## FISHWAY STATUS REPORT

**Date:** 11/29/2014

**Inspection Period:** 11/23 thru 11/29/14

## 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 season, March. 1 - Nov. 31 Frequent monitoring of the PLC displays in SMF Fisheries Office as necessary.

John Day Dam	Inspections	Criteria	Total Number of Inspections: 14 Temperature: 47 F
-	Out of Criteria	Limit	Secchi: 5.3 Ft.
NORTH FISHWAY			In regular service with three out of six AWS pumps available
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 regular service with all three AWS turbines
Exit differential	0	≤ 0.5′	
Exit Control weirs	0	High setting	HIGH since 11/1 to optimize the control section's flows for forebay > 265.0
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 8.9
Collection channel velocity	0	1.5 - 4 fps	AVG 3.21
N. Entrance PH(Bay 19)differential	0	1.0' - 2.0'	AVG 1.4
Entrance weir NE1	0	depth (≥ 8')	
Entrance weir NE2	0	depth (≥ 8')	AVG 9.0
JUVENILE PASSAGE			SMF successfully dewatered on 11/24. JBS continues in service through 12/15.
Forebay/bypass conduit differential	0	4.0' - 5.0'	AVG 4.6
Submersible traveling screens	0	visual inspect	MU7 - STS failed (torn mesh) & was replaced with spare within a few hours, 11/21 AM
Turbine trashrack drawdown	0	<1.5', wkly	Minimal amount of wooden debris during trashracks raking the week of 11/24.
Vert barrier screen drawdown	0	<1.5', wkly	Gatewell drawdown performed twice a week or more frequently if high river debris loads
Spill volume	0	1.6 kcfs	Bay 2 at 1.6 kcfs daylight only through November
Spill pattern	0	per FPP	Bay 2 at 1.6kcfs to provide additional attraction to JD North Entrance
Turbine Unit Priority	0	per FPP	Planned BPA Line 1 (MU1-4) outage started on 10/21. RTS is 12/5/14
Turbine 1% Efficiency	0	per FPP	

#### SMOLT MONITORING FACILITY

Operations: End of season dewatering completed on 11/24. SMF will be OOS/ undergoing maintenance until late March'15.

Debris: N/A

Maintenance: SMF winterized by 11/26. Annual PMs underway. One transport flume's joint needs to be sealed; no other issues this year.

Research: None

Fallbacks: AVG: #DIV/0! MAX: #DIV/0! MIN: #DIV/0! System in Primary By-pass

### OTHER ISSUES:

#### JOHN DAY

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.

Very high number of gulls, cormorants and grebes ( > 500,) but it is apparent that they are primarily feeding on the abundant juvenile shad.

Avian line # 26 was found failed/its end in the water on 9/1. This is shore- to-shore line and immediately adjacent to the previously missing # 27.

JD Engineering preparing SOW for the re-installation contract, which is expected in March '15; funding by special CRFM \$.

#### Operations:

JBS continues in service for kelts fallback protection through 12/15.

JD North Fishway is in regular service and meeting the FPP criteria. Scheduled for annual dewatering on 12/2.

JD South Fishway in regular service and meeting the FPP criteria.

Bay 2, 1.6 kcfs daylight spill from Bay 2 continues daily, September through November to provide additional attraction to JD North Entrance.

#### Maintenance:

BPA Line 1 (MU 1-4) planned/replacement outage started on 10/21. RTS is 12/5/14.

JD North AWS pumps - three out of total six are available. AWS pump # 4 continues in OOS status due to its lower bearing issues.

COE Engineering/contractor continue with the AWS testing and pump repairs.

Calibration: 10/20/2014 All sensors were within the criteria of 0.3'.

JD South Fishway's bay 1 & 19 tailrace failed back in July, 2014 and were TR'd immediately. Waiting for the new sensors (on order) to replace them.

JD Fisheries crew takes frequent manual measurements/ makes adjustments, which is more than satisfactory to meet the criteria this time of year.

Gatewell Drawdown: 11/23/2014.

No units measured greater then 1.3 ft of differential, debris loading is increasing.

