FISHWAY STATUS REPORT

Date: 4/18/2020

Inspection Period: 4/12/2020 thru 4/18/2020

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 Ins	pections:	14	Temperature:		49 F
	ООС	Limit					Secchi:	5.5 Ft.	
NORTH FISHWAY			NFW rts or	ı 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			SFW rts on	2/28					
Exit differential	0	≤ 0.5′							
Exit Control weirs	0	Mid setting	Mid setting	g is norma	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	8.5					
Collection channel velocity	0	1.5 - 4 fps	AVG	2.60					
N. Entrance PH(Bay 19)differential	0	1.0' - 2.0'	AVG	1.7					
Entrance weir NE1	0	depth (≥ 8')	AVG	8.4					
Entrance weir NE2	0	depth (≥ 8')	AVG	8.4					
JUVENILE PASSAGE									
Forebay/bypass conduit differential	0	4.0' - 5.0'	AVG	4.6	JBS rts 3/9/20				
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	seal since 11/29 at	ter sunset.			
Spill pattern	0	per FPP							
Turbine Unit Priority	0	per FPP							
Turbine 1% Efficiency	0	per FPP							

SMOLT MONITORING FACILITY

Operation:

RTS on 03/24/20. Condition sampling on 4/1/2020.

Maintenance:

All winter maintenance activies are completed for this winter maintenance period.

SMF SCADA update completed 17 March 2020. JD Electricians are working on SCADA programming and controls.

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 returned to service on 9 March.

Maintenance:

JD South Fishway rts on 27 Feb. 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 is completed.

JD North Fishway's pump 4 has been pulled for maintenance. Pump 1 breaker issue was resolved and is available.

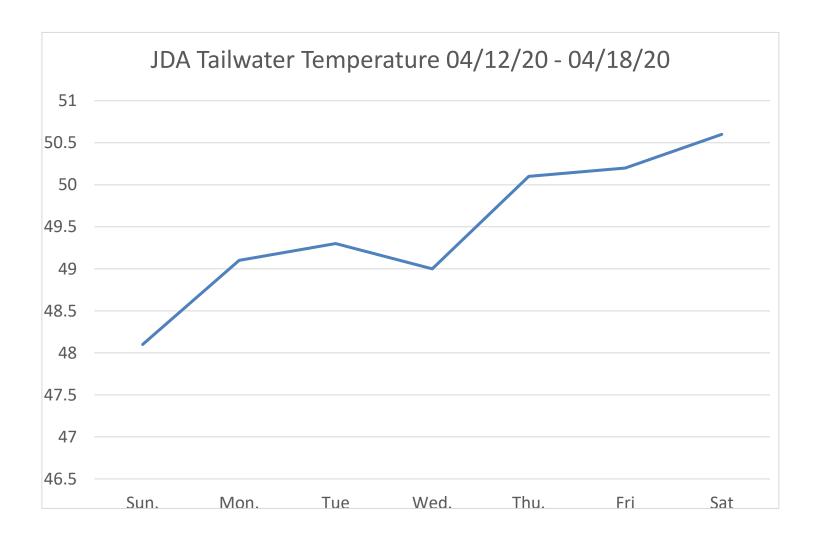
NFL LPS water supply pumps were pulled and inspected. No defencies where found and the supply pumps where reinstalled.

Calibration: All gauges/ sensors are within the criteria of 0.3'.

Research:

Critfc genetics study at SMF

Approved by: Ron Twiner, Acting OPM



JDA Collection Channel Velocity

Date	17-Apr-20
By:	KRM

Bay(s)	Time	Sec.	Velocity (f/s)
0-2	1:08	68	2.65
2 - 4	2:20	140	2.50
4 - 6	3:30	210	2.57
6 - 8	4:39	279	2.61
8 - 10	5:43	343	2.81
10 - 12	6:51	411	2.65
12 - 14	8:02	482	2.54
14 - 16	9:14	554	2.50
16 - 18	10:23	623	2.61
			2.60

 Bay 19 TW
 Level
 160.0

 Turbine 1
 RPM
 0

 Turbine 2
 RPM
 68

 Turbine 3
 RPM
 68

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

John Day Weekly Averages

	Temp:
Sun	48
Mon	49
Tue	49
Wed	49
Thur	50
Fri	50
Sat	51

AVG:

