FISHWAY STATUS REPORT

Date: 12/30/2013

Inspection Period: 12/22 thru 12/28/2013



JOHN DAY DAM

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

Rufus, Oregon 97050 Phone: 541-506-7860

All JD Fishways are inspected once per day during winter season; frequent monitoring of the PLC displays in SMF Fisheries Office as necessary.

John Day Dam	Inspections	Criteria	Total Nun	nber of Insp	ections:	5	Temperature:	40.0 F
-	Out of Criteria	Limit					Secchi:	6.0 Ft.
NORTH FISHWAY			In regular	service and	meeting the	optimal FF	P criteria	
Exit differential	0	≤ 0.5′						
Exit Control weirs	0	High setting	High settir	ng is normal	for JDN			
Count station differential	0	≤ 0.3′						
Weir crest depth	0	1.0' ± 0.1'						`
Entrance differential	0	1.0' - 2.0'	AVG	1.6				
SOUTH FISHWAY			In regular	service with	all three AW	'S turbines	working properly	
Exit differential	0	≤ 0.5′						
Exit Control weirs	0	MID setting	MID is nor	rmal for JDS				
Count station differential	0	≤ 0.3′						
Weir crest depth	0	1.0' ± 0.1'						
South entrance differential	0	1.0' - 2.0'	AVG	1.3				
Entrance weir SE1	0	depth (≥ 8')	AVG	8.7				
Collection channel velocity	0	1.5 - 4 fps	AVG	3.12				
Bay 1 differential	0	1.0' - 2.0'	AVG	1.7				
N. Entrance PH(Bay 19)differential	0	1.0' - 2.0'	AVG	1.2				
Entrance weir NE1	0	depth (≥ 8')	AVG	8.6				
Entrance weir NE2	0	depth (≥ 8')	AVG	8.6				
JUVENILE PASSAGE			OOS for w	vinter mainte	nance since	12/20. RT	S in late March 20)14.
Forebay/bypass conduit differential	n/a	4.0' - 5.0'	AVG	4.6				
Submersible traveling screens	n/a	visual inspect						
Turbine trashrack drawdown	n/a	<1.5', wkly						
Vert barrier screen drawdown	n/a	<1.5', wkly						
Spill volume	n/a	n/a					·	
Spill pattern	n/a	n/a						
Turbine Unit Priority	n/a	per FPP						
Turbine 1% Efficiency	n/a	per FPP						

SMOLT MONITORING FACILITY

Operation: SMF was successfully dewatered on 12/17 after JD Mechanics fixed the crest gate's lifting mechanism. Complete winterization of flushing

water pipes and valves underway. RTS is mid March 2014.

Debris: N/A **Maintenance:**

SMF building / wet lab OOS and winterized by JD Fisheries.

SMF CCTV replacement is in a planning stage. Likely implementation soon.

Research: None

Fallbacks: AVG: 0 MAX: 0 MIN: 0

OTHER ISSUES:

JOHN DAY

Birds: See Avian tabs.

122 avian lines are properly installed. Four lines are currently missing; spillway/TSW line broke on 4/12/13. JD Management preparing a plan for the missing lines' replacement before 2014 passage season.

Operations:

JD North Fishway returned to regular service on 12/19 and it has been meeting the optimal FPP criteria since.

JD South Fishway in service, meeting the optimal FPP criteria with all three AWS turbines. Its dewatering scheduled for 7 January '14.

All STSs were removed from MU gatewells for winter maintenance by 19 December. JBS started 1/3 open orifices rotation schedule on 12/20. JBS collection channel is scheduled for dewatering/ inspection in early February 2014.

Maintenance:

Calibration: 12/8/2013 All JD Fishways' PLCs/ water level sensors were within 0.3' margin of error.

