## **FISHWAY STATUS REPORT - JOHN DAY DAM**

**Date:** 5/13/2023

**Inspection Period:** 5/7/2023 thru 5/13/2023

All JD Fishways are inspected twice per day during fish passage season, Mar. 1 - Nov. 30. Additional and frequent monitoring, of the PLC displays in SMF Fisheries Office, as necessary.



JD/WC Project-Fisheries

P.O. Box 823

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John Day Dam	Inspection OOC	Criteria Limit		Total Number of	Temperature: Secchi:	54.4 3.7									
			N	ORTH FISHW	/AY										
Exit differential	0	≤ 0.5′													
Exit Control weirs	0	High setting													
Count station differential	0	≤ 0.3'													
Entrance differential	0	1.0' - 2.0'	AVG (Ft.)	1.5											
	SOUTH FISHWAY														
Exit differential 0 ≤ 0.5'															
Exit Control weirs	0	Mid setting													
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 (Ft.)	1.2											
Entrance weir SE1	0	depth (≥ 8')	AVG (Ft.)	8.9											
Collection channel velocity	0	1.5 - 4 fps	AVG (Ft.)	2.89											
N. Entrance PH(Bay 19)differential	0	1.0' - 2.0'	AVG (Ft.)	1.6											
Entrance weir NE1	0	depth (≥ 8')	AVG (Ft.)	11.7											
Entrance weir NE2	0	depth (≥ 8')	AVG (Ft.)	12.1											
			JU	<b>VENILE PASS</b>	AGE										
Forebay/bypass conduit differential	0	4.0' - 5.0'	AVG (Ft.)	4.5											
Submersible traveling screens	0	visual inspect	next inspect	ion 5/22-5/25											
Turbine trashrack drawdown	0	<1.5', wkly													
Vert barrier screen drawdown	0	<1.2', wkly													
Spill volume	0	per FPP	Avg (kcfs)	221.3	Avg (%)	65.9									
Spill pattern	0	per FPP													
Turbine Unit Priority	0	per FPP													
Turbine 1% Efficiency	0	per FPP													

# **Fisheries Related Operations**

#### Smolt Monitoring Operations:

Smolt Monitoring Facility started the 2023 sampling season on April 3rd for condition monitoring only. From April 3 - June 15 condition sampling will occur 5 days a week (Monday-Friday) from approximately 0700-1300 or until the target of 100 fish of the predominant species has been reached. From June 16 - September 15 condition sampling will occur 3 days a week (Monday, Wednesday, Friday) from approximately 0700-1300 or until the target of 100 fish of the predominant species has been reached. High water temperature protocol goes into effect when water temperatures exceed 70F.

## Adult Ladder Operations:

NFL in criteria

SFL turbine 2 RTS 3/20 @ reduced RPMs (55 RPMs) to prolong the repairs

SFL turbine 3 still OOS (Philadelphia gear inspected on 2/22 and recommended FOOS - See 23JDA03) - Awaiting Funding

FOG's removed

## Project Operations:

Current outages: MU4 (ETR: 11/2/23), MU7 (ETR: 7/31/28), MU8 (ETR: 1/10/24), MU10 (ETR: 11/15/23), MU13 (ETR: 6/14/23) Spillbay Outages: #1-missing brake/motor (ETR Unknown), #6 and #10-operates in manual/local mode only (ETR: Unknown),

Weekly Average Tailwater TDG: 123.9

#### Maintenance:

## Calibration:

All gauges within the 0.3' criteria.

#### Bird Data:

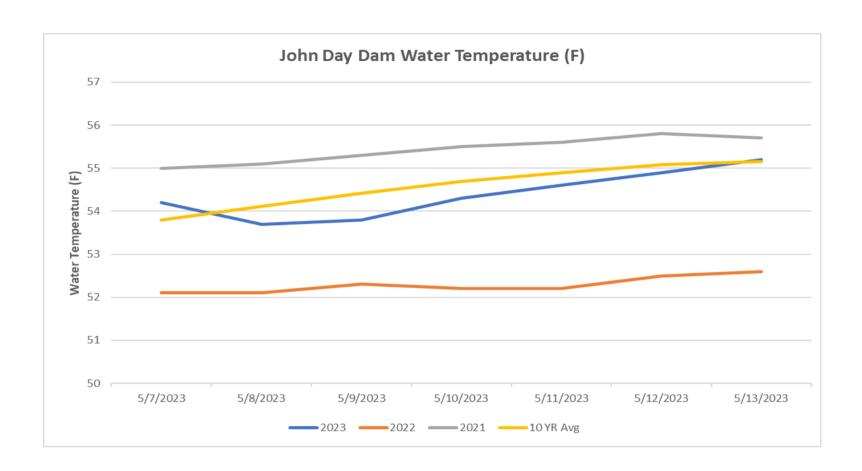
Grebe numbers are starting to decrease in the forebay, gull numbers are starting to increase, and cormorant sightings are rare.