49.5	
51	
50	
50	
49	
49	
49	
48	

	5.5
AVG:	5.5
-	

Secchi:		Fallbacks
5.5	1	NA
5.5		3
5.5		NA
5.5		1
5.5		NA
5.5		2
5.5		NA
·-		

AVG/Sample	2
MAX	3
MIN	1

	NE1	NE2	S.Ent	SE1	N.Ent	JBS Diff	Bay19
Sun	8.4	8.4	1.4	8.2	1.4	4.5	1.9
Sun	8.1	8.1	1.4	8.2	1.7	4.6	1.9
Mon	8.2	8.2	1.4	8.2	1.5	4.6	1.9
Mon	8.0	8.0	1.4	8.2	1.7	4.5	1.9
Tues	8.5	8.5	1.3	8.8	1.4	4.5	1.6
Tues	8.5	8.5	1.4	8.1	1.5	4.5	1.8
Wed	8.0	8.0	1.3	8.5	1.5	4.6	1.7
Wed	8.0	8.0	1.3	8.7	1.5	4.5	1.9
Thur	8.4	8.4	1.3	9.0	1.5	4.6	1.9
Thur	8.5	8.5	1.4	8.6	1.7	4.5	1.9
Fri	9.1	9.1	1.5	8.5	1.5	4.6	1.6
Fri	8.6	8.6	1.4	8.3	1.7	4.6	1.2
Sat	8.9	8.9	1.2	8.6	1.7	4.6	1.5
Sat	9.0	9.0	1.3	8.4	1.5	4.7	1.6
AVG:	8.4	8.4	1.4	8.5	1.6	4.6	1.7

JDA Bird Counts: <u>4/12/20</u> to <u>4/18/20</u>

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

Date	Zone		G	ulls			Corr	norant			Caspia	n tern			White	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)	
12-Apr	PHFB	0	1	0	0	0	0	16	6	0	0	0	0	0	0	0	0	23	17	0	0	63
12-Apr	SWFB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12-Apr	PH1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12-Apr	PH2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12-Apr	PH3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12-Apr	SW1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12-Apr	SW2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12-Apr		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Avg/Su		1			0)		1		0		0)		0		20)	63
13-Apr		0	0	0	0	0	0	19	12	0	0	0	0	0	0	0	0	22	19	0	0	72
13-Apr		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13-Apr		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13-Apr		3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
13-Apr		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13-Apr		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13-Apr	SW2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13-Apr		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Avg/Su		2			0)		6		0		0)		0		1)	75
14-Apr		0	0	0	0	0	0	10	0	0	0	0	0	0	0	0	0	20	21	0	0	51
14-Apr		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14-Apr		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14-Apr		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14-Apr		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14-Apr		5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
14-Apr		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14-Apr		0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
Avg/Su		4			0)		-	_	0		0)		0		1)	59
15-Apr		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	21	11	0	0	32
15-Apr		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15-Apr		0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
15-Apr		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15-Apr		0	2	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	3
15-Apr		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15-Apr		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15-Apr	SW3	5	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11

Avg/Survey 7 0 0 1 0 0 1 0 16 0 47

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Date	Zone		G	ulls			Cori	morant			Caspia	n tern			White	e Pelica	ın		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-Apr	PHFB	0	0	0	0	0	0	17	11	0	0	0	0	0	0	0	0	24	22	0	0	74
16-Apr	SWFB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16-Apr	PH1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
16-Apr	PH2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
16-Apr	PH3	4	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7
16-Apr	SW1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16-Apr	SW2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16-Apr	SW3	2	4	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	8
Avg/Su	irvey	8			0	()	1	4		0	()		L	()	2	.3	()	92
17-Apr	PHFB	0	0	0	0	0	0	20	5	0	0	0	0	0	0	0	0	28	25	0	0	78
17-Apr	SWFB	0	0	0	0	0	0	0	10	0	0	0	0	0	0	0	0	0	0	0	0	10
17-Apr	PH1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17-Apr	PH2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17-Apr	PH3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17-Apr	SW1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1
17-Apr	SW2	0	2	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	6
17-Apr	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	1			0	()	1	8		0	()		3	()	2	7	()	95
18-Apr	PHFB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	40	30	70
18-Apr	SWFB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18-Apr	PH1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18-Apr	PH2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18-Apr	PH3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18-Apr	SW1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18-Apr	SW2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18-Apr		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Avg/Su	ırvey	0			0	()	()		0)	()	()	(0	3	5	70

Totals	G	ulls	Corı	morant	Caspia	ın tern	White	e Pelican	G	Total	
	F	NF	F	NF	F	NF	F	NF	F	NF	
Weekly Total	43	0	0	127	0	0	8	0	253	70	501
Avg/Survey	3	0	0	9	0	0	1	0	18	5	36

