FISHWAY STATUS REPORT

Date: 5/5/2013 **Inspection Period:** 4/28 thru 5/4/2013

JOHN DAY DAM



JD/WC Project-Fisheries

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Fishway inspected twice per day during walk throughs; frequent monitoring of the PLC displays in SMF Fisheries Office as necessary.

John Day Dam	Inspections	Criteria	Total Number of Inspections: 14 Temperature: 52.1 F
	Out of Criteria	Limit	Secchi: 4.3 Ft.
NORTH FISHWAY			In regular service with three AWS pumps since 4/3/13. Five operational since 4/09/13
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	0	1.0' ± 0.1'	· ·
Entrance differential	0	1.0' - 2.0'	AVG 1.5
SOUTH FISHWAY			In regular service with all three AWS turbines since 2/12/13
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	0	1.0' ± 0.1'	
South entrance differential	0	1.0' - 2.0'	AVG 1.4
Entrance weir SE1	0	depth (≥ 8')	AVG 9.7
Collection channel velocity	0	1.5 - 4 fps	ft/sec 3.30
Bay 1 differential	0	1.0' - 2.0'	AVG 1.8
N. Entrance PH(Bay 19)differential	0	1.0' - 2.0'	AVG 1.4
Entrance weir NE1	0	depth (≥ 8')	AVG 8.8
Entrance weir NE2	0	depth (≥ 8')	AVG 8.9
JUVENILE PASSAGE			JBS/SMF continues in regular service, in sampling mode
Forebay/bypass conduit differential	0	4.0' - 5.0'	AVG 4.6
Submersible traveling screens	0	visual inspect	STSs camera inspection complete on 4/18.
Turbine trashrack drawdown	0	<1.5', wkly	MU intake trashracks raking completed 5/1; very little visible debris was present
Vert barrier screen drawdown	0	<1.5', wkly	
Spill volume	0	per FPP	Spill for fish passage started on 4/10; alternating 30/40 % levels same as 2012
Spill pattern	0	per FPP	
Turbine Unit Priority	0	per FPP	MU Priority with two TSWs 4/10 through 8/31
Turbine 1% Efficiency	0	per FPP	

SMOLT MONITORING FACILITY

Operation: SMF in regular sampling mode since 3/31/13. Manned 24/7 thru 9/15 by COE personnel. PSMFC biologists performing daily sampling. All necessary STSs were installed by 3/28.

PDS screen rake continues in regular service without any issues.

Debris: Light with mostly small beaver-generated sticks and tumbleweeds.

Maintenance: No issues. All winter maintenance/PM activities successfully completed by 4/1/13.

SMF CCTV replacement is in planning stage; the original system installed in 1998 is barely usable and its components have been failing frequently.

Research: None. No fish collections are planned for 2013.

Fallbacks: AVG: 40 MAX: 51 MIN: 30

OTHER ISSUES:

JOHN DAY

Birds: See Avian tabs.

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

Daily, 8 hrs gull hazing shifts by USDA boat crew started at JD tailrace on 4/17; ongoing and effective so far.

Overall, the JD gull abundance / predation is minimal and under control.

Operations:

JD North Fishway in regular service with three AWS pumps operational since 4/2. Five pumps operational since 4/9; JDN is meeting the optimal entrance/FPP criteria of 1.5'. Pump 6 tripped due to high RTD 3 alarm and PLC immediately started pump 3 as its replacement on 4/26 early AM.

JD South Fishway in regular service with all three AWS turbines; it is meeting the optimal entrances' criteria of 1.5'.

JD Structural crew completed the STSs' camera inspections on 4/18. Two bad screens were found, removed and replaced with working spares.

JD Ops reported that one JBS orifice, at MU 15 was opened prematurely resulting in back flow into an empty gatewell for approximately 15 minutes on 5/2. A subsequent inspection found one juvenile salmonid mort floating in that gatewell after it was filled up with water. JD Ops instituted new process to prevent any future occurrence of an incorrect orifice opening.

All JD Spillway bays are in regular service per FPP pattern requirement.

New construction:

The last of six JD North AWS pumps, # 5's completion is delayed by contractor/Construction Office; this pumps is non-critical/ always spare.

Maintenance:

JD Electrical completed work on spillway bay 13, which returned to service on 4/23.

Gatewell draw down: Measurements made on 4/28 and 5/01. All units were within established limits.

Calibration: 5/1/2013 All JD Fishways' PLCs/ water level sensors were within 0.3' margin of error.

Research:

Fish counting began at both adult ladders on 4/1 under contract with Normandeau Associates; there were no problems with the startup.

