7		0	(	0	(	0	(	)		1	(	)	85

# JDA Bird Counts: <u>12/16/18</u> to <u>12/22/18</u>

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

Date	Zone		Ģ	Gulls			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)	
20-Dec	PHFB	0	0	0	0	0	0	23	0	0	0	0	0	0	0	0	0	3	0	0	0	26
20-Dec	SWFB	0	0	214	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	214
20-Dec	PH1	9	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11
20-Dec	PH2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20-Dec	PH3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20-Dec	SW1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20-Dec	SW2	0	0	0	0	0	0	14	0	0	0	0	0	0	0	0	0	0	0	0	0	14
20-Dec	SW3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Avg/Su	irvey	5	5	1(	07		1	1	.9		0	(	0	(	0	(	)		2	(	0	265
21-Dec	PHFB	0	0	64	0	0	0	24	0	0	0	0	0	0	0	0	0	0	0	4	0	92
21-Dec	SWFB	0	0	104	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	104
21-Dec	PH1	12	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15
21-Dec	PH2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21-Dec	PH3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21-Dec	SW1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21-Dec	SW2	0	0	0	0	0	0	13	0	0	0	0	0	0	0	0	0	0	0	0	0	13
21-Dec	SW3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Avg/Su	irvey	6	5	8	4		2	1	.9		0	(	0	(	0	(	)	(	0		2	224
22-Dec	PHFB	0	0	0	0	0	0	31	0	0	0	0	0	0	0	0	0	2	0	0	0	33
22-Dec	SWFB	0	0	148	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	148
22-Dec	PH1	16	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	21
22-Dec	PH2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22-Dec	PH3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22-Dec	SW1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22-Dec	-	0	0	0	0	0	0	12	0	0	0	0	0	0	0	0	0	0	0	0	0	12
22-Dec	SW3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Avg/Su	irvey	8	3	7	4	1	3	2	2		0	(	0	(	0	(	0		1	(	D	214

Totals	Ċ	Gulls Cormo			Caspia	an tern	White	e Pelican	G	Total	
	F	NF	F	NF	F	NF	F	NF	F	NF	
Weekly Total	54	1475	25	303	0	0	0	0	10	15	1882
Avg/Survey	4	105	2	22	0	0	0	0	1	1	134

