FISHWAY STATUS REPORT

Date: 10/25/2014

Inspection Period: 10/19 thru 10/25/2014

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 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: 63 F
-	Out of Criteria	Limit	Secchi: 5.0 Ft.
NORTH FISHWAY			In regular service. Five AWS pumps available since 4/11
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	MID setting	MID 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 1.5
Entrance weir SE1	0	depth (≥ 8')	AVG 8.4
Collection channel velocity	0	1.5 - 4 fps	AVG 3.11
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')	
Entrance weir NE2	0	depth (≥ 8')	AVG 8.4
JUVENILE PASSAGE			SMF continues in bypass for the full flow PIT tags detections through 24 November
Forebay/bypass conduit differential	0	4.0' - 5.0'	AVG 4.6
Submersible traveling screens	0	visual inspect	October STS/VBS camera inspection 10/20-25: no problems were found.
Turbine trashrack drawdown	0	<1.5', wkly	Next raking of intake trashracks is scheduled for the last week of October
Vert barrier screen drawdown	0		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: Sampling season ended on 9/15; SMF continues in bypass for the full flow PIT tags detections until 24 November.

JD Fisheries crew works an abbreviated 18 hrs/7 swing shift schedule as required by FPP.

Debris: N/A due to bypass / DA Separator OOS.

Maintenance: Annual winter maintenance activities are planned to commence in December. The Sampling Building's piping has been already winterized by JD Fisheries crew, with Mr. Kovalchuk, PSMFC biologist assisting. Cleanup inside and outside of the Building underway.

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.

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:

JD North Fishway is in regular service and meeting the FPP criteria.

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:

JD North AWS pumps - five out of total six are available for service since 4/11. AWS pump # 4 continues in OOS status due to its lower bearing issues.

JD Engineering/contractor continue with its repairs.

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

JD South Fishway's bay 19 tailrace sensor was determined erratic/failed on 7/22 and TR'd immediately. JD Electrical found it clogged up by debris and cleaned it up on 7/30. Awaiting for a new sensor to replace it. JD Fisheries takes frequent manual measurements to keep the fishway in criteria.

Gatewell Drawdown: 10/22/2014. No units measured greater then 1.3 ft of differential for this reporting week debris loading is light...

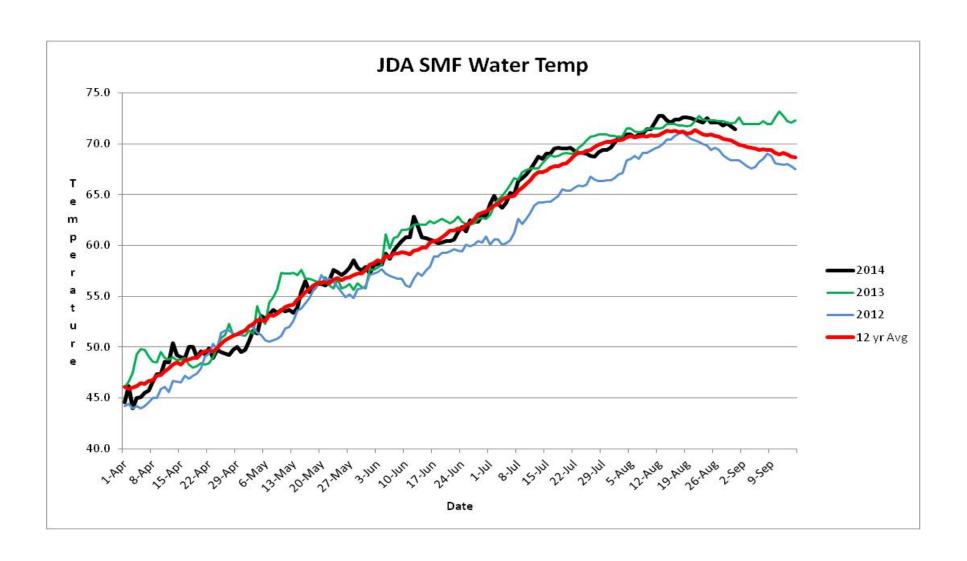
Research:

