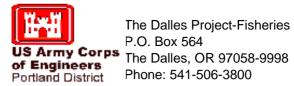
The Dalles Dam Fishway Status Report

Date: 4/13/2014 Inspection Period: 4/06/2014 to 4/12/2014

THE DALLES DAM



The Dalles Project-Fisheries P.O. Box 564

Fishways are ins	spected twice	dailv plus d	one SCADA	inspection

Fishways are inspected twice daily plus one SCADA inspection The Dallac Dans Inspections Criteria Total Number of Inspections: 21 Temperature: F												
The Dalles Dam	Inspections	Criteria	Total Nur	nber of Ins	pections:	21	Temperature:		F			
The Dailes Daili	Out of Criteria	Limit	Comments	3			Secchi:	3.9 feet				
			NORT	H FISHWA	Y							
Exit differential	0	≤ 0.5'										
Count station differential	0	≤ 0.3'										
Weir crest depth	0	1.0' ± 0.1'										
Entrance differential	0	1.0' - 2.0'										
Entrance weir N1	0	depth (≥ 8')										
Entrance weir N2		Closed										
PUD Intake differential	0	≤ 0.5′				il spill st	tarted on April 1	0				
			EAS	Γ FISHWAY	•							
Exit differential	0	≤ 0.5′										
Removable weirs 154-157	0	Per forebay	Auto adjust	s 1' increme	ents.							
Weir 158-159 differential	0	1.0' ± 0.1'										
Count station differential	0	≤ 0.3'										
Weir crest depth	0	1.0' ± 0.1'										
Junction pool weir JP6	0	depth (≥ 7')	Manually a	djusted as r	needed.							
East entrance differential	0	1.0' - 2.0'	Average	1.5		Daily	differentials & w	eir depths, see	AVGS tab.			
Entrance weir E1	0	No criteria	Average	2.3		М	anually adjusted.					
Entrance weir E2	0	depth (≥ 8')	Average	12.9								
Entrance weir E3	0	depth (≥ 8')	Average	12.9								
Collection channel velocity	0	1.5 - 4 fps	Average	2.7								
Transportation channel velocity	0	1.5 - 4 fps	Average	3.3								
North channel velocity	0	1.5 - 4 fps	Average	2.2								
South channel velocity	0	1.5 - 4 fps	Average	3.9								
West entrance differential	0	1.0' - 2.0'	Average	1.4								
Entrance weir W1	0	depth (≥ 8')	Average	9.5								
Entrance weir W2	0	depth (≥ 8')	Average	9.5								
Entrance weir W3	closed	No criteria	Average	closed								
South entrance differential	0	1.0' - 2.0'	Average	1.5								
Entrance weir S1	0	depth (≥ 8')	Average	10.3								
Entrance weir S2	0	depth (≥ 8')	Average	10.2								
JUVENILE PASSAGE												
Sluicegate operation	3	1, 8, 18	Gate 1-1 ir	nadverently	left closed. (Corrected	d.					
Turbine trashrack drawdown	0	<1.5', wkly										
Spill volume	0	40%	Spill for juv	enile passa	ge started A _l	pr 10.						
Spill Pattern	0											
Turbine Unit Priority	0	per FPP	West to ea	st block pric	rity started A	\pr 1.						
Turbine 1% Efficiency	0	per FPP										

OTHER ISSUES:

Birds/Sea lions:

Bird observation data collected once daily. There are very few birds around the project. See avian zones map and distribution details. Bird observation data collection changed Apr1. RNT website will no longer be used. Data with range input into avian zone map tab.

Operations:

Entrance weir and channel/tailwater calibration checked Apr 7. All within criteria limits.

Current Outages:

Turbine MU5 out of service 4/7/14 to 4/10/14 for Annual

Transformer TO4 out of service 4/7/14 to 4/8/14 for Tap Changer Inspection and test

Maintenance:

Work to start on replacement weir 158/159. Design changes; 3 to 2 leafs, d/s skin plate, plastic wheels. Changes approved through FPOM Apr10. North fishway pump motor replacement in progress for next winter dewatering.

Work to start rebuilding failed east fishway collection channel dewatering pump, pending staff availability.

