FISHWAY STATUS REPORT

Date: 9/30/2017

Inspection Period: 9/24/2017 thru 9/30/2017

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	Inspections	Criteria	Total Number of Inspections: 14 Temperature: 67 F
	Out of Criteria	Limit	Secchi: 6.0 Ft.
NORTH FISHWAY			In service with all 6 AWS pumps available 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 turbines 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 1.5
Entrance weir SE1	0	depth (≥ 8′)	AVG 8.4
Collection channel velocity	0	1.5 - 4 fps	AVG 2.23
N. Entrance PH(Bay 19)differential	0	1.0' - 2.0'	AVG 1.5
Entrance weir NE1	0	depth (≥ 8′)	AVG 8.6
Entrance weir NE2	0	depth (≥ 8′)	AVG 8.8
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 completed 9/21. All STSs found undamaged in good working condition.
Turbine trashrack drawdown	0	<1.5', wkly	Trashrack Crane in service since 6/01.
Vert barrier screen drawdown	0	<1.5', wkly	
Spill volume	0	per FPP	Bay 2 at 1.6 cfs for adult attraction to the North Fishway entrance 1 Sept. thru 30 Nov.
Spill pattern	0	per FPP	Bay 2 only.
Turbine Unit Priority	0	per FPP	
Turbine 1% Efficiency	0	per FPP	

SMOLT MONITORING FACILITY

Operation:

SMF sampling concluded for the 2017 season on 15 September. SMF continues in bypass at Switch Gate for PIT detections through 30 November.

Maintenance:

STS annual maintenance all complete in mid-May.

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

Research: None

Birds:

USDA gull hazing from a boat downstream of JD Tailrace BRZ ended on 7/30/17.

see the Avian Numbers tab.

6 Tower-to-Tower, 6 spillway (1 failed 23 August,) 4 Navlock and 4 PH lines are missing out of 125 grid's total. They will be reinstalled for the 2018 passage season.

Operations:

Bay 2 at 1.6 cfs for adult attraction to the North Fishway entrance 1 Sept. thru 30 Nov.

Trashrack Crane in service since 6/01/17.

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:

JBS Tainter Gate was in manual mode due to the Channel's sensor failure since 8/27. Fixed on 9/13 and TG returned to Auto Mode that day.

Trashrack Crane was repaired/returned to service on 6/01.

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.

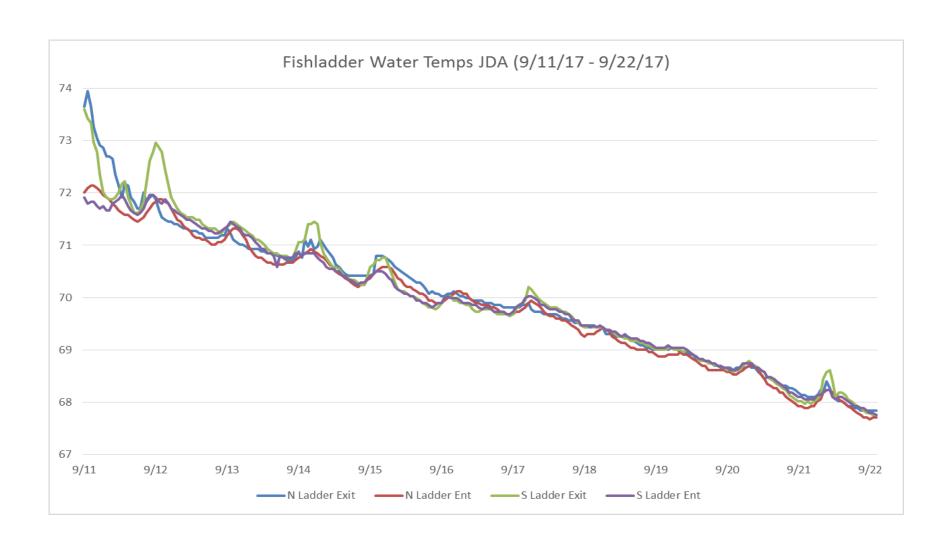
Calibration: All gauges/ sensors are within the criteria of 0.3'.