2014 Adult Salmonids counting by Normandeau Associates continues through October 31 as required by FPP.

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:____ 30-Oct-14

OPM John Day/Willow Creek Project



JD	A COL	LECTION	ON CHA	ANNEL V	FLOC	ITY	
02	7.002						
		Date	24-Oct-14	'			
	-	Ву:	mz, pr	•			
				•			
	Bay(s)	Time	Sec.	Velocity (f/s)			
	0-2	01:13.0	73	2.47			
	2 - 4	0:02:10	130	3.16			
	4 - 6	0:03:11	191	2.95			
	6 - 8	0:04:17	257	2.73			
	8 - 10	0:05:15	315	3.10			
	10 - 12	0:06:14	374	3.05			
	12 - 14	0:07:13	433	3.05			
	14 - 16	0:08:11	491	3.10			
	16 - 18	0:08:52	532	4.39			
	-			3.11			
	-						
	-						
	_						

2014 JDA Piscivorous Bird Counts

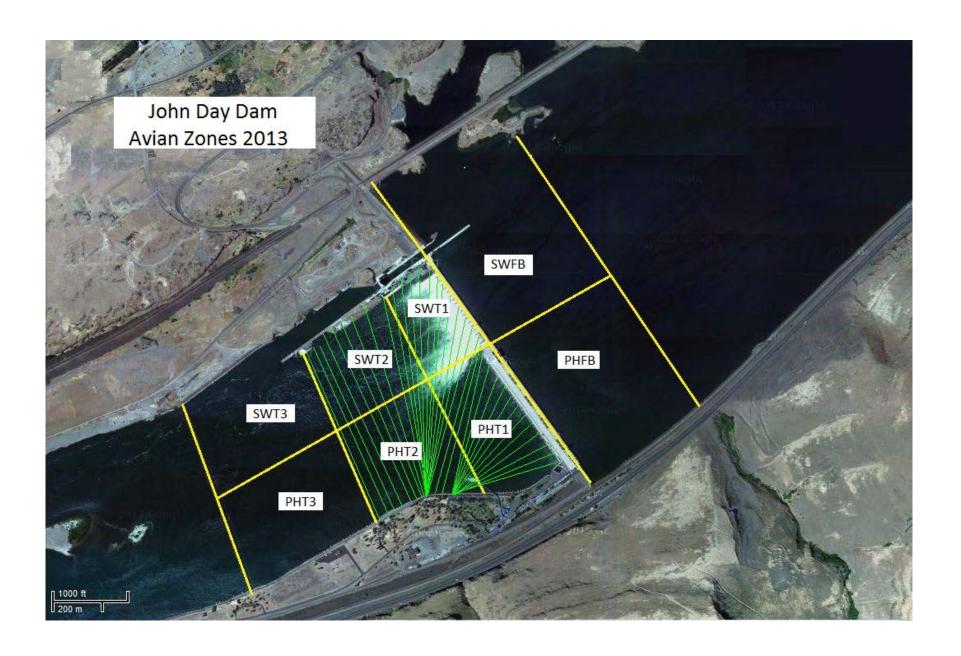
F=foraging, NF=non-foraging

				Gull		Cormo	orant	Caspia		AWP		Gre	be	Total	
		Time												birds in	
Date	Session	(24 hr)	Zone	F	NF	F	NF	F	NF	F	NF	F	NF	zone	Observer
12-Oct-14	1		PHFB	0	0		0		0	0	0	49	199	250	pete
12-Oct-14	1		SWFB	0	230		0	0	0	0	0	0	0	230	pete
12-Oct-14	1		PH1	0	0		0	0	0	0	0	0	0	4	pete
12-Oct-14	1		PH2	0	0		0	0	0	0	0	0	0	0	pete
12-Oct-14	1		PH3	0	0		0	0	0	0	0	0	0	0	pete
12-Oct-14	1		SW1	0	0		0	0	0	0	0	0	0	0	pete
12-Oct-14	1		SW2	0	0		0	0	0	0	0	0	0	0	pete
12-Oct-14	1		SW3	0	0	0	0	0	0	0	0	0	0	0	pete