Long term repair plans funding dependent; Upgrade east exit weirs 154-157, stabilize north ladder rock walls, remove collection channel diffusers, replace all entrance weir wheels with plastic composite wheels and repair/modify all east fishway dewatering pumps.

Fish related but non-fish funded items; spillway evaluation, spillway crane rehab, spillgate 10/11 wire rope replacement, update fish unit reliability assessment, planning upgrade fish unit breakers, Fish unit transformer replacement.

All spillway items on Critical Infrastructure list and Unfunded Requirement list

Studies:

PIT - PSMFC monitoring antennas at count stations. 100% efficiency on last report.

EFL - Plan 10' dia. pipe through dam, under roadway and into AWS conduit at junction pool. Starting Plans and Specs. Construction winter 2015.

PUD - FERC license modification request submitted for additional north turbine. Provided comments through PM. Coordinating test digs under east ladder with fish managers, due to work within 50' Fish Passage Plan boundary limit.

Lamprey - Skin plate for lamprey improvement to new east ladder 159 weir construction. Planning for tribal lamprey collection from count stations.

Research/Contractors:

PSMFC weekly samples continue at PUD. Some debris concern on intake addressed through frequent raking.

Normandeau fish counting started 4/1.

See PSMFC PUD weekly report for details. http://www.fpc.org/documents/weekrprt/wr2014/WR14-01.pdf

University of Idaho maintaining antennas.

Removal last set of 3 derelict Vertical Barrier Screens from MU 12 gatewell slot scheduled week of Aug11. Coordination in progress.

WDFW to conduct hook and line removals of predatory northern pikeminnow from the BRZ adjacent to the project.

Research approval letters forwarded for; ODFW forebay pikeminnow survey, USGS total dissolved gas monitoring,

Yakama Nation for adult lamprey collection and PSMFC monitoring and maintaining thin walled PIT tag antennas.

Approved by; Ron D. Twiner Operation Project Manager The Dalles Dam

DART The Dalles Adult Ladders Daily Usage with Spill Percent

	Chinook			Jack Chinook			Steelhead				Steelhead Wild				Sockeye					
Date		Left		Right		eft	_	Right		ft	`	ght	Le		Rig			eft		ght
	Lad	lder	Lad	der	Lad	lder	Lad	der	Lad	der	Lad	lder	Lade	der	Lad	der	Lac	dder	Lac	lder
	Pct	#	Pct	#	Pct	#	Pct	#	Pct	#	Pct	#	Pct	#	Pct	#	Pct	#	Pct	#
4/6	79.2	38.0	20.8	10.0	100.0	2.0	0.0	0.0	70.4	19.0	29.6	8.0	66.7	8.0	33.3	4.0		0.0		0.0
4/7	97.7	43.0	2.3	1.0		0.0		0.0	90.0	18.0	10.0	2.0	88.9	8.0	11.1	1.0		0.0		0.0
4/8	97.6	80.0	2.4	2.0		0.0		0.0	72.7	16.0	27.3	6.0	60.0	6.0	40.0	4.0		0.0		0.0
4/9	100.0	29.0	0.0	0.0		0.0		0.0	93.3	14.0	6.7	1.0	85.7	6.0	14.3	1.0		0.0		0.0
4/10	100.0	46.0	0.0	0.0		0.0		0.0	100.0	24.0	0.0	0.0	100.0	8.0	0.0	0.0		0.0		0.0
4/11	100.0	106.0	0.0	0.0	100.0	1.0	0.0	0.0	97.6	40.0	2.4	1.0	96.3	26.0	3.7	1.0		0.0		0.0
4/12	100.0	48.0	0.0	0.0	100.0	1.0	0.0	0.0	100.0	34.0	0.0	0.0	100.0	23.0	0.0	0.0		0.0		0.0
Date		Chin	ook		,	Jack C	hinook			Steel	head		s	teelhea	ad Wild			Soci	кеуе	
YTD	Lad	eft Ider ct	Rig Lad Po	der	Lad	eft Ider ct	Rig Lad Po	der	Le Lad Po	der	Lad	ght Ider ct	Le Lade Po	der	Rig Lad Po	der	Lac	eft dder Oct	Lac	ght Ider ct
	96	8.6	3.	2	10	0.0	0.	0	90	.2	9.	.8	11.	.5	0.	0	0	0.0	0	.0