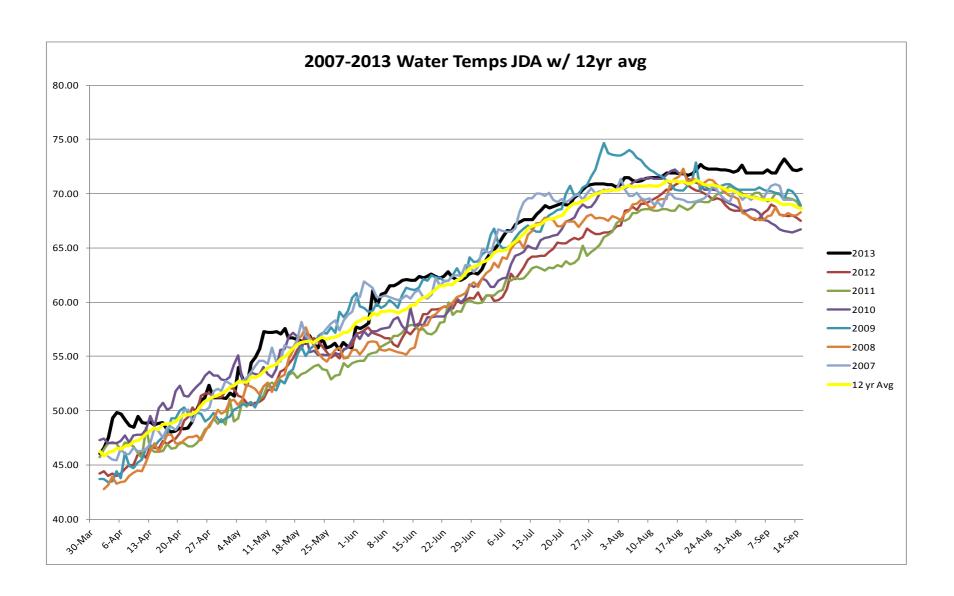
Research:

Fish counting at both JD Fishways ended 10/31/13. Video counting began 11/1 and will continue through the winter.

Adult Salmonids Radio telemetry evaluations are ongoing at both JD adult fishway. University of Idaho crew is in charge of detecting of all adult adult salmonids, which were first tagged at Bonneville Dam.

Date: 13-Jan-14

Glen A. Smith PE
OPM John Day/Willow Creek Project



JDA COLLECTION CHANNEL VELOCITY

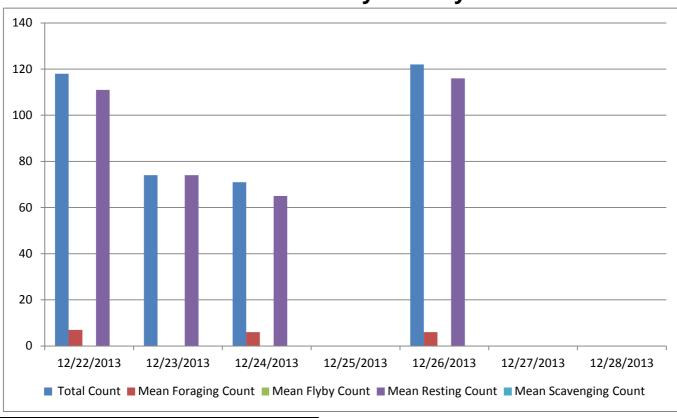
 Date
 21-Dec-13

 By:
 pkr

Bay(s)	Time	Sec.	Velocity (f/s)
0-2	0:01:23	83	2.17
2 - 4	0:02:20	140	3.16
4 - 6	0:03:16	196	3.21
6 - 8	0:04:14	254	3.10
8 - 10	0:05:10	310	3.21
10 - 12	0:06:10	370	3.00
12 - 14	0:07:17	437	2.69
14 - 16	0:08:13	493	3.21
16 - 18	0:08:55	535	4.29

3.12

Bird Count by Activity



		Mean		Mean	Mean
	Total	Foraging	Mean Flyby	Resting	Scavenging
Date	Count	Count	Count	Count	Count
12/22/2013	118	7		111	
12/23/2013	74			74	
12/24/2013	71	6		65	
12/25/2013					
12/26/2013	122	6		116	
12/27/2013					
12/28/2013					

Seasonal High numbers of GULLS in the Forebay and on the WING WALL.

Christmas

Heavy Fog



John Day:

	Temp:		Secchi:	_	Fallbacks
Sun	40		6.0		
Mon	40		6.0		
Tues	40		6.0		
Wed					
Thur	40		6.0		
Fri					
Sat	40		6.0		
AVG:	40.0	AVG:	6.0	AVG	
'				MAX	
				MIN	

	NE1	NE2	S.Ent	SE1	N.Ent	JBS Diff	Bay1	Bay19
Sun	8.8	8.8	1.3	9.1	1.5	4.5	1.6	1.2
Sun								
Mon	8.4	8.4	1.3	8.6	1.6	4.7	1.8	1.2
Mon								
Tues	8.5	8.5	1.4	8.6	1.7	4.7	1.7	1.3
Tues								
Wed								
Wed								
Thur	8.7	8.7	1.3	8.8	1.6	4.5	1.6	1.1
Thur								
Fri								
Fri								
Sat	8.4	8.4	1.4	8.5	1.6	4.5	1.7	1.3
Sat								
AVG:	8.6	8.6	1.3	8.7	1.6	4.6	1.7	1.2

Christmas