12-Oct-14	2		PHFB	0	5	1	0	0	0	0	0	23	82	111	pete
12-Oct-14	2		SWFB	0	225	0	0	0	0	0	0	0	0	225	pete
12-Oct-14	2	14:00		0	0	0	0	0	0	0	0	0	0	0	pete
12-Oct-14	2	14:00		0	0	0	0	0	0	0	0	0	0	0	pete
12-Oct-14	2	14:00		0	0	0	0	0	0	0	0	0	0	0	pete
12-Oct-14	2	14:00		0	0	0	0	0	0	0	0	0	0	0	pete
12-Oct-14	2	14:00		0	0	0	0	0	0	0	0	0	0	0	pete
12-Oct-14	2		SW3	0	0	0	0	0	0	0	0	0	0	0	pete
13-Oct-14	1		PHFB	0	47	0	0	0	0	0	0	55	149	251	pete
13-Oct-14	1		SWFB	0	184	0	0	0	0	0	0	0	0	184	pete
13-Oct-14	1		PH1	5	0		0	0	0	0	0	0	0	10	pete
13-Oct-14	1		PH2	0	0	_	0	0	0	0	0	0	0	0	pete
13-Oct-14	1		PH3	0	0	0	0	0	0	0	0	0	0	0	pete
13-Oct-14	1		SW1	0	0	0	0	0	0	0	0	0	0	0	pete
13-Oct-14	1		SW2	0	0	0	0	0	0	0	0	0	0	0	pete
13-Oct-14	1		SW3	0	0	0	0	0	0	0	0	0	0	0	pete
13-Oct-14	2		PHFB	0	5	1	0	0	0	0	0	25	80	111	pete
13-Oct-14	2		SWFB	0	225	0	0	0	0	0	0	0	0	225	pete
13-Oct-14	2	14:00		0	0	0	0	0	0	0	0	0	0	0	pete
13-Oct-14	2	14:00		0	0	0	0	0	0	0	0	0	0	0	pete
13-Oct-14	2	14:00	_	0	0	0	0	0	0	0	0	0	0	0	pete
13-Oct-14	2	14:00		0	0	0	0	0	0	0	0	0	0	0	pete
13-Oct-14	2		SW2	0	0	_	0	0	0	0	0	0	0	0	pete
13-Oct-14	2		SW3	0	0		0	0	0	0	0	0	0	0	pete
14-Oct-14	1		PHFB	0	0		0	0	0	0	0	69	1001		pete
14-Oct-14	1	7:30	SWFB	0	440	0	0	0	0	0	0	24	31	495	pete

