FISHWAY STATUS REPORT

Date: 12/26/2015

Inspection Period: 12/20/2015 thru 12/26/2015

JOHN DAY DAM



JD/WC Project-Fisheries P.O. Box 823

Rufus, Oregon 97050 Phone: 541-506-7860

One inspection per day during the winter maintenance season, 1 December - 28 February. Frequent monitoring of the PLC displays in SMF Fisheries Office as necessary.

John Day Dam	Inspections	Criteria	Total Number of Inspections:	7	Temperature:	43 F
-	Out of Criteria	Limit			Secchi:	6.0 Ft.
NORTH FISHWAY			OOS for winter maintenance since 12/	1. ETR is t	he week of 12/28/	15.
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			3 AWS Turbines in regular service sinc	e 2/28/15		
Exit differential	0	≤ 0.5'				
Exit Control weirs	0	mid setting	return to mid setting 12-2-2015 due t	o forebay o	decreasing to < 265	5.0'
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 9.4			
Collection channel velocity	0	1.5 - 4 fps	AVG 2.87			
N. Entrance PH(Bay 19)differential	0	1.0' - 2.0'	AVG 1.3			
Entrance weir NE1	0	depth (≥ 8')	AVG 8.1			
Entrance weir NE2	0	depth (≥ 8′)	AVG 8.1			
JUVENILE PASSAGE			SMF successfully dewatered on 11/24	. JBS in ser	vice until 12/16 as	required by FPP.
Forebay/bypass conduit differential	0	4.0' - 5.0'	AVG 4.6			
Submersible traveling screens	0	visual inspect	The end of season' STSs removal starti	ing on 12/1	L6.	
Turbine trashrack drawdown	0	<1.5', wkly	MU trashracks' raking as necessary pe	r the differ	entials	
Vert barrier screen drawdown	0	<1.5', wkly				
Spill volume	0	Bay2 &1.6K	Spill season ended on 9/1.			
Spill pattern	0	per FPP				
Turbine Unit Priority	0	per FPP				
Turbine 1% Efficiency	0	per FPP				

SMOLT MONITORING FACILITY

Operation:

End of season dewatering completed on 11/24.

SMF will be OOS/ undergoing maintenance until mid March'15. JBS continues in service in its pre-SMF configuration (bypass at Crest Gate.)

Maintenance:

SMF has been winterized by JD Fisheries on 11/15. Only regular PMs will be performed this coming winter as all SMF hardware appears to be in good working order overall. The elevated chute's expansion joints appear to be in good condition, but need the surface epoxy coating.

Research:

None

Fallbacks: AVG: MAX: 0 MIN: 0

OTHER JOHN DAY ISSUES:

Birds:

see the Avian Numbers tab. We report all species and locations, but in reality only gulls in the tailrace BRZ are relevant at JD.

10 Navlock and Spillway lines are missing out of 125 total; JD attempting to contract their reinstallation before May 2016; need \$...

Lines 25 and 26 have been reinstalled by a contractor by 11/21; the remaining lines have been retensioned under the same contract.

Operations:

JD North fishway upper was successfully dewatered on 12/1.

JD North entrance was dewatered/inspected on 12/7; the gratings there continue in mint condition/are rock solid. ETR for JDN is the week of 12/28.

JD South Fishway in regular service with 3 AWS Turbines; it is meeting the optimal FPP criteria. Its annual dewatering is scheduled for 1/11/16.

MU Gatewell Drawdowns: Complete for 2015 passage season.

Maintenance:

JD North Fishway's winter maintenance underway since 12/2. AWS pumps' contractor continues testing and repairing all six units.

