FISHWAY STATUS REPORT

Date:	5/27/2017		
Inspection Period:	5/21/2017	thru	5/27/2017

JOHN DAY DAM

US Army Corps of Engineers Portland District 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	Inspections	Criteria	Total Number of Inspections:	14	Temperature:	55 F
	Out of Criteria	Limit			Secchi:	3.5 Ft.
NORTH FISHWAY			In service with all 6 AWS pumps avail	lable since 1	/19/17.	
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			In service since 3/3/17 with 2 out of	3 AWS turbi	ines available.	
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 1.1			
Entrance weir SE1	0	depth (≥ 8')	AVG 8.1			
Collection channel velocity	0	1.5 - 4 fps	AVG			
N. Entrance PH(Bay 19) differential	0	1.0' - 2.0'	AVG 1.9			
Entrance weir NE1	0	depth (≥ 8')	AVG 10.9			
Entrance weir NE2	0	depth (≥ 8')	AVG 10.9			
JUVENILE PASSAGE			JBS in service since 3/30/17.			
Forebay/bypass conduit differential	0	4.0' - 5.0'	AVG 4.6			
Submersible traveling screens	0	visual inspect	STS camera inspection detected two	bad screens	; replaced with wo	rking spares by 5/25.
Turbine trashrack drawdown	0	<1.5' <i>,</i> wkly	Trashrack Crane OOS on 5/24 due to	the clutch is	ssues.	
Vert barrier screen drawdown	0	<1.5', wkly				
Spill volume	0	FOP	Fish spill continues since per FOP. Ba		d to 3 stops since !	5/23 (see JDA08MFR)
Spill pattern	0	TSW per FPP	All Spillway bays in service since 5/22	2.		
Turbine Unit Priority	0	per FPP				
Turbine 1% Efficiency	0	per FPP				

SMOLT MONITORING FACILITY

SMF in service since 3/28 with every other day, 24 hrs condition sampling.

Maintenance:

Operation:

STS annual maintenance all complete in mid-May.

SMF SCADA update/mods' investigation by JD Electrical/ Portland District Engineers is underway.

Research: Approval of access' letters are being sent out for this year's research/access requests

Birds :

USDA gull hazing from a boat downstream of JD Tailrace BRZ continues since 5/15. The numbers of gulls fishing at JD have been low so far in 2017. see the Avian Numbers tab.

6 Tower-to-Tower, 3 spillway (2 failed in May,) 2 Navlock and 2 PH lines are missing out of 125 grid's total. They will be reinstalled for the 2018 passage season. Operations:

Spillbay #20 was reduced to 3 stops on 5/23 after two adult chinook salmon were found stranded on the adjacent tailrace deck (see JDA08MFR.)

Spillbay # 17 brakes were fixed and it returned to service on 5/16. Spillbays 3 & 5 repaired/ returned to service on 5/22. All JD Spillway bays are in service! Trashrack Crane OOS due to its clutch issues on 5/24. ETR is the next week.

JD South Fishway in service with two AWS Turbines and meeting all FPP criteria since 3/3/17.

JD North Fishway in service with all 6 AWS pumps available and meeting all FPP criteria since 1/19/17.

MU Gatewell Drawdowns: weekly or more frequently as necessary.

Maintenance:

Trashrack Crane OOS again, on 5/24. JD Maintenance plans to replace its clutch, with a new spare (on hand:) ETR is the next week.