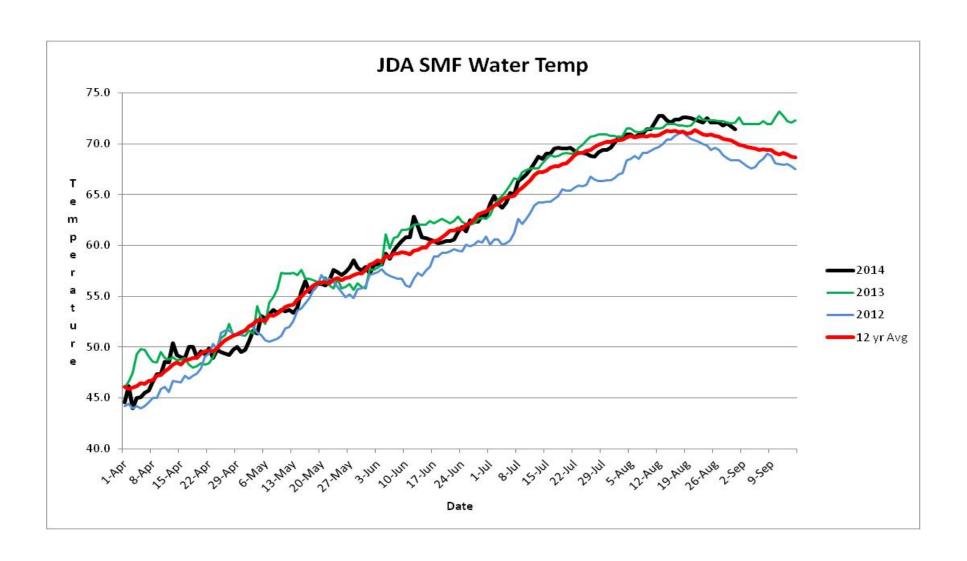
#### Research:

2014 Adult Fish Counting by Normandeau Associates completed on October 31. No fish counting at JD to occur until 1 April, 2015.

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

Kevin Moynahan Date:\_\_\_\_ 3-Dec-14

OPM John Day/Willow Creek Project



JD	A COL	LECTION	ON CHA	ANNEL V	ELOC	TY	
	Ì						
		Date	7-Nov-14				
	-	Ву:	egg,pkr	•			
				_			
	Bay(s)	Time	Sec.	Velocity (f/s)			
	0-2	01:11.0	71	2.54			
	2 - 4	0:02:08	128	3.16			
	4 - 6	0:03:05	185	3.16			
	6 - 8	0:04:02	242	3.16			
	8 - 10	0:04:57	297	3.27			
	10 - 12	0:05:55	355	3.10			
	12 - 14	0:06:55	415	3.00			
	14 - 16	0:07:55	475	3.00			
	16 - 18	0:08:35	515	4.50			
				3.21			
	-						
	-						
	_						-
	-						
	_						

