FISHWAY STATUS REPORT

 Date:
 5/18/2019

 Inspection Period:
 5/12/2019
 thru
 5/18/2019



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

JOHN DAY DAM

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:	56 F
	000	Limit		Secchi:	4.0 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	on 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 flow to SE	1	
South entrance differential	0	1.0' - 2.0'	AVG 1.5		
Entrance weir SE1	0	depth (≥ 8')	AVG 9.4		
Collection channel velocity	0	1.5 - 4 fps	AVG 3.02		
N. Entrance PH(Bay 19)differential	3	1.0' - 2.0'	AVG 1.9		
Entrance weir NE1	0	depth (≥ 8')	AVG 11.3		
Entrance weir NE2	0	depth (≥ 8')	AVG 9.9		
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.

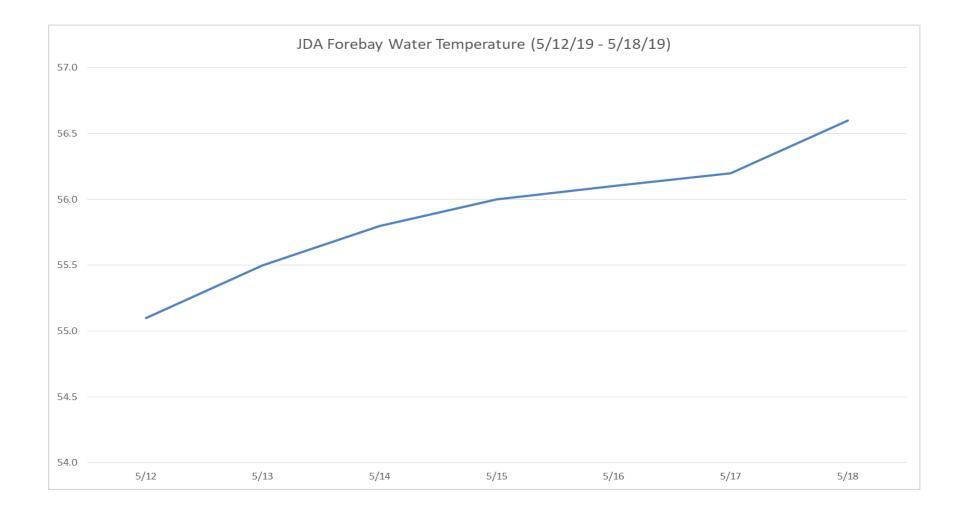
Calibration: All gauges/ sensors are within the criteria of 0.3'.

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

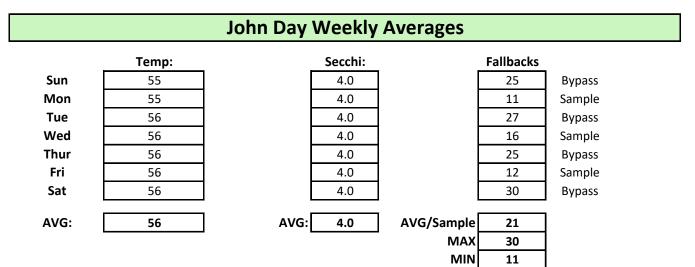


JDA Collection Channel Velocity

Date	17-May-19
By:	pete

Bay(s)	Time	Sec.	Velocity (f/s)
0-2	0:56	56	3.21
2 - 4	1:50	110	3.33
4 - 6	2:52	172	2.90
6 - 8	3:56	236	2.81
8 - 10	5:01	301	2.77
10 - 12	6:01	361	3.00
12 - 14	7:00	420	3.05
14 - 16	8:10	490	2.57
16 - 18	9:01	541	3.53
			3.02

