FISHWAY STATUS REPORT

 Date:
 5/11/2019

 Inspection Period:
 5/5/2019
 thru
 5/11/2019



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

John Day Dam	Inspection	Criteria	Total Number of Inspections:	14	Temperature:	54 F
	000	Limit			Secchi:	3.4 Ft.
NORTH FISHWAY						
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		Turbine 3 oos. 2 turbine operation as	of 1200 o	n 25 April.	
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'	Set to Shad setting to provide more fl	ow to SE1		
South entrance differential	0	1.0' - 2.0'	AVG 1.5			
Entrance weir SE1	0	depth (≥ 8')	AVG 9.7			
Collection channel velocity	0	1.5 - 4 fps	AVG 3.08			
N. Entrance PH(Bay 19)differential	3	1.0' - 2.0'	AVG 1.8			
Entrance weir NE1	0	depth (≥ 8')	AVG 10.7			
Entrance weir NE2	0	depth (≥ 8')	AVG 9.2			
JUVENILE PASSAGE	0					
Forebay/bypass conduit differential	0	4.0' - 5.0'	AVG 4.6			
Submersible traveling screens	0	visual inspect				
Turbine trashrack drawdown	0	<1.5', wkly	N/A			
Vert barrier screen drawdown	0	<1.5', wkly	N/A			
Spill volume	0	per FPP	Spill season started 10 April			
Spill pattern	0	per FPP	None			
Turbine Unit Priority	0	per FPP				
Turbine 1% Efficiency	0	per FPP				

SMOLT MONITORING FACILITY

Operation:

SMOLT MONITORING FACILITY began sampling on 3/13 at 1400. A broken pipe flange that supplies flume and rotating gate water was cracked preventing start up on 3/11.

Maintenance:

SMF SCADA update by JD Electrical/ Portland District's engineers is underway but its completion is delayed by one year to February 2020. Due to complexity of electronic components and incomplete as-builts which are pending at this time.

Research:

CRITFC genetic samples where collected by PSMFC.

ADULT FISHWAYS & TW AVIAN GRID

Birds:

USDA Bird Hazing began on 15 April. 20 Pelicans observed on island below project in tailrace

All 125 avian lines in place without any deficiencies.

Operations:

Turbin 1 rts on 25 April. The heat exchanger had broken and needed repair. Awaiting clutch on turbine 3.

Trash raking of units began on 3/21.

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

Maintenance:

JD North AWS pump 2 returned to service on 3/27.

JD North AWS pumps frequent SKF alarms (auto greasing issues) continue and are cleared by JD Maintenance & Ops immediately. Planning for a long term fix underway.

JD South fish turbine's anti-ratchet gear was damaged beyond repair on 9 Apr. A spare is being assesed as a possible repair part.

JD North Fishway's LPS: Installation of the old pump assembly and electric controls will proceed at the end of April for start of trapping season.

JD South AWS turbine 3 is OOS, Part are to arrive on 26 April.

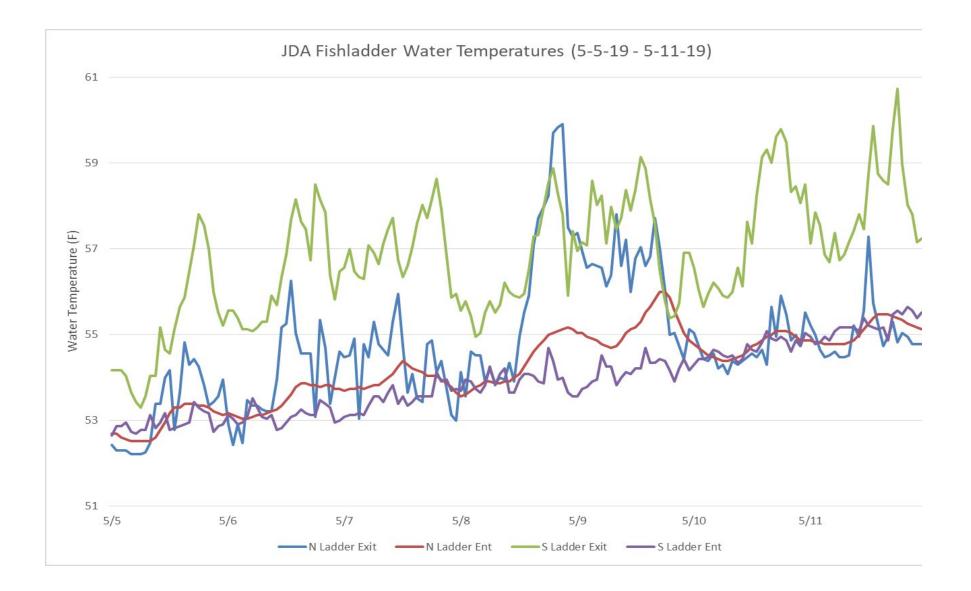
Calibration: All gauges/ sensors are within the criteria of 0.3'.

Research:

JDS and JDN Adult PIT systems are in service and detecting PIT tags since 3/1/18.

Uof I crew continues monitoring the RT Adult Lamprey passage at both JD Adult Fishways.

