

FISHWAY STATUS REPORT

Date: 9/9/2017
 Inspection Period: 9/3/2017 thru 9/9/2017



US Army Corps
 of Engineers
 Portland District

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:	13	Temperature:	72 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	1.4		
Entrance weir SE1	0	depth (≥ 8')	AVG	8.5		
Collection channel velocity	0	1.5 - 4 fps	AVG	2.42		
N. Entrance PH(Bay 19)differential	0	1.0' - 2.0'	AVG	1.5		
Entrance weir NE1	0	depth (≥ 8')	AVG	8.4		
Entrance weir NE2	0	depth (≥ 8')	AVG	8.4		
JUVENILE PASSAGE			JBS in service since 3/30/17.			
Forebay/bypass conduit differential	0	4.0' - 5.0'	AVG	#DIV/0!	Manual mode due to CH sensor failure since 8/28/17.	
Submersible traveling screens	0	visual inspect				
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	FOP	Fish spill ended and two TSW were shut down on 8/31.			
Spill pattern	0	TSW per FPP	All Spillway bays in service since 5/22.			
Turbine Unit Priority	0	per FPP				
Turbine 1% Efficiency	0	per FPP				

SMOLT MONITORING FACILITY

Operation:

SMF in a limited, twice a week, 6 hrs sampling due to river temperatures above 70F since 7/23/17.

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:

Spillbay #20 continues reduced to 3 stops after two adult chinook salmon were found stranded on the adjacent tailrace deck on 5/30 (see JDA08MFR.)

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 in manual mode due to the Channel's sensor failure since 8/27. Shortage of JD O&M funding may result in a longer OOS.

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 (fishing from PH deck) since 5/15. **Great catches with 3,332 NPM total by 9/3/17.**

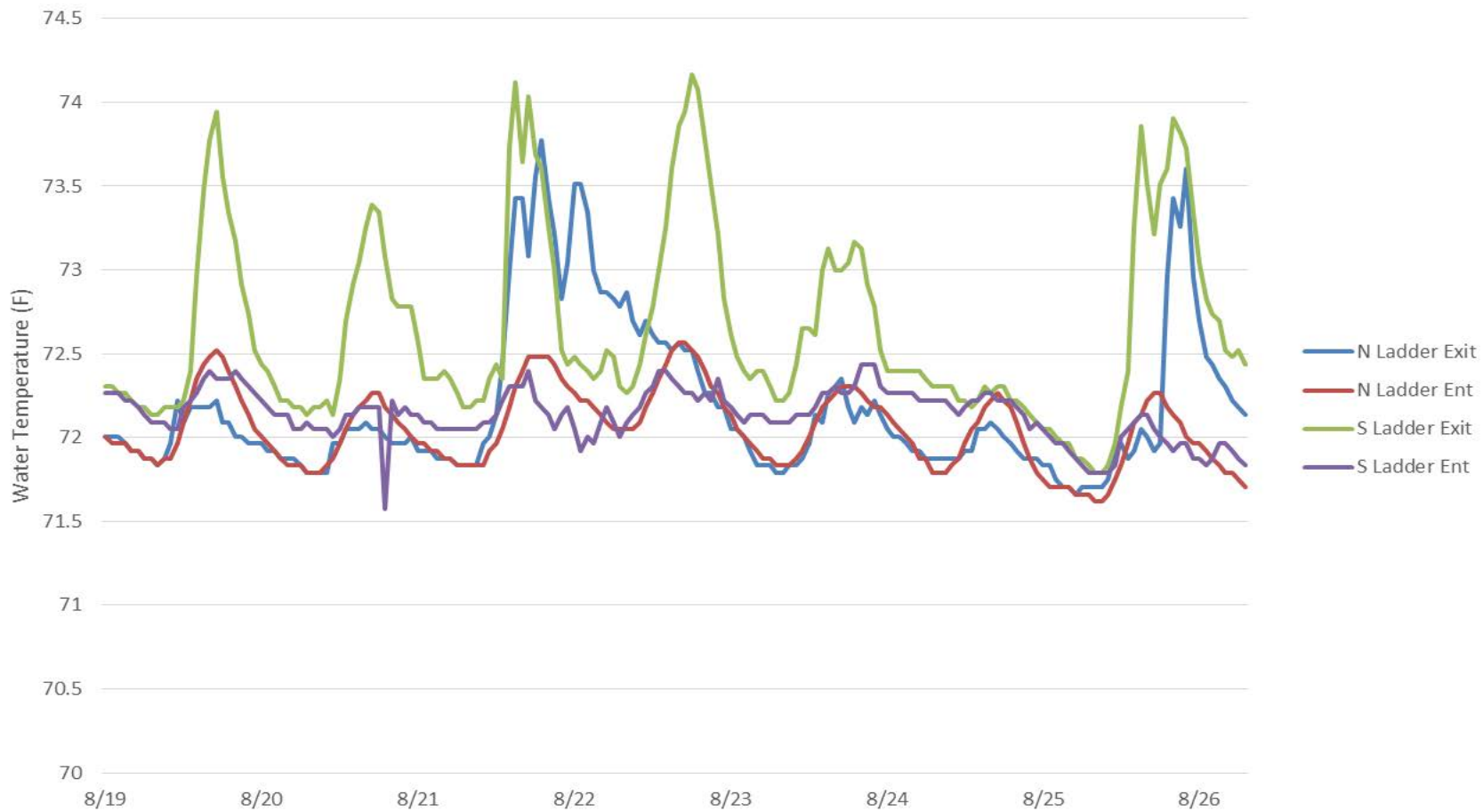
Adult PIT antennas' installation at JD South Fishway finished on 23 Feb. Both ladders' antennas in service with temporary power sources. Phase 2 support contract to install building/ office spaces plus electrical and Gorgenet hookups underway since 7 August.