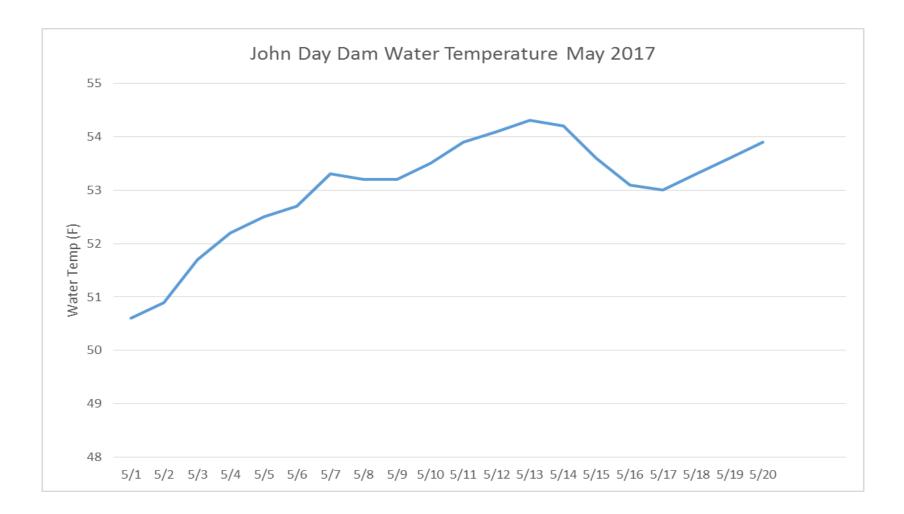
JD STS crane's emergency repairs were all completed in February with the minor glitches/ adjustments continuing. The crane remains in a risky operational condition until it's replaced with a brand new machine. However, the \$5 million for its replacement is not yet available.

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

Research:

WDFW angling crew continues the pikeminnow removal from JD PH tailrace (fishing from PH deck) since 5/15. Low fishing success so far due to the high flows. Adult PIT antennas' installation at JD South Fishway finished on 23 Feb. Both ladders' antennas in service with temporary power sources.





JDA Collection Channel Velocity

By: pete
By: pete

Bay(s)	Time	Sec.	Velocity (f/s)
0-2	1:11	71	2.54
2 - 4	2:21	141	2.57
4 - 6	3:38	218	2.34
6 - 8	4:45	285	2.69
8 - 10	5:56	356	2.54
10 - 12	7:09	429	2.47
12 - 14	8:18	498	2.61
14 - 16	9:25	565	2.69
16 - 18	10:27	627	2.90
			2.59

SE-1 TW = 165.0'

turbine 1 & 2 = 68 rpm



		John Day Weekly Avera	ages		
	Temp:	Secchi:	1	Fallbacks	
Sun	54	3.5		63	
Mon	55	3.5		35	
Tue	55	3.5		61	
Wed	55	3.5		33	
Thur	56	3.5		59	
Fri	56	3.5		27	
Sat	57	3.5		63	
AVG:	55	AVG: 3.5	AVG	49	
			MAX	63	

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MIN

	NE1	NE2	S.Ent	SE1	N.Ent	JBS Diff	Bay19
Sun	10.1	9.9	1.1	8.2	1.6	4.5	2.0
Sun	10.2	10.1	1.1	8.1	1.6	4.6	2.0
Mon	9.8	9.6	1.3	8.0	1.5	4.6	2.0
Mon	10.1	9.9	1.3	8.1	1.5	4.3	2.0
Tues	10.9	10.8	1.2	8.2	1.6	4.6	1.8
Tues	11.4	11.3	1.3	8.1	1.3	4.6	2.0
Wed	11.7	11.6	1.2	8.2	1.5	4.6	1.9
Wed	10.7	10.5	1.1	8.2	1.6	4.5	1.9
Thur	11.4	11.3	1.2	8.1	1.5	4.5	1.9
Thur	12.5	12.4	1.0	8.2	1.5	4.6	1.8
Fri	10.8	10.9	1.0	8.2	1.5	4.6	1.9
Fri	11.3	11.4	1.0	8.1	1.4	4.5	1.9
Sat	10.4	10.5	1.1	8.2	1.5	4.5	2.0
Sat	11.6	11.7	1.1	8.0	1.5	4.5	2.0
AVG:	10.9	10.9	1.1	8.1	1.5	4.5	1.9