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

Research:

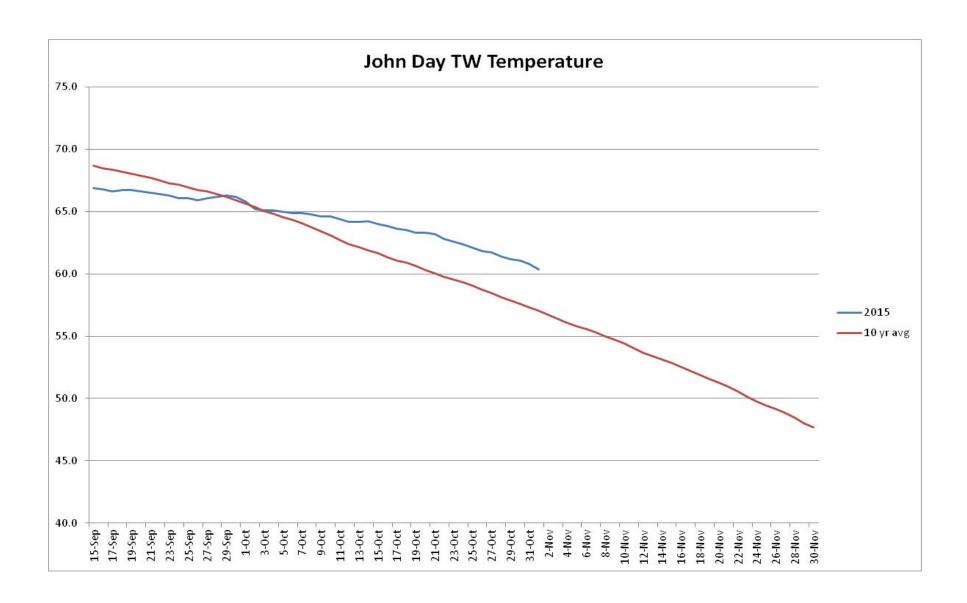
2015 Adult Fish Counting by Normandeau Associates was completed on 10/31. The counting will commence again on 1 April 2016.

Proposal by PSMFC to install Adult PIT antennas at both JD Fishways is at the design/PDT level.

Kevin Moynahan Date: December 26, 2015

OPM John Day/Willow Creek Project

MOYNAHAN, KEVERIFY buthenticity, with Approved CK, 1393959157



JDA Collection Channel Velocity

Date	24-Dec-15
Ву:	MDL

Bay(s)	Time	Sec.	Velocity (f/s)
0-2	1:29	89	2.02
2 - 4	2:31	151	2.90
4 - 6	3:35	215	2.81
6 - 8	4:37	277	2.90
8 - 10	5:45	345	2.65
10 - 12	6:48	408	2.86
12 - 14	7:52	472	2.81
14 - 16	8:56	536	2.81
16 - 18	9:40	580	4.09
			2.87

JDA Bird Counts: <u>12/20/15</u> to <u>12/26/15</u>

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

Date Zone		Gulls		Cor	morant			Casp	ian ter	n	١	White	e Pelica	ın		G	rebe		Total
	F(1) F(2)	NF(1) N	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
20-Dec PHFB	0 0	0	0	0 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20-Dec SWFI	0 0	865	0	0 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	865
20-Dec PH1	8 0	0	0	2 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10
20-Dec PH2	0 0	0	0	0 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20-Dec PH3	0 0	0	0	0 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20-Dec SW1	0 0	0	0	0 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20-Dec SW2	0 0	0	0	0 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20-Dec SW3	0 0	0	0	0 0	7	0	0	0	0	0	0	0	0	0	0	0	0	0	7
Avg/Survey	4	433		1		1	()	()	()	()	(0	()	882
21-Dec PHFB		0	0	0 0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	3
21-Dec SWF		890	0	0 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	890
21-Dec PH1	0 0	0	0	0 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21-Dec PH2	0 0	0	0	0 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21-Dec PH3	0 0	0	0	0 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21-Dec SW1	0 0	0	0	0 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21-Dec SW2	0 0	0	0	0 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21-Dec SW3	0 0	0	0	0 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Avg/Survey	0	445	Т	0)))	()		2	•	0	893
22-Dec PHFB	F .	511	0	0 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	511
22-Dec SWF		144	0	0 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144
22-Dec PH1	7 0	0	0	1 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8
22-Dec PH2	0 0	0	0	0 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22-Dec PH3	0 0	0	0	0 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22-Dec SW1	0 0	0	0	0 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22-Dec SW2	0 0	0	0	0 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22-Dec SW3	0 0	0	0	0 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Avg/Survey	4	328		1)	`))	()		0		0	663
23-Dec PHFB	-	237	0	0 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	237
23-Dec SWFI		183	0	0 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	183
23-Dec PH1	17 0	0	0	1 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	18
23-Dec PH2	1 0	0	0	0 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
23-Dec PH3	15 0	0	0	0 0	13	0	0	0	0	0	0	0	0	0	0	0	0	0	28
23-Dec SW1	0 0	0	0	0 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23-Dec SW2	0 0	0	0	0 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23-Dec SW3	0 0	0	0	0 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Avg/Survey	17	210		1	7	7	()	()	()	()	(0	(0	467