Research:

All tribal lamprey trapping successfully ended on 8/18/17.

WDFW angling crew continues the pikeminnow removal from JD PH tailrace since 5/15. Fall catches slow since August, with 3,375 NPM total by 9/3/17.

Adult PIT antennas' installation at JD South Fishway finished on 23 Feb. Both ladders' antennas in service with temporary power sources. Phase 2 support contract to install building/office spaces plus electrical and Gorgenet hookups underway since 7 August.



JDA Collection Channel Velocity

Date	21-Sep-17
By:	MDL

Bay(s)	Time	Sec.	Velocity (f/s)
0-2	1:17	77	2.34
2 - 4	2:42	162	2.12
4 - 6	4:09	249	2.07
6 - 8	5:31	331	2.20
8 - 10	6:54	414	2.17
10 - 12	8:15	495	2.22
12 - 14	9:36	576	2.22
14 - 16	10:58	658	2.20
16 - 18	12:09	729	2.54
			2.23

TW Bay19 = 159.9

RPMs 68/68 (2&3) (1 @ 0)



John Day Weekly Averages

Temp: Sun 67 Mon 67 Tue 67 Wed 67 Thur 66 66 Fri 66 Sat

AVG: 67 Secchi: 6.0 6.0 6.0 6.0 6.0 6.0 6.0

AVG: 6.0 Fallbacks NA NA NA NA NA NA NA

AVG NA NA MAX MIN NA

	NE1	NE2	S.Ent	SE1	N.Ent	JBS Diff	Bay19
Sun	8.4	8.4	1.4	8.5	1.6	4.5	1.9
Sun	8.2	8.5	1.1	8.5	1.7	4.6	1.8
Mon	8.2	9.6	1.5	8.7	1.5	4.6	1.6
Mon	10.1	10.1	1.4	8.6	1.5	4.6	1.6
Tues	10.1	10.1	1.3	9.4	1.5	4.6	1.4
Tues	8.2	8.5	1.5	9.3	1.4	4.5	1.4
Wed	8.7	8.2	1.6	8.0	1.6	4.5	1.5
Wed	8.1	8.0	1.5	8.0	1.5	4.6	1.5
Thur	8.0	8.0	1.5	8.0	1.5	4.6	1.6
Thur	8.8	8.8	1.5	8.0	1.5	4.6	1.3
Fri	8.5	8.5	1.5	8.0	1.6	4.6	1.7
Fri	8.0	8.9	1.6	8.0	1.5	4.5	1.5
Sat	8.8	8.8	1.4	8.0	1.6	4.6	1.3
Sat	8.7	8.7	1.6	8.0	1.6	4.6	1.4
AVG:	8.6	8.8	1.5	8.4	1.5	4.6	1.5

JDA Bird Counts:	9/24	<u>/17</u> to	<u>9/30/17</u>
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F(1): Forage AM survey F(2): Forage PM Survey NF(1): Non-Forage AM Survey NF(2): Non-Forage PM Survey