				JDA B	ird C	ount	s:	<u>5/2</u> 2	1/17	<u>to</u>	 	5/27/	<u>17</u>									
		F(1): I	orag	e AM su	irvey	F(2)	: Fora	age PM	Survey	/ N	IF(1):	Non-Fc	orage A	M Sur	vey	NF(2)	: Non-l	Forage	e PM	Survey		
			(Gulls			Cor	morant	1	Casp		ian ter	'n		White	e Pelica	an	Grebe				
Date	Zone	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)	Total
21-May	PHFB	0	0	0	8	0	0	0	1	0	0	0	0	0	0	0	0	24	12	25	13	83
21-May	SWFB	0	0	0	1	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	3
21-May	PH1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21-May	PH2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21-May	PH3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21-May	SW1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21-May	SW2	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
21-May		17	87	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	107
Avg/Su		5	4	5	5		0		2		0		0	2	2		0	1	8	1	.9	196
22-May		0	0	2	1	0	0	0	1	0	0	0	0	0	0	0	0	26	10	27	10	77
22-May	SWFB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22-May	PH1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22-May	PH2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22-May	PH3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22-May	SW1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22-May	SW2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22-May		34	45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	79
Avg/Su		4	0	2		(0		1		0		0	()	(0		8	1	.9	156
23-May		0	0	1	5	0	0	0	0	0	0	0	0	0	0	0	0	22	17	23	17	85
23-May		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23-May		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23-May		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23-May		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23-May		0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
23-May		3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
23-May		9	29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	38
Avg/Su		1	2	3			0	r	0	1	0	1	0	I)		0	1	0		20	129
24-May		0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	23	22	24	22	92
24-May		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24-May		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24-May		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24-May		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24-May		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24-May		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24-May		14	25	0	0	0	0	0	0	0	0	0	0	9	0	0	0	0	0	0	0	48
Avg/Su	urvey	2	.0	1		(0	(0		0		0		5		0	2	3	2	23	140

	F(1): Forage AM survey F(2): Forage PM Survey NF(1): Non-Forage AM Survey NF(2): Non-Forage PM Survey																					
		. ,				. ,		<u> </u>			. ,		<u> </u>			. ,						
Date	Zone		Gulls				Corr	norant			Casp	ian ter	n		White	e Pelica	an		G	rebe		Total
Date	Zone	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)	TOLAT
25-May	PHFB	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	22	15	23	15	76
25-May	SWFB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25-May	PH1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25-May	PH2	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
25-May	PH3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25-May	SW1	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9
25-May	SW2	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
25-May		7	2	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	13
Avg/Su	urvey	1	.1		L	()	0		(0	(0	2	2	(0	1	.9	1	9	102
26-May	PHFB	0	1	0	0	2	1	0	0	0	0	0	0	1	0	0	0	28	21	20	20	94
26-May	SWFB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26-May	PH1	4	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8
26-May	PH2	3	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9
26-May	PH3	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
26-May	SW1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26-May	SW2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
26-May		5	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14
Avg/Su		2	20	()	2	2	0)	(0	(0	1	L	(0	2	.5	2	0	133
27-May		0	7	0	0	0	1	0	0	0	0	0	0	0	0	0	0	26	10	20	8	72
27-May		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27-May		2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
27-May		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27-May		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27-May		0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
27-May		0	13	0	0	1	0	0	0	0	0	0	0	2	2	0	0	0	0	0	0	18
27-May		7	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14
Avg/Su	urvey	2	20	()	1	L	0)	(0	(D	2	2	(0	1	.8	1	4	110

5/27/17

JDA Bird Counts: <u>5/21/17</u> to

Totals	Ċ	Gulls	Cori	morant	Casp	ian tern	White	e Pelican	G	Total	
	F	NF	F	NF	F	NF	F	NF	F	NF	TULAI
Weekly Total	371	20	5	4	0	0	21	0	278	267	966
Avg/Survey	27	1	0	0	0	0	2	0	20	19	69