JDA Bird Counts: <u>12/20/15</u> to <u>12/26/15</u>

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

Date	Zone		(Gulls			Corr	morant			Casp	ian ter	n	,	White	e Pelica	n	n Gr		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)	TOtal
24-Dec	PHFB	0	0	17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17
24-Dec	SWFB	0	0	133	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	134
24-Dec	PH1	5	0	14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	19
24-Dec	PH2	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
24-Dec	PH3	8	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	11
24-Dec	SW1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24-Dec	SW2	0	0	0	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	5
24-Dec		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Avg/Su			9	8	32	()	5	5	(0	()	()	(0	(0	(0	190
25-Dec	PHFB	0	0	17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17
25-Dec		0	0	133	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	133
25-Dec	PH1	5	0	14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	19
25-Dec	PH2	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
25-Dec	PH3	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8
25-Dec	SW1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25-Dec	SW2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25-Dec		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Avg/Su			9	8	32	. ()	()	(0	()	()	(0	(0	()	181
26-Dec		0	0	3	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	5
26-Dec		0	0	123	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	123
26-Dec	PH1	13	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	18
26-Dec	PH2	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
26-Dec	PH3	1	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	4
26-Dec	SW1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
26-Dec	-	0	0	0	0	0	0	9	0	0	0	0	0	0	0	0	0	0	0	0	0	9
26-Dec		0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Avg/Su	ırvey	1	.0	6	7	()	7	7	(0	()	()		0	(0		0	166

Totals	(Gulls	Cormorant		Casp	ian tern	White	e Pelican	G	Total	
	F	NF	F	NF	F	NF	F	NF	F	NF	Total
Weekly Total	101	3291	4	43	0	0	0	0	3	0	3442
Avg/Survey	7	235	0	3	0	0	0	0	0	0	246



John Day Weekly Averages

	Temp:
Sun	43
Mon	43
Tue	43
Wed	43
Thur	43
Fri	42
Sat	42

Secchi:							
6.0							
6.0							
6.0							
6.0							
6.0							
6.0							
6.0							

Fallbacks							

AVG: 43

AVG: 6.0

AVG
MAX 0
MIN 0

	NE1	NE2	S.Ent	SE1	N.Ent	JBS Diff	Bay19
Sun	8.2	8.3	1.5	9.0	oos	4.5	1.2
Sun					oos		
Mon	8.1	8.3	1.6	9.5	oos	4.6	1.3
Mon					oos		
Tues	8.1	8.0	1.6	8.9	1.6	4.5	1.2
Tues							
Wed	8.1	8.0	1.5	8.9	1.6	4.4	1.3
Wed							
Thur	8.2	8.0	1.4	9.6	1.5	4.6	1.3
Thur							
Fri	8.2	8.1	1.4	9.9	1.5	4.6	1.3
Fri							
Sat	8.1	8.1	1.3	10.1	1.5	4.6	1.3
Sat							
AVG:	8.1	8.1	1.5	9.4	1.5	4.5	1.3