tw = 163.6 turbine 1&2 = 68 rpm



	NE1	NE2	S.Ent	SE1	N.Ent	JBS Diff	Bay19
Sun	11.1	9.7	1.7	9.7	1.5	4.6	1.8
Sun	10.8	9.4	1.4	9.5	1.5	4.6	1.9
Mon	11.6	10.3	1.4	10.4	1.3	4.6	1.9
Mon	11.3	9.9	1.5	9.5	1.7	4.6	1.6
Tues	10.8	9.4	1.6	9.2	1.4	4.6	1.8
Tues	10.8	9.4	1.6	9.3	1.7	4.6	1.9
Wed	11.6	10.3	1.1	9.8	1.4	4.6	2.0
Wed	11.4	10.0	1.5	8.8	1.5	4.5	1.7
Thur	10.9	9.5	1.3	9.0	1.6	4.6	2.0
Thur	10.8	9.4	1.5	8.8	1.4	4.5	2.0
Fri	11.6	10.4	1.4	9.3	1.3	4.6	2.0
Fri	11.3	9.9	1.5	8.6	1.6	4.5	1.9
Sat	11.8	10.4	1.4	9.5	1.7	4.5	2.0
Sat	12.0	10.6	1.4	9.5	1.6	4.5	1.9
AVG:	11.3	9.9	1.5	9.4	1.5	4.6	1.9

JDA Bird Counts: <u>5/12/19</u> to <u>5/18/19</u>

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

Date	Zone		Ģ	Gulls			Cor	morant	t		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)	
12-May	PHFB	0	0	1	0	0	0	1	2	0	0	0	0	0	0	0	0	27	29	0	0	60
12-May	SWFB	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
12-May	PH1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12-May	PH2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
12-May	PH3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12-May	SW1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12-May	SW2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12-May		9	40	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	49
Avg/Su		2	5		1	()	2	2		0	(0	(0	(0	-	.8	(0	111
13-May	PHFB	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	29	21	0	0	52
13-May	SWFB	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
13-May	PH1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13-May		7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7
13-May	PH3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13-May	SW1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13-May	SW2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13-May		17	22	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	40
Avg/Su	-	2	-	1	1)	1	1		0		0	:	1		0	-	25		0	101
14-May		3	2	0	0	0	0	1	0	0	0	0	0	0	0	1	0	32	21	0	0	60
14-May		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14-May		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14-May		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14-May		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14-May		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14-May		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14-May		10	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30
Avg/Su		1			0)	1	1		0	-	0		0		1		27		0	<mark>90</mark>
15-May		0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	13	2	12	1	30
15-May		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15-May		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15-May		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15-May		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15-May		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15-May		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15-May		5	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16
Avg/Su	irvey	8	3		1	()	(0		0	(0	(0	(0		8		7	46

JDA Bird Counts: <u>5/12/19</u> <u>to</u> <u>5/18/19</u>

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

Date	Zone	Gulls					Cori	norant			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)	
16-May	PHFB	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	15	10	15	10	55
16-May	SWFB	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	2
16-May	PH1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16-May	PH2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16-May	PH3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16-May	SW1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16-May	SW2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16-May	SW3	0	50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	50
Avg/Su	urvey	2	.5	:	3	()	()		0	(0	:	1	()	1	.3	1	.3	107
17-May	PHFB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	18	15	17	14	64
17-May	SWFB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17-May	PH1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17-May	PH2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17-May	PH3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17-May	SW1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17-May	SW2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17-May		10	32	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	45
Avg/Su	urvey	2	1	(0	()	()		0	(0		2	()	1	.7	1	.6	109
18-May	PHFB	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	10	3	10	3	29
18-May	SWFB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18-May	PH1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18-May	PH2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18-May	PH3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18-May	SW1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1
18-May	SW2	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	2
18-May		21	65	0	0	0	0	0	0	0	0	0	0	1	22	0	0	0	0	0	0	109
Avg/Su	urvey	4	3	:	2	()	C)		0	(D	1	.3	()		7		7	141

Totals	(Gulls	Cor	morant	Caspia	in tern	White	e Pelican	G	Total	
	F	NF	F	NF	F	NF	F	NF	F NF		
Weekly Total	325	14	0	6	0	0	32	1	245	82	705
Avg/Survey	23	1	0	0	0	0	2	0	18	6	50