Date Zone F(1) F(2) NF(1) NF(2) F(1) NF(2) P(1) NF(2) NP(1) NP(2) P(1) NP(2) P(1) NP(2) P(1) NP(2) P(1) NP(2) P(1) NP(2) P(1) NP(2) <t< th=""><th>NF(1) NF(2) 34 6</th><th>Total</th></t<>	NF(1) NF(2) 34 6	Total
24-Sep SWFB 0 0 0 11 0 0 7 1 0 0 0 0 0 0 0 0 2	34 6	
	3. 0	134
24-Sep PH1 0 0 2 0 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 3	24
	0 0	4
24-Sep PH2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0	0
24-Sep PH3 0 0 0 0 0 7 0 0 0 0 0 0 0 0 0 0 0	0 0	7
24-Sep SW1 0 9 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0	9
24-Sep SW2 0 1 0 0 0 1 5 0 0 0 0 0 0 0 0 0 0 0	0 0	7
24-Sep SW3 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0	0
Avg/Survey 5 29 2 32 0 0 0 0 4	22	185
25-Sep PHFB 0 0 12 85 0 0 0 0 0 0 0 0 0 0 0 0 22 22	22 22	185
25-Sep SWFB 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0	0
25-Sep PH1	0 0	17
25-Sep PH2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0	0
25-Sep PH3 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0	0
25-Sep SW1 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0	1
25-Sep SW2 0 0 0 0 0 17 1 0 0 0 0 0 0 0 0 0	0 0	18
25-Sep SW3 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0	0
Avg/Survey 8 49 2 9 0 0 0 0 22	22	221
26-Sep PHFB 0 0 0 5 0 0 0 0 0 0 0 0 0 0 0 0 22 18	22 19	86
26-Sep SWFB 0 0 0 3 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0	3
26-Sep PH1 3 1 0 0 3 1 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0	8
26-Sep PH2	0 0	0
26-Sep PH3	0 0	8
26-Sep SW1	0 0	4
26-Sep SW2	0 0	38 0
26-Sep SW3 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	21	147
27-Sep PHFB 0 0 0 0 0 9 0 0 0 0 0 0 0 0 0 0	22 14	45
27-Sep SWFB 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0	43 0
27-Sep PH1 15 2 0 0 3 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0	22
27-Sep PH2 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0	22
27-Sep PH3 5 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0	5
27-Sep SW1 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0	2
27-Sep SW2	0 0	
27-Sep SW3 3 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0	2
Avg/Survey 15 0 3 7 0 0 0 0 0	18	84

JDA Bird Counts: <u>9/24/17</u> to <u>9/30/17</u>

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

Data	Date Zone		G	Gulls			Cormorant				Caspian tern			White Pelican				Grebe				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)	iotai
28-Sep	PHFB	0	0	0	0	0	0	18	0	0	0	0	0	0	0	0	0	0	0	46	28	92
28-Sep	SWFB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28-Sep	PH1	6	0	0	0	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10
28-Sep	PH2	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12
28-Sep	PH3	13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13
28-Sep	SW1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28-Sep	SW2	0	0	0	0	0	0	9	0	0	0	0	0	0	0	0	0	0	0	0	0	9
28-Sep	SW3	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
Avg/Su	ırvey	1	.7	(0	- 2	2	1	4	(0	(0	()	(0	(0	3	7	139
29-Sep	PHFB	0	0	0	0	0	0	33	3	0	0	0	0	0	0	0	0	0	0	24	26	86
29-Sep	SWFB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29-Sep	PH1	21	0	0	0	4	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	28
29-Sep	PH2	4	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8
29-Sep		4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
29-Sep	SW1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29-Sep	SW2	0	0	0	0	0	0	0	25	0	0	0	0	0	0	0	0	0	0	0	0	25
29-Sep	SW3	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8
Avg/Su		2	21)		1	3	1	(0	()	()	(0	. (0	2	5	159
30-Sep		0	0	0	0	0	0	28	0	0	0	0	0	0	0	0	0	0	0	41	40	109
30-Sep		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30-Sep		2	4	0	0	5	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13
30-Sep		11	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13
30-Sep	PH3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30-Sep		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30-Sep		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30-Sep		0	0	0	0	0	0	8	0	0	0	0	0	0	0	0	0	0	0	0	0	8
Avg/Su	ırvey	9	9	(0		5	1	8		0		0	()		0		0	4	1	143

Totals	(Gulls	Corı	morant	Casp	ian tern	White	e Pelican	G	Total	
Totals	F	NF	F	NF	F	NF	F	NF	F	NF	TOtal
Weekly Total	160	163	37	257	0	0	0	0	92	369	1078
Avg/Survey	11	12	3	18	0	0	0	0	7	26	77