MOYNAHAN, KEVIN, PATRICK, 1393959157

E-Signed by MOYNAHAN, KEVIN, PATRICK, 1393959157
VERIFY authenticity with ApproveIt



John Day Dam Fishladder Water Temperatures (8/19/17 - 8/26/17)



JDA Collection Channel Velocity

Date 26-Aug-17

By: MDL

Bay(s)	Time	Sec.	Velocity (f/s)
0-2	1:19	79	2.28
2 - 4	2:33	153	2.43
4 - 6	3:51	231	2.31
6 - 8	5:08	308	2.34
8 - 10	6:20	380	2.50
10 - 12	7:38	458	2.31
12 - 14	8:56	536	2.31
14 - 16	10:10	610	2.43
16 - 18	11:13	673	2.86
			2.42

TW Bay19= 159.7

RPMs 68/68

John Day Dam
Avian Zones



John Day Weekly Averages

	Temp:	Secchi:	Fallbacks	
Sun	72	6.0		0.0
Mon	72	6.0	13	6 hour, limited sample m
Tue	72	6.0		
Wed	72	6.0		
Thur	72	6.0	18	6 hour sample mode
Fri	72	6.0		
Sat	72	6.0		
AVG:	72	AVG: 6.0	AVG 16	
			MAX 18	
			MIN 13	

	NE1	NE2	S.Ent	SE1	N.Ent	JBS Diff	Bay19
Sun	9.0	8.9	1.4	8.8	1.4	4.0-5.0	1.6
Sun	8.6	8.4	1.4	8.8	1.5	4.0-5.0	1.6
Mon	8.1	8.3	1.5	8.0	1.6	4.0-5.0	1.8
Mon	8.7	8.7	1.4	8.1	1.5	4.0-5.0	1.7
Tues	8.3	8.3	1.4	8.0	1.5	4.0-5.0	1.5
Tues	-	-	-	-	-	-	-
Wed	8.6	8.4	1.6	8.4	1.6	4.0-5.0	1.5
Wed	8.5	8.7	1.2	9.4	1.5	4.0-5.0	1.5
Thur	8.1	8.0	1.5	8.0	1.7	4.0-5.0	1.7
Thur	8.7	8.6	1.4	8.7	1.5	4.0-5.0	1.4
Fri	8.2	8.1	1.4	8.5	1.6	4.0-5.0	1.5
Fri	8.1	8.2	1.4	8.8	1.6	4.0-5.0	1.5
Sat	8.3	8.3	1.6	8.5	1.5	4.0-5.0	1.4
Sat	8.2	8.2	1.4	8.5	1.6	4.0-5.0	1.4
AVG:	8.4	8.4	1.4	8.5	1.5	#DIV/0!	1.5

Tainter gate in manual mode but in criteria- due to CH sensor failure

iode

