### FISHWAY STATUS REPORT

 Date:
 2/23/2020

 Inspection Period:
 2/17/2020
 thru
 2/23/2020



JOHN DAY DAM 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. Additional and frequent monitoring of the PLC displays in SMF Fisheries Office as necessary.

John Day Dam	Inspection	Criteria	Total Num	ber of Inspe	ctions:	6	Temperature:		<b>40</b> F
	000	Limit					Secchi:	<b>1.1</b> Ft.	
NORTH FISHWAY			NFW rts on	1/23					
Exit differential	0	≤ 0.5'							
Exit Control weirs	0	High setting							
Count station differential	0	≤ 0.3'							
Weir crest depth (DS gauge)	0	1.0' ± 0.1'							
Entrance differential	0	1.0' - 2.0'	AVG	1.6					
SOUTH FISHWAY			oos for win	ter mainten	ance on 24 JAN				
Exit differential	005	≤ 0.5'							
Exit Control weirs	OOS	Mid setting	Mid setting	; is normal fo	or JDS				
Count station differential	OOS	≤ 0.3'							
Weir crest depth (US gauge)	OOS	1.0' ± 0.1'							
South entrance differential	OOS	1.0' - 2.0'	AVG	#DIV/0!					
Entrance weir SE1	OOS	depth (≥ 8')	AVG	#DIV/0!					
Collection channel velocity	OOS	1.5 - 4 fps	AVG	2.68					
N. Entrance PH(Bay 19)differential	OOS	1.0' - 2.0'	AVG	#DIV/0!					
Entrance weir NE1	OOS	depth (≥ 8')	AVG	#DIV/0!					
Entrance weir NE2	OOS	depth (≥ 8')	AVG	#DIV/0!					
JUVENILE PASSAGE			Screens pu	lled on all ur	nits since early Ja	nuary 2020.			
Forebay/bypass conduit differential	005	4.0' - 5.0'	AVG	4.6	out of service a	as of 01-08-2020			
Submersible traveling screens	0	visual inspect							
Turbine trashrack drawdown	0	<1.5', wkly							
Vert barrier screen drawdown	0	<1.5', wkly							
Spill volume	0	per FPP	All spillway	gates on se	al since 11/29 af	er sunset.			
Spill pattern	0	per FPP							
Turbine Unit Priority	0	per FPP							
Turbine 1% Efficiency	0	per FPP							

#### SMOLT MONITORING FACILITY

**Operation**:

OOS since 12/5/19. Planned RTS 4/1/2020.

#### Maintenance:

All AWS pipes winterized since early December 2019. Winter maintenance of SMF hardware underway.

SMF SCADA update underway and is to be completed by 12 March 2020. JD Electricians are bench building the new control pannels to be installed in February. Portland District's Electrical Engineers will be resposible for loading of new software and testing to assure all components are working properly.

#### **ADULT FISHWAYS & TW AVIAN GRID**

#### Birds:

Winter birds only without much impact on JD fish passage. See Bird Count tab for details.

All 125 avian lines in place without any deficiencies.

#### **Operations:**

JD South Adult Fishway was taken oos for Winter maintenance on 24 January.

JD North Adult Fishway RTS on 01/23/20. Dewatering pump 7 was re-installed with brand new components which will make the future dewaterings of lower

fishway easier and less costly. JD Maintenance continue repairs of AWS fish pump 4. It's rts is unknown due to its serious issues.

#### JBS was dewatered on 9 Jan for Winter maintenance and scada upgrade

MU Gatewell Drawdown All MUs trashrack differentials are 1.5' or below according to twice a week inspections.

#### Maintenance:

JD South Fishway oos on 24 Jan. The thrust bearing on turbine 3 has been replaced and the turbine is ready to return to service.

Joint repair work on the SFL exit control section is ongoing.

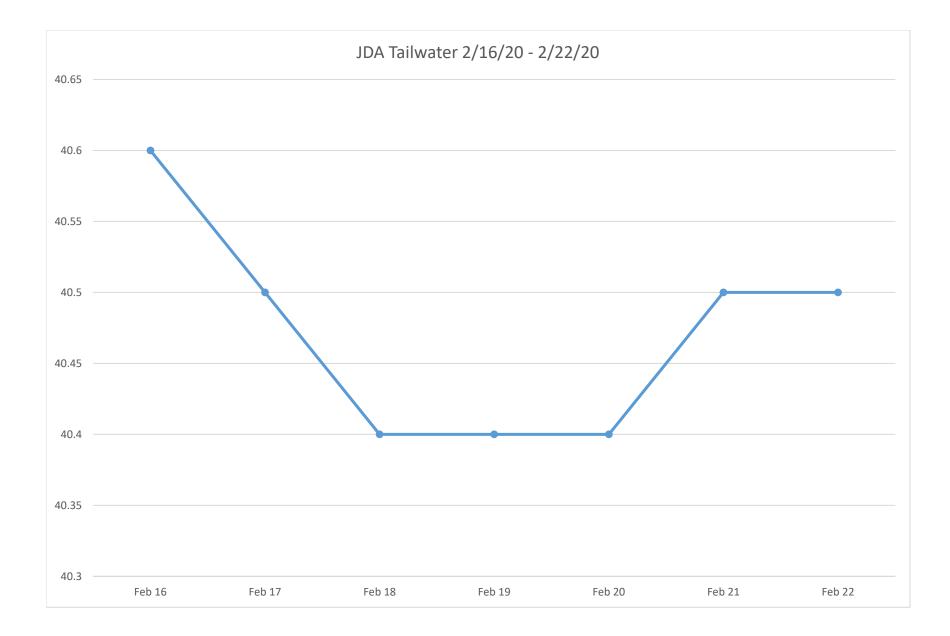
JD North Fishway returned to service on 1/23. Pump 3 has returned to service, pump 4 has been pulled for maintenance.