14-Oct-14	1	7:30	PH1	J 7	0	7	0	0	ol	0	ol	0	0	14	pete
14-Oct-14	1		PH2	0	0	0	0	0	Ö	0	0	0	0	0	pete
14-Oct-14	1		PH3	l 1	0	0	0	0	0	0	0	0	0	1	pete
14-Oct-14	1		SW1	0	0	4	0	0	0	0	0	0	0	4	pete
14-Oct-14	1	7:30	SW2	1	0	2	0	0	0	0	0	0	0	3	pete
14-Oct-14	1	7:30	SW3	0	0	0	0	0	0	0	0	0	0	0	pete
14-Oct-14	2	14:00	PHFB	0	0	0	0	0	0	0	0	0	0	0	pete
14-Oct-14	2	14:00	SWFB	0	0	0	0	0	0	0	0	0	0	0	pete
14-Oct-14	2	14:00	PH1	0	0	0	0	0	0	0	0	0	0	0	pete
14-Oct-14	2	14:00	PH2	0	0	0	0	0	0	0	0	0	0	0	pete
14-Oct-14	2	14:00	PH3	0	0	0	0	0	0	0	0	0	0	0	pete
14-Oct-14	2	14:00	SW1	0	0	0	0	0	0	0	0	0	0	0	pete
14-Oct-14	2	14:00	SW2	0	0	0	0	0	0	0	0	0	0	0	pete
14-Oct-14	2	14:00		0	0	0	0	0	0	0	0	0	0	0	pete
15-Oct-14	1	7:30	PHFB	0	0	0	0	0	0	0	0	0	134	134	DEK
15-Oct-14	1		SWFB	0	287	0	3	0	0	0	0	0	0	290	DEK
15-Oct-14	1	7:30	PH1	18	0	11	0	0	0	0	0	0	0	29	DEK
15-Oct-14	1		PH2	3	0	0	0	0	0	0	0	0	0	3	DEK
15-Oct-14	1		PH3	6	0	0	0	0	0	0	0	0	0	6	DEK
15-Oct-14	1	7:30	SW1	0	0	0	0	0	0	0	0	0	0	0	DEK
15-Oct-14	1	7:30	SW2	0	0	0	0	0	0	0	0	0	0	0	DEK
15-Oct-14	1		SW3	0	0	0	0	0	0	0	0	0	0	0	DEK
15-Oct-14	2		PHFB	0	185	0	0	0	0	0	0	0	0	185	Jim
15-Oct-14	2		SWFB	0	47	0	0	0	0	0	0	0	0	47	Jim
15-Oct-14	2	14:00		1	0	2	0	0	0	0	0	0	0	3	Jim
15-Oct-14	2	14:00		17	0	0	0	0	0	0	0	0	0	17	Jim
15-Oct-14	2	14:00		25	0	0	0	0	0	0	0	0	0	25	Jim
15-Oct-14	2	14:00		0	0	0	0	0	0	0	0	0	0	0	Jim
15-Oct-14	2	14:00		0	0	0	0	0	0	0	0	0	0	0	Jim
15-Oct-14	2	14:00		7	0	0	0	0	0	0	0	0	0	7	Jim
16-Oct-14	1		PHFB	0	89	0	0	0	0	0	0	0	61	150	DEK
16-Oct-14	1		SWFB	0	246	0	0	0	0	0	0	0	97	343	DEK
16-Oct-14	1		PH1	6	0	6	0	0	0	0	0	0	0	12	DEK
16-Oct-14	1		PH2	0	0	0	0	0	0	0	0	0	0	0	DEK
16-Oct-14	1		PH3	16	0	0	0	0	0	0	0	0	0	16	DEK
16-Oct-14	1		SW1	0	0	0	0	0	0	0	0	0	0	0	DEK
16-Oct-14	1		SW2	0	0	0	0	0	0	0	0	0	0	0	DEK
16-Oct-14	1		SW3	0	0	0	0	0	0	0	0	0	0	0	DEK
16-Oct-14	2		PHFB	0	110	0	0	0	0	0	0	0	0	110	Jim
16-Oct-14	2	14:00	SWFB	0	235	0	0	0	0	0	0	0	12	247	Jim