Approved by: Ron Twiner, Acting OPM



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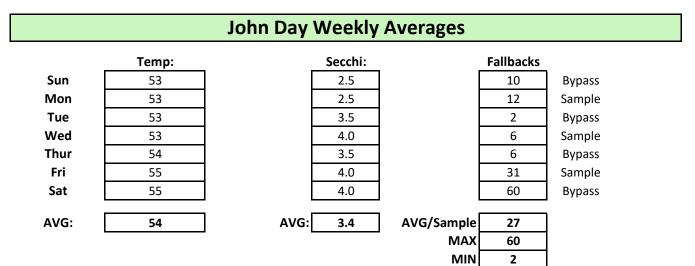
JDA Collection Channel Velocity

Date	5-May-19
By:	pete

Bay(s)	Time	Sec.	Velocity (f/s)
0-2	1:25	85	2.12
2 - 4	2:25	145	3.00
4 - 6	3:12	192	3.83
6 - 8	4:12	252	3.00
8 - 10	5:10	310	3.10
10 - 12	6:08	368	3.10
12 - 14	7:14	434	2.73
14 - 16	8:23	503	2.61
16 - 18	9:06	546	4.19
			3.08

tw=165.5 turbine 2-3=68rpm

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



	NE1	NE2	S.Ent	SE1	N.Ent	JBS Diff	Bay19
Sun	9.7	8.3	1.8	8.9	1.5	4.6	2.2
Sun	9.6	8.2	1.9	8.6	1.4	4.6	2.2
Mon	11.0	9.6	1.6	10.0	1.4	4.6	1.9
Mon	10.1	8.7	1.5	9.0	1.5	4.7	1.8
Tues	10.9	9.5	1.3	9.9	1.4	4.5	1.8
Tues	11.3	9.4	1.4	10.7	1.5	4.5	1.5
Wed	10.8	9.4	1.4	10.2	1.4	4.6	1.9
Wed	10.1	8.8	1.5	9.0	1.6	4.5	1.6
Thur	11.2	9.8	1.4	10.2	1.4	4.6	1.6
Thur	11.4	9.7	1.5	9.3	1.4	4.6	1.6
Fri	10.7	9.4	1.4	10.1	1.4	4.6	1.8
Fri	10.2	8.8	1.4	9.6	1.5	4.7	1.9
Sat	10.7	9.3	1.5	9.6	1.3	4.7	1.6
Sat	11.6	10.2	1.1	11.2	1.5	4.7	1.5
AVG:	10.7	9.2	1.5	9.7	1.4	4.6	1.8

JDA Bird Counts: <u>5/5/19</u> to <u>5/11/19</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	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)	
5-May	PHFB	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	20	39	19	0	79
5-May	SWFB	0	0	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	8
5-May	PH1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5-May	PH2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5-May		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5-May		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5-May		0	0	0	0	0	0	0	0	0	0	0	0	4	2	0	0	0	0	0	0	6
5-May		9	32	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	44
Avg/Su			1		4	-))		0		0		5	r	0	-	31		0	137
6-May		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	41	0	0	0	41
6-May		0	0	0	7	0	0	0	1	0	0	0	0	0	0	0	0	0	2	0	0	10
6-May		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6-May		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6-May		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6-May		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6-May		5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
6-May		0	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11
Avg/Su		0	3 0	2	4	0	0	0	0	0	0	0	0	0	0	0	0	37	2	0	0	67 39
7-May		0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	37 0	0	0	0	39
7-May		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7-May		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7-May		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7-May 7-May		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
7-May		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
7-May		3	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	7
Avg/Su			2		1					0	0			1	2	I		I	.9			46
8-May		0	0	2	0	0	0	5	0	0	0	0	0	0	0	0	0	39	1	0	0	40
8-May		0	0	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
8-May		0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	4
8-May		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8-May		0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1
8-May		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8-May		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8-May		10	15	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	27
Avg/Su			3		3)		3		0	ı ~ (0		2	ı ~ (0		20	ı ~ ()	80

JDA Bird Counts: <u>5/5/19</u> to <u>5/11/19</u>

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

Date	Zone		G	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)	
9-May	PHFB	0	0	0	0	0	0	3	1	0	0	0	0	0	0	0	0	16	14	0	0	34
9-May	SWFB	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
9-May	PH1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9-May	PH2	0	2	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	3
9-May	PH3	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
9-May	SW1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1
9-May	SW2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9-May	SW3	8	27	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	36
Avg/Su	urvey	2	21	(0	()	2	2		0	(0		1	1	L	1	.5	()	78
10-May		0	0	2	3	0	0	5	1	0	0	0	0	0	0	0	0	34	19	0	0	64
10-May	SWFB	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	3
10-May	PH1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10-May	PH2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10-May	PH3	3	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	4
10-May	SW1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10-May	SW2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10-May		5	14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	19
Avg/Su	-	1	1		4	()	3	8		0	(0		1	()	2	.7	()	90
11-May	PHFB	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	35	0	0	0	37
11-May	SWFB	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
11-May	PH1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11-May	PH2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11-May	PH3	9	14	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	24
11-May	SW1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11-May	SW2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11-May	SW3	9	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20
Avg/Su	urvey	2	22	:	1	()	1	L		0	(0	:	1	(כ	1	.8	()	82

Totals	Ģ	Gulls Cormorant				in tern	White	e Pelican	G	Total	
	F	NF	F	NF	F	NF	F	NF	F NF		
Weekly Total	191	30	0	18	0	0	21	1	300	19	580
Avg/Survey	14	2	0	1	0	0	2	0	21	1	41