# **2014 JDA Piscivorous Bird Counts**

F=foraging, NF=non-foraging

				Gull		Cormo	orant	Caspia	n tern	AWP	Έ	Gre	be	Total	
		Time		_				_						birds in	
Date	Session	(24 hr)	Zone	F	NF	F	NF	F	NF	F	NF	F	NF	zone	Observer
23-Nov-14			PHFB	0	1323	0	0	0	0	0	0	0	90	1413	Pete
23-Nov-14	1		SWFB	0	1177	0	0	0	0	0	0	0	0	1177	Pete
23-Nov-14			PH1	4	0		0	0	0	0	0	0	0	8	Pete
23-Nov-14			PH2	0	0	_	0	0	0	0	0	0	0	0	Pete
23-Nov-14			PH3	0	0		0	0	0	0	0	0	0	0	Pete
23-Nov-14			SW1	0	0		0	0	0	1	0	4	0	10	Pete
23-Nov-14	1		SW2	0	0	0	0	0	0	0	0	0	0	0	Pete
23-Nov-14	1		SW3	0	0	0	0	0	0	0	0	0	0	0	Pete
23-Nov-14			PHFB	0	1275	0	0	0	0	0	0	0	90	1365	Pete
23-Nov-14			SWFB	0	455	0	0	0	0	0	0	0	0	455	Pete
23-Nov-14		14:00		0	43	10	0	0	0	0	0	4	0	57	Pete
23-Nov-14		14:00		0	0	_	0	0	0	0	0	0	0	0	Pete
23-Nov-14		14:00		0	0		0	0	0	0	0	0	0	0	Pete
23-Nov-14		14:00		0	0		0	0	0	0	0	0	0	1	Pete
23-Nov-14	2		SW2	0	0	0	0	0	0	0	0	0	0	0	Pete
23-Nov-14	2		SW3	0	0	0	0	0	0	0	0	0	0	0	Pete
24-Nov-14			PHFB	0	14	0	0	0	0	0	0	0	46	60	DEK
24-Nov-14			SWFB	0	290	0	0	0	0	0	0	0	0	290	DEK
24-Nov-14	1		PH1	0	0	8	0	0	0	0	0	0	0	8	DEK
24-Nov-14	1		PH2	0	0	0	0	0	0	0	0	0	0	0	DEK
24-Nov-14	1		PH3	0	0	0	0	0	0	0	0	0	0	0	DEK
24-Nov-14			SW1	0	0	0	0	0	0	0	0	0	0	0	DEK
24-Nov-14			SW2	0	0	0	0	0	0	0 0	0	0	0	0	DEK
24-Nov-14 24-Nov-14			SW3 PHFB	0	0	0	0	0	0	0	0	0	90	90	DEK Pete
24-Nov-14 24-Nov-14			SWFB	0	1495	0	0	0	0	0	0	0	90	90 1495	Pete
24-Nov-14 24-Nov-14	2	14:00		34	0	12	0	0	0	0	0	0	0	1495 46	Pete
24-Nov-14 24-Nov-14	2	14:00		0	0	0	0	0	0	0	0	0	0	40 0	Pete
24-Nov-14 24-Nov-14	2	14:00		0	0	0	0	0	0	0	0	0	0	0	Pete
24-Nov-14 24-Nov-14	2	14:00	_		0	0	0	0	0	0	0	0	0	0	Pete
24-Nov-14 24-Nov-14	2		SW2	0	0	0	0	0	0	0	0	0	0	0	Pete
24-Nov-14 24-Nov-14			SW3	0	0	0	0	0	0	0	0	0	0	0	Pete
25-Nov-14			PHFB	0	414	1	0	0	0	0	0	0	54	469	Pete
25-Nov-14 25-Nov-14			SWFB	0	85		0	0	0		0	0	0		Pete
23-NUV-14	1 +	1.30	SWED	ı	65	U	U	U	U	U	U	U	U	00	FEIG