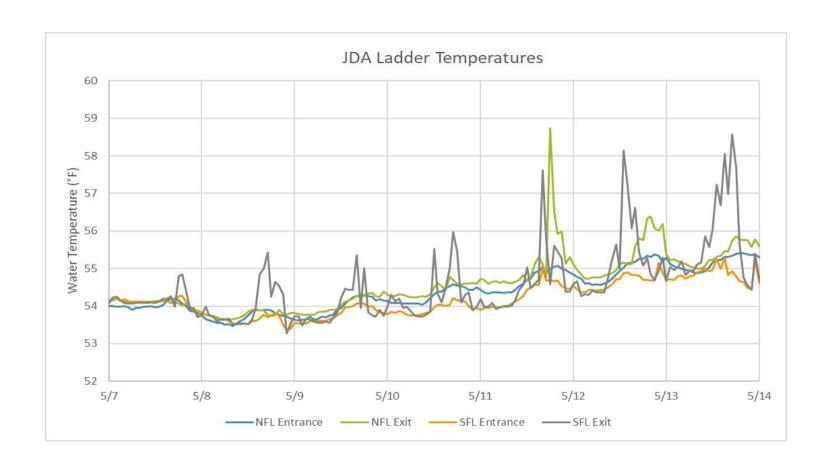
There are approximately 30-40 pelicans hanging around Preacher's Island with very few foraging observations in JDA bird counting zones.

11 of 125 avian lines down, in contracting phase for replacement of 9 lines from powerhouse roof.

#### Research:

Preperations for the 2023 Research Season are underway - No new research is scheduled at this time





# **JDA Collection Channel Velocity**

FPP Criteria: 1.5–4.0 feet per second (2 fps optimum)

Date	Measurement Location	Speed (ft/sec)	SFL Turbine RPMs (1,2,3)	Bay 19 TW (ft)
5/8/2023	Unit 4	3.04	55,55,0	163.4
5/8/2023	Unit 12	3.07	55,55,0	163.4
5/10/2023	Unit 4	3.02	55,55,0	163.1
5/10/2023	Unit 12	2.90	55,55,0	163.1
5/13/2023	Unit 4	2.70	55,55,0	161.9
5/13/2023	Unit 12	2.58	55,55,0	161.9

Average Weekly Velocity (ft/sec)	2.89

# **JOHN DAY WEEKLY AVERAGES**

		Soi	uth Fish Lad	der		NFL	JBS		Spill	
	SE1 (Ft)	S.Ent (Ft)	NE1 (Ft)	NE2 (Ft)	Bay19 (Ft)	N.Ent (Ft)	JBS Diff (Ft)	Spill Vol. (kcfs)	Spill (%)	# Spillbays
Sunday	9.2	1.2	11.8	12.4	1.9	1.5	4.5	229.9	67.9	19.0
Sunday	9.5	1.2	12.1	12.7	1.9	1.6	4.7	230.2	63.3	19.0
Monday	9.3	1.4	12.4	13.1	1.5	1.5	4.6	230.0	67.8	19.0
Monday	9.1	1.1	12.0	12.8	1.4	1.4	4.5	232.0	67.7	19.0
Tuesday	9.9	1.0	12.9	13.6	1.1	1.6	4.6	144.9	43.3	19.0
Tuesday	9.7	1.0	12.5	13.1	1.5	1.4	4.5	234.8	63.8	19.0
Wednesday	8.0	1.2	12.1	12.8	1.4	1.6	4.3	234.9	69.1	19.0
Wednesday	8.3	1.2	12.0	12.7	1.4	1.6	4.5	235.0	68.9	19.0
Thursday	8.5	1.3	13.0	13.6	1.3	1.7	4.6	240.2	68.7	19.0
Thursday	8.3	1.4	11.1	11.3	1.5	1.9	4.5	240.2	69.6	18.0
Friday	8.2	1.4	9.8	9.9	1.8	1.4	4.7	146.2	46.0	18.0
Friday	9.0	1.1	11.3	11.4	1.1	1.5	4.5	240.2	75.6	18.0
Saturday	8.5	1.3	9.9	10.1	1.9	1.2	4.5	229.5	78.9	18.0
Saturday	8.6	1.4	10.2	10.4	2.0	1.6	4.6	230.3	71.9	18.0
AVG:	8.9	1.2	11.7	12.1	1.6	1.5	4.5	221.3	65.9	18.6