NOTES:

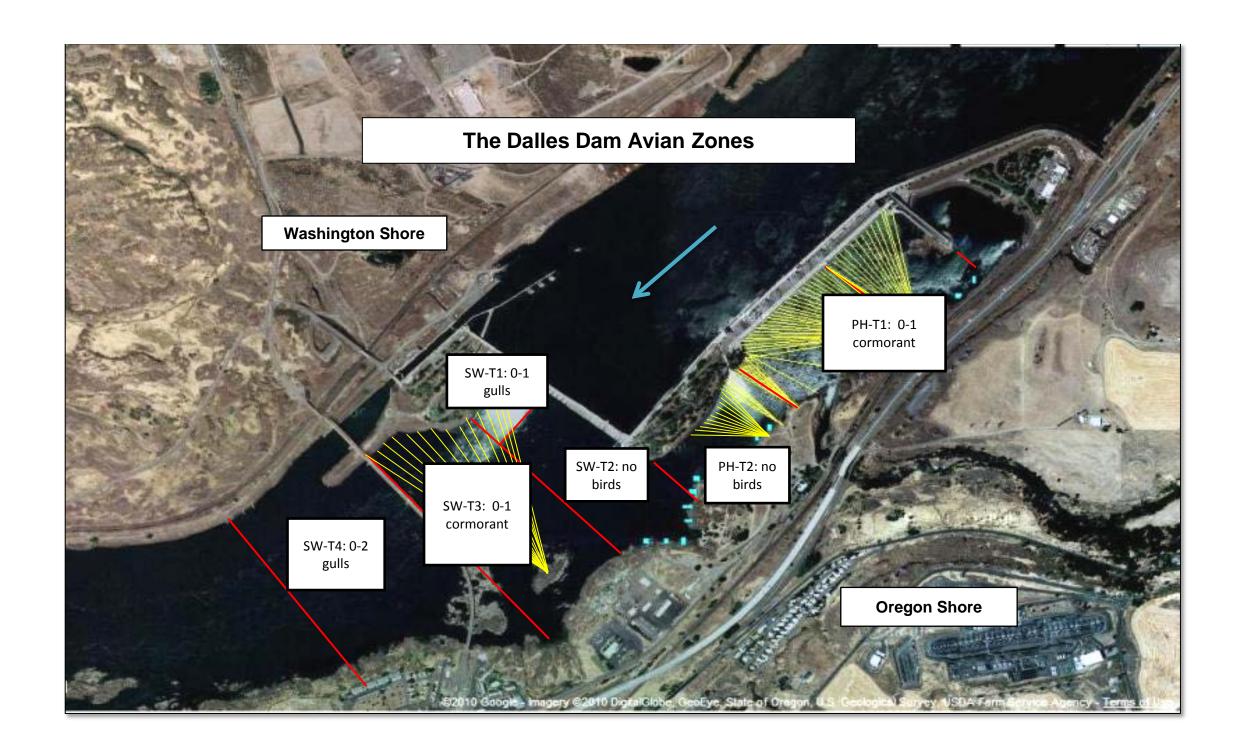
f either the Right Ladder or Left Ladder species count is: negative or null for the day.