NFL LPS water supply pumps were pulled and inspected. No defencies where found and the supply pumps where reinstalled. Calibration: All gauges/ sensors are within the criteria of 0.3'.

#### Research:

None at this time.

Approved by: Ron Twiner, Acting OPM



# JDA Collection Channel Velocity

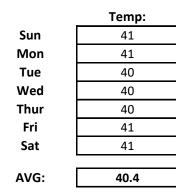
Date	10-Jan-20
By:	LR

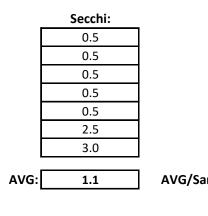
Bay(s)	Time	Sec.	Velocity (f/s)
0-2	1:04	64	2.81
2 - 4	2:11	131	2.69
4 - 6	3:16	196	2.77
6 - 8	4:22	262	2.73
8 - 10	5:27	327	2.77
10 - 12	6:33	393	2.73
12 - 14	7:50	470	2.34
14 - 16	9:12	552	2.20
16 - 18	10:11	611	3.05
			2.68

Bay 19 TW	Level	160.9
Turbine 1	RPM	68
Turbine 2	RPM	68
Turbine 3	RPM	OOS

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

## John Day Weekly Averages





	NA
	NA
ample	#DIV/0!
MAX	0

MIN

Fallbacks

0

	NE1	NE2	S.Ent	SE1	N.Ent	JBS Diff	Bay19
Sun	005	OOS	OOS	OOS	1.5	OOS	OOS
Sun							
Mon	005	OOS	OOS	OOS		OOS	OOS
Mon							
Tues	005	OOS	OOS	005	1.6	<b>0</b> 05	<b>00</b> S
Tues							
Wed	005	OOS	OOS	OOS	1.5	OOS	OOS
Wed							
Thur	005	OOS	OOS	OOS	1.6	OOS	<b>0</b> 05
Thur							
Fri	005	OOS	OOS	OOS	1.7	OOS	OOS
Fri							
Sat	005	OOS	OOS	OOS	1.5	OOS	OOS
Sat							
AVG:	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	1.6	#DIV/0!	#DIV/0!

### JDA Bird Counts: <u>2/16/20</u> to <u>2/22/20</u>

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

Date	Zone		G	ulls			Corr	morant	:		Caspia	an 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)	
16-Feb	PHFB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16-Feb	SWFB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16-Feb	PH1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16-Feb		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16-Feb		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16-Feb	SW1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16-Feb	SW2	0	0	0	0	0	0	19	0	0	0	0	0	0	0	0	0	0	0	0	0	19
16-Feb		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	(	)	1	0		0		0	(	0	(	0	(	0		0	19
17-Feb		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17-Feb		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17-Feb		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17-Feb		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17-Feb		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17-Feb		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17-Feb		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17-Feb		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Avg/Su	-	0	r		0		)		0		0		0		0		0	1	0		0	0
18-Feb		0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
18-Feb		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18-Feb		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18-Feb		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18-Feb		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18-Feb		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18-Feb		0	0	0	0	0	0	12	0	0	0	0	0	0	0	0	0	0	0	0	0	12
18-Feb		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Avg/Su		0			)	-	1	-	6		0		0		0		)		0		0	13
19-Feb		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19-Feb		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19-Feb		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19-Feb		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19-Feb		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19-Feb		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19-Feb		0	0	0	0	0	0	14	0	0	0	0	0	0	0	0	0	0	0	0	0	14
19-Feb		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Avg/Su	urvey	0		(	D	(	J		7		0		0	(	0	(	D	(	0		0	14

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Date	Zone		G	ulls			Cori	morant			Caspia	n 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)	
20-Feb	PHFB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20-Feb	SWFB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20-Feb	PH1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20-Feb	PH2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20-Feb	PH3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20-Feb	SW1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20-Feb	SW2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20-Feb	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	0	)	(	)	(	0	(	)		0	(	0	(	0	(	0	(	0	(	0	0
21-Feb	PHFB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21-Feb	SWFB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21-Feb	PH1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21-Feb	PH2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21-Feb	PH3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21-Feb	SW1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21-Feb	SW2	0	0	0	0	0	0	17	0	0	0	0	0	0	0	0	0	0	0	0	0	17
21-Feb		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Avg/Su	urvey	0		(	)	. (	0	9	)		0	. (	0	. (	0	(	0	. (	0	(	0	17
22-Feb	PHFB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22-Feb	SWFB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22-Feb	PH1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22-Feb	PH2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22-Feb	PH3	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1
22-Feb	SW1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22-Feb	SW2	0	0	0	0	0	0	22	0	0	0	0	0	0	0	0	0	0	0	0	0	22
22-Feb	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	0		(	)	. (	0	1	1	· -	0	(	D		1	(	D		0	(	D	23

Totals	G	ulls	Cor	morant	Caspia	in tern	White	e Pelican	G	Total	
	F	NF	F	NF	F	NF	F	NF	F	NF	
Weekly Total	0	0	1	84	0	0	1	0	0	0	86
Avg/Survey	0	0	0	6	0	0	0	0	0	0	6