16-Oct-14 16-Oct-14 16-Oct-14 16-Oct-14 17-Oct-14 17-Oct-14 17-Oct-14 17-Oct-14 17-Oct-14 17-Oct-14 17-Oct-14 17-Oct-14 17-Oct-14 17-Oct-14 17-Oct-14	2 2 2 2 2 1 1 1 1 1 1 1 2 2 2	7:30 7:30 7:30 7:30 7:30 7:30 7:30	PH3 SW1 SW2 SW3 PHFB SWFB	6 0 0 0 0 0 15 0 2 0 0	0 0 0 0 43 289 0 0 0 0	0 0 0 0 0 0 7 0 0 0	0 0 0 23 12 2 0 0 0	0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0	0 0 0 0 0 137 0 0 0	9 0 0 23 192 291 22 0 2	Jim Jim Jim Jim DEK DEK DEK DEK DEK DEK DEK
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17-Oct-14 17-Oct-14 17-Oct-14	2 2 2	14:00		_	_	_	0	0	0	0	0	0	0	0	DEK
17-Oct-14 17-Oct-14	2 2		SWFB		7	0	0	0	0	0	0	0	125	132	Jim
17-Oct-14	2	14:00		0	210	0	0	0	0	0	0	0	0	210	Jim
	2		PH1	19	0	15	0	0	0	0	0	0	0	34	Jim
4-0 44		14:00	PH2	3	0	3	0	0	0	0	0	0	0	6	Jim
17-Oct-14	2	14:00	PH3	0	0	0	0	0	0	0	0	0	0	0	Jim
17-Oct-14	2	14:00	SW1	0	0	0	2	0	0	0	0	0	0	2	Jim
17-Oct-14	2	14:00	SW2	0	0	0	0	0	0	0	0	0	0	0	Jim
17-Oct-14	2	14:00	SW3	1	0	0	34	0	0	0	0	0	0	35	Jim
18-Oct-14	1	7:30	PHFB	0	0	0	14	0	0	0	0	0	138	152	DEK
18-Oct-14	1	7:30	SWFB	0	280	2	0	0	0	0	0	0	0	282	DEK
18-Oct-14	1	7:30	PH1	2	0	3	0	0	0	0	0	0	0	5	DEK
18-Oct-14	1	7:30	PH2	0	0	0	0	0	0	0	0	0	0	0	DEK
18-Oct-14	1	7:30	PH3	1	0	0	0	0	0	0	0	0	0	1	DEK
18-Oct-14	1		SW1	0	0	0	0	0	0	0	0	0	0	0	DEK
18-Oct-14	1	7:30	SW2	0	0	0	0	0	0	0	0	0	0	0	DEK
18-Oct-14	1		SW3	0	0	_	0	0	0	0	0	0	0	0	DEK
18-Oct-14	2		PHFB	_	182		0	0	0	0	0	0	0	182	Jim
18-Oct-14	2		SWFB	0	178	0	0	0	0	0	0	0	0	178	Jim
18-Oct-14	2	14:00	PH1	4	0	10	0	0	0	0	0	0	0	14	Jim
18-Oct-14	2	14:00	PH2	2	0	3	0	0	0	0	0	0	0	5	Jim
18-Oct-14	2	14:00	PH3	0	0	0	0	0	0	0	0	0	0	0	Jim
18-Oct-14	2	14:00	SW1	0	0	0	0	0	0	0	0	0	0	0	Jim
18-Oct-14	2	14:00		0	0	0	0	0	0	0	0	0	0	0	Jim
18-Oct-14	2	14:00	SW3	0	0	0	48	0	0	0	0	0	0	48	Jim

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John Day:

	Temp:		Secchi:		Fallbacks
Sun	64		5.0		
Mon	64		5.0		
Tues	64		5.0		
Wed	63		5.0		
Thur	63		5.0		
Fri	62		5.0		
Sat	62		5.0		
AVG:	63	AVG:	5.0	AVG	#DIV/0!
				MAX	#DIV/0!
				MIN	#DIV/0!
				•	

	NE1	NE2	S.Ent	SE1	N.Ent	JBS Diff	Bay1	Bay19
Sun	8.0	8.0	1.7	8.0	1.5	4.5	2.0	1.5
Sun	8.0	8.0	1.5	8.0	1.5	4.5	1.8	1.4
Mon	8.3	8.3	1.6	8.2	1.6	4.7	1.6	1.6
Mon	8.5	8.5	1.5	8.3	1.5	4.6	1.8	1.4
Tues	9.1	9.1	1.5	8.8	1.4	4.6	1.8	1.3
Tues	8.7	8.7	1.5	8.6	1.5	4.5	1.8	1.4
Wed	8.6	8.5	1.5	8.6	1.5	4.5	1.7	1.4
Wed	8.9	8.9	1.4	8.5	1.6	4.6	1.7	1.4
Thur	8.4	8.4	1.5	8.3	1.5	4.6	1.8	1.4
Thur	8.5	8.3	1.5	8.3	1.5	4.6	1.8	1.4
Fri	8.2	8.1	1.5	8.2	1.5	4.6	2.0	1.6
Fri	8.9	8.7	1.5	8.7	1.5	4.5	1.8	1.3
Sat	8.4	8.4	1.5	8.4	1.6	4.6	1.8	1.4
Sat	8.2	8.0	1.6	8.1	1.6	4.6	1.9	1.5
AVG:	8.5	8.4	1.5	8.4	1.5	4.6	1.8	1.4