25-Nov-14	1	7:30	PH1	13	0	1	ol	0	ol	0	ol	4	ol	18	Pete
25-Nov-14	1		PH2	0	0	0	ő	0	ő	0	0	0	0	0	Pete
25-Nov-14	1		PH3	0	0	0	Ö	0	Ö	0	0	0	0	0	Pete
25-Nov-14	1		SW1		0	2	Ö	0	Ö	0	0	0	0	2	Pete
25-Nov-14	1		SW2	0	0	0	0	0	0	0	0	0	0	0	Pete
25-Nov-14	1		SW3	0	0	0	0	0	0	0	0	0	0	0	Pete
25-Nov-14	2		PHFB	0	414	0	0	0	0	0	0	0	54	468	Pete
25-Nov-14	2	14:00	SWFB	0	85	0	0	0	0	0	0	0	0	85	Pete
25-Nov-14	2	14:00	PH1	0	0	0	0	0	0	0	0	0	0	0	Pete
25-Nov-14	2	14:00	PH2	0	0	0	0	0	0	0	0	0	0	0	Pete
25-Nov-14	2	14:00	PH3	0	0	0	0	0	0	0	0	0	0	0	Pete
25-Nov-14	2	14:00	SW1	0	0	0	0	0	0	0	0	0	0	0	Pete
25-Nov-14	2	14:00	SW2	0	0	0	0	0	0	0	0	0	0	0	Pete
25-Nov-14	2	14:00	SW3	0	0	0	0	0	0	0	0	0	0	0	Pete
26-Nov-14	1	7:30	PHFB	0	0	0	0	0	0	0	0	0	44	44	DEK
26-Nov-14	1	7:30	SWFB	0	350	0	0	0	0	0	0	0	0	350	DEK
26-Nov-14	1		PH1	4	0	15	0	0	0	0	0	0	0	19	DEK
26-Nov-14	1		PH2	0	0	0	0	0	0	0	0	0	0	0	DEK
26-Nov-14	1		PH3	0	0	0	0	0	0	0	0	0	0	0	DEK
26-Nov-14	1		SW1	0	0	0	0	0	0	0	0	0	0	0	DEK
26-Nov-14	1		SW2	0	0	0	0	0	0	0	0	0	0	0	DEK
26-Nov-14	1		SW3	0	0	0	0	0	0	0	0	0	0	0	DEK
26-Nov-14	2		PHFB	0	0	0	0	0	0	0	0	0	43	43	DEK
26-Nov-14	2		SWFB	0	350	0	0	0	0	0	0	0	0	350	DEK
26-Nov-14	2	14:00		34	0	12	0	0	0	0	0	0	0	46	DEK
26-Nov-14	2	14:00		0	0	0	0	0	0	0	0	0	0	0	DEK
26-Nov-14	2	14:00		0	0	0	0	0	0	0	0	0	0	0	DEK
26-Nov-14	2		SW1	0	0	0	0	0	0	0	0	0	0	0	DEK
26-Nov-14	2		SW2	0	0	0	0	0	0	0	0	0	0	0	DEK
26-Nov-14	2		SW3	0	0	0	0	0	0	0	0	0	0	0	DEK
27-Nov-14	1		PHFB	0	0	0	0	0	0	0	0	0	29	29	DEK
27-Nov-14	1		SWFB	0	250	0	0	0	0	0	0	0	0	250	DEK
27-Nov-14	1		PH1	4	0	7	0	0	0	0	0	0	0	11	DEK
27-Nov-14	1		PH2	0	0	0	0	0	0	0	0	0	0	0	DEK
27-Nov-14	1		PH3	0	0	0	0	0	0	0	0	0	0	0	DEK
27-Nov-14	1		SW1	0	0	0	0	0	0	0	0	0	0	0	DEK
27-Nov-14	1		SW2	0	0	0	0	0	0	0	0	0	0	0	DEK
27-Nov-14	1		SW3	0	0	0	0	0	0	0	0	0	0	0	DEK
27-Nov-14	2		PHFB	0	96	0	0	0	0	0	0	0	31	127	DEK
27-Nov-14	2	14:00	SWFB	0	200	0	0	0	0	0	0	0	0	200	DEK