	Temp (F)	Secchi (Ft)	Notes
Sunday	54.2	4.0	
Monday	53.7	4.0	
Tuesday	53.8	4.0	
Wednesday	54.3	3.5	
Thursday	54.6	3.5	
Friday	54.9	3.5	
Saturday	55.2	3.5	
		•	
AVG	54.4	3.7	



JDA Bird Counts: <u>5/7/23</u> to <u>5/13/23</u>

F(1): Forage AM survey F(2): Forage PM Survey NF(1): Non-Forage AM Survey NF(2): Non-Forage PM Survey

Date	Zone		Gul	lls			Cor	moran	t		Casp	ian ter	'n	\	White	Pelica	ın		Gr	ebe		Total
Date	Zone	F(1)	F(2)	NF(1)	NF(2)	F(1)	F(2)	NF(1)	NF(2)	F(1)	F(2)	NF(1)	NF(2)	F(1)	F(2)	NF(1)	NF(2)	F(1)	F(2)	NF(1)	NF(2)	TOLAT
7-May	PHFB	0	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	32	30	0	0	82
7-May	SWFB	1	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	31
7-May	PH1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7-May	PH2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7-May		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7-May		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7-May		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7-May		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Avg/Sur		26		(	)		0		0		)	C	)	(	0		)	3	1	(	0	57
8-May		6	0	0	26	0	0	0	4	0	0	0	0	0	0	0	0	30	22	0	0	88
8-May		15	0	0	37	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	52
8-May		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8-May		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8-May		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8-May		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8-May		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8-May		2	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	22
Avg/Sur	_	22			2		0		2	(	_	C			0		)		6		0	81
9-May		0	0	0	6	0	1	0	0	0	0	0	0	0	0	0	0	35	23	0	0	65
9-May		10	48	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	59
9-May		0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
9-May		0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
9-May		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9-May		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9-May		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9-May		5	8	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	17
Avg/Sur		37			3		1	_	0		)	C			0	-	2	2	9		0	72
10-May		0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	25	15	0	0	42
10-May		0	38	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	41
10-May		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10-May		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10-May		1	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
10-May		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10-May		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10-May		9	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	21
Avg/Sur	vey	32			)		1		2		J	C	1		0		)	2	.0		0	54

JDA Bird Counts: <u>5/7/23</u> <u>to</u> <u>5/13/23</u>

F(1): Forage AM survey F(2): Forage PM Survey NF(1): Non-Forage AM Survey NF(2): Non-Forage PM Survey

Date	Zone		Gul	ls			Cor	moran	t		Casp	ian ter	'n	\	Vhite	Pelica	ın		Total			
Date	Zone	F(1)	F(2)	NF(1)	NF(2)	F(1)	F(2)	NF(1)	NF(2)	F(1)	F(2)	NF(1)	NF(2)	F(1)	F(2)	NF(1)	NF(2)	F(1)	F(2)	NF(1)	NF(2)	Total
11-May	PHFB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20	16	0	0	36
11-May	SWFB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11-May	PH1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11-May	PH2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11-May	PH3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11-May	SW1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11-May	SW2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11-May	SW3	17	35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	52
Avg/Sur	-	<b>26</b>		(	)		0		0		0	C	)		)	•	)	1	.8		0	44
12-May	PHFB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	19	19	0	0	38
12-May	SWFB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12-May	PH1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12-May	PH2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12-May	PH3	12	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20
12-May	SW1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12-May		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12-May		12	27	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	42
Avg/Sur		30		(	)		0		0		0	C	)		2	(	)	1	.9	(	0	50
13-May	PHFB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14	12	0	0	26
13-May		0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
13-May		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13-May		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13-May		18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	18
13-May		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13-May		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13-May		0	18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	18
Avg/Sur	vey	19			)		0		0		0	C	)		)		)	1	.3		0	32

Totals	Gul	lls	Cor	morant	Casp	oian tern	White	Pelican	Gr	Total	
	F	NF	F	NF	F	NF	F	NF	F	NF	Total
Weekly Total	380	69	3	7	0	0	3	4	312	0	778
Avg/Survey	27	5	0	1	0	0	0	0	22	0	56