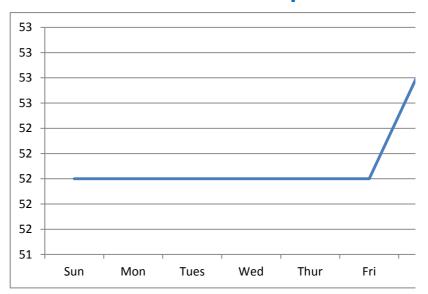
JD South Counting Station' automated lamprey trap in-water installation complete on 2/12; the trap's hoist will be installed outside of fishway in May.

JD North prototype Lamprey Passage System's (LPS) installation was successfully completed by University of Idaho crews by 3/12/13.

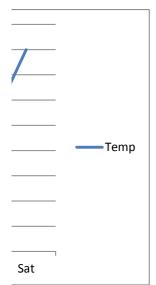
JD Fisheries coordinating with U of I crews for the Adult Salmonids Radio telemetry's equipment set up, ETR is May '13.

Glen A.	Smith PE	Date:	

River Temperature



Day	Temp
Sun	52
Mon	52
Tues	52
Wed	52
Thur	52
Fri	52
Sat	53



JDA COLLECTION CHANNEL VELOCITY

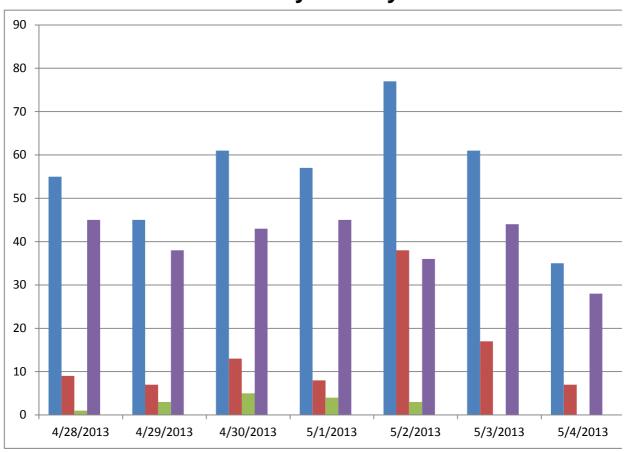
 Date
 27-Apr-13

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Bay(s)	Time	Sec.	Velocity (f/s)
0-2	0:01:11	71	2.54
2 - 4	0:02:02	122	3.53
4 - 6	0:03:01	181	3.05
6 - 8	0:03:55	235	3.33
8 - 10	0:04:49	289	3.33
10 - 12	0:05:49	349	3.00
12 - 14	0:06:54	414	2.77
14 - 16	0:07:54	474	3.00
16 - 18	0:08:35	515	4.39

3.30

Bird Count by Activity



		Mean		Mean	Mean
	Total	Foraging	Mean Flyby	Resting	Scavenging
Date	Count	Count	Count	Count	Count
4/28/2013	55	9	1	45	
4/29/2013	45	7	3	38	
4/30/2013	61	13	5	43	
5/1/2013	57	8	4	45	
5/2/2013	77	38	3	36	
5/3/2013	61	17		44	
5/4/2013	35	7		28	

Total Count
Mean Foraging Count
Mean Flyby Count
Mean Resting Count
Mean Scavenging Count





John Day:

•	Temp:		Secchi:		Fallbacks
Sun	52		3.5		40
Mon	52		3.5		43
Tues	52		3.5		30
Wed	52		4.5		38
Thur	52		5.0		39
Fri	52		5.0		51
Sat	53		5.0		38
AVG:	52.1	AVG:	4.3	AVG	40
•				MAX	51
				MIN	30
				•	

Sun
Sun
Mon
Mon
Tues
Tues
Wed
Wed
Thur
Thur
Fri
Fri
Sat
Sat
AVG:

NE1	NE2	S.Ent	SE1	N.Ent	JBS Diff	Bay1	Bay19
9.1	9.3	1.5	10.0	1.4	4.7	1.9	1.5
8.3	8.3	1.4	10.0	1.5	4.5	1.9	1.4
8.6	8.8	1.5	10.0	1.4	4.5	1.8	1.4
8.3	8.5	1.4	9.7	1.6	4.3	1.9	1.5
8.8	8.9	1.4	9.9	1.4	4.9	1.8	1.4
8.2	8.1	1.2	9.4	1.7	4.5	1.8	1.4
9.2	9.2	1.4	10.0	1.4	4.6	1.8	1.4
8.4	8.5	1.6	9.2	1.5	4.6	2.0	1.5
9.3	9.3	1.4	10.1	1.4	4.6	1.7	1.2
8.5	8.5	1.6	9.8	1.5	4.5	1.9	1.4
9.2	9.2	1.4	9.9	1.4	4.5	1.8	1.5
9.3	9.3	1.4	9.9	1.4	4.5	1.9	1.4
8.8	8.8	1.3	8.3	1.7	4.5	1.7	1.1
9.2	9.2	1.4	9.9	1.5	4.6	1.8	1.4
8.8	8.9	1.4	9.7	1.5	4.6	1.8	1.4