27-Nov-14	2	14:00	PH1	7	0	11	0	0	0	0	0	0	o	18	DEK
27-Nov-14	2	14:00	PH2	0	0	0	0	0	0	0	0	0	0	0	DEK
27-Nov-14	2	14:00	PH3	0	0	0	0	0	0	0	0	0	0	0	DEK
27-Nov-14	2	14:00	SW1	0	0	0	0	0	0	0	0	0	0	0	DEK
27-Nov-14	2	14:00	SW2	0	0	0	0	0	0	0	0	0	0	0	DEK
27-Nov-14	2	14:00	SW3	0	0	0	0	0	0	0	0	0	0	0	DEK
28-Nov-14	1	7:30	PHFB	0	4	0	0	0	0	0	0	0	44	48	DEK
28-Nov-14	1		SWFB	0		0	0	0	0	0	0	0	0	370	DEK
28-Nov-14	1	7:30	PH1	12	0	6	0	0	0	0	0	0	0	18	DEK
28-Nov-14	1	7:30	PH2	0	0	0	0	0	0	0	0	0	0	0	DEK
28-Nov-14	1	7:30	PH3	0	0	0	0	0	0	0	0	0	0	0	DEK
28-Nov-14	1	7:30	SW1	0	0	0	0	0	0	0	0	0	0	0	DEK
28-Nov-14	1		SW2	0	0	_	0	0	0	0	0	0	0	0	DEK
28-Nov-14	1		SW3	0			0	0	0	0	0	0	0	0	DEK
28-Nov-14	2		PHFB	0	_	0	0	0	0	0	0	0	43	110	DEK
28-Nov-14	2		SWFB	0	350	0	0	0	0	0	0	0	0	350	DEK
28-Nov-14	2	14:00		9	0	7	0	0	0	0	0	0	0	16	DEK
28-Nov-14	2	14:00		0	•	0	0	0	0	0	0	0	0	0	DEK
28-Nov-14	2	14:00		0	•		0	0	0	0	0	0	0	0	DEK
28-Nov-14	2		SW1	0	•		0	0	0	0	0	0	0	0	DEK
28-Nov-14	2		SW2	0	-		0	0	0	0	0	0	0	0	DEK
28-Nov-14	2		SW3	0			0	0	0	0	0	0	0	0	DEK
29-Nov-14	1		PHFB	0	_	0	2	0	0	0	0	0	41	49	DEK
29-Nov-14	1		SWFB	0		0	0	0	0	0	0	0	0	107	DEK
29-Nov-14	1		PH1	18			0	0	0	0	0	0	0	29	DEK
29-Nov-14	1		PH2	0	_		0	0	0	0	0	0	0	0	DEK
29-Nov-14	1		PH3	0	•		0	0	0	0	0	0	0	0	DEK
29-Nov-14	1		SW1	0	•		0	0	0	0	0	0	0	0	DEK
29-Nov-14	1		SW2	0	_		0	0	0	0	0	0	0	0	DEK
29-Nov-14	1		SW3	0	_		0	0	0	0	0	0	0	0	DEK
29-Nov-14	2		PHFB	0		0	0	0	0	0	0	0	43	148	Jim
29-Nov-14	2		SWFB	0			0	0	0	0	0	0	0	115	Jim
29-Nov-14	2	14:00		16			0	0	0	1	0	0	0	20	Jim 
29-Nov-14	2	14:00		0	•		0	0	0	0	0	0	0	0	Jim 
29-Nov-14	2	14:00		0	•		0	0	0	0	0	0	0	0	Jim 
29-Nov-14	2		SW1	0	U	0	0	0	0	0	0	0	0	0	Jim 
29-Nov-14	2		SW2	0	·	0	0	0	0	0	0	0	0	0	Jim 
29-Nov-14	2	14:00	SW3	0	0	0	0	0	0	0	0	0	0	0	Jim



### John Day:

	Temp:		Secchi:		Fallbacks
Sun	49		6.0		
Mon	47		5.0		
Tues	47		6.0		
Wed	47		5.0		
Thur	47		5.0		
Fri	47		5.0		
Sat	47		5.0		
AVG:	47	AVG:	5.3	AVG	#DIV/0!
				MAX	#DIV/0!
				MIN	#DIV/0!

	NE1	NE2	S.Ent	SE1	N.Ent	JBS Diff	Bay19
Sun	8.8	8.9	1.6	8.9	1.5	4.6	1.4
Sun	9.1	9.2	1.4	9.2	1.5	4.6	1.4
Mon	9.1	9.2	1.5	9.2	1.3	4.6	1.5
Mon	9.0	9.1	1.4	9.1	1.5	4.6	1.3
Tues	8.8	8.8	1.4	8.9	1.4	4.6	1.2
Tues	8.8	8.9	1.5	8.8	1.5	4.6	1.4
Wed	8.8	8.9	1.5	8.8	1.5	4.6	1.3
Wed	8.9	9.0	1.5	9.0	1.5	4.5	1.4
Thur	8.9	9.0	1.5	9.0	1.4	4.5	1.4
Thur	8.8	8.9	1.5	8.9	1.6	4.6	1.4
Fri	8.8	8.9	1.5	8.9	1.6	4.6	1.3
Fri	8.9	9.0	1.5	9.0	1.6	4.6	1.4
Sat	9.1	9.2	1.3	9.2	1.5	4.6	1.3
Sat	8.4	8.4	1.5	8.3	1.5	4.6	1.4
AVG:	8.9	9.0	1.5	8.9	1.5	4.6	1.4