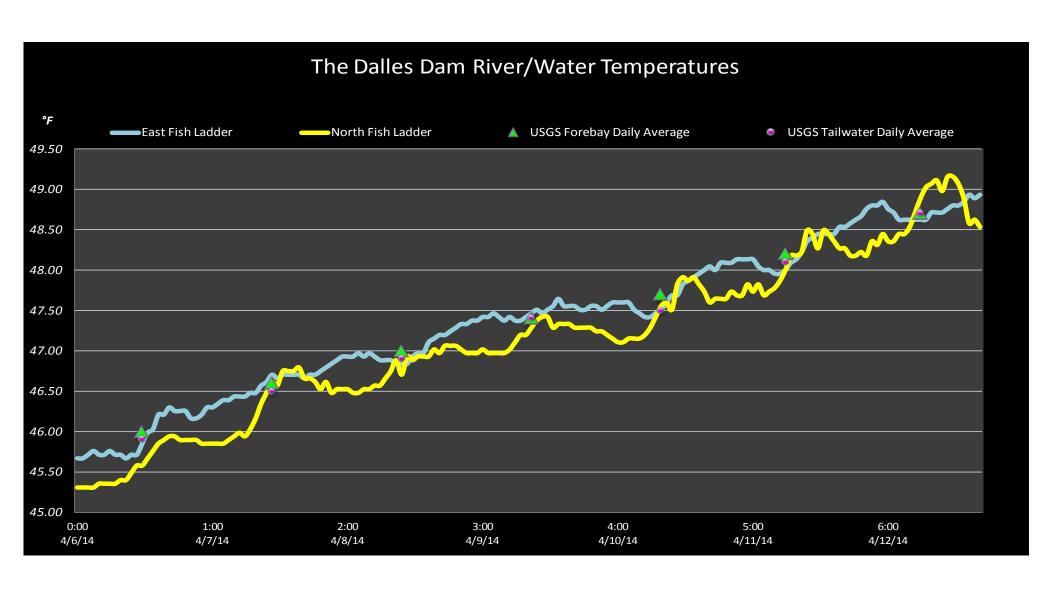
side of the river when facing downstream.

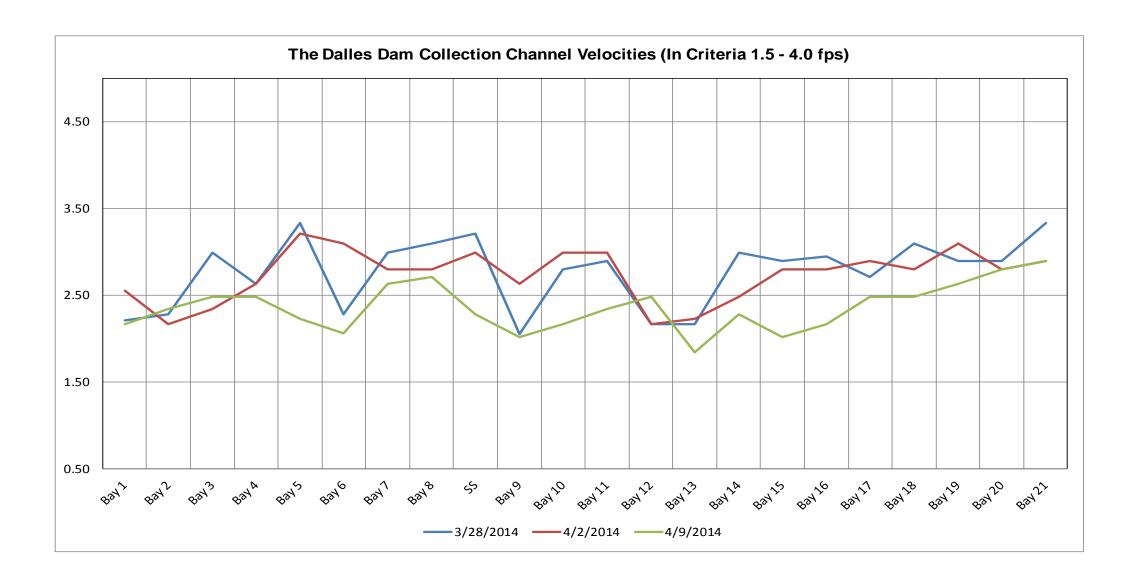
of U.S. Army Corps of Engineers

and Outflow

	Со	ho			Jack	Coho)		Lam	Spill	Outflo w		
L	Left Right		Left Rig			ight	t Left			ight	Pct	(kcfs)	
La	dder			Lac	dder	La	dder	La	dder	Ladder		[Right]	
Pct	#	Pct	#	Pct	#	Pct	#	Pct	#	Pct	#	-	
	0.0		0.0		0.0		0.0		0.0		0.0	0.0	211.4
	0.0		0.0		0.0		0.0		0.0		0.0	0.0	226.0
	0.0		0.0		0.0		0.0		0.0		0.0	10.3	226.1
	0.0		0.0		0.0		0.0		0.0		0.0	35.6	269.1
	0.0		0.0		0.0		0.0		0.0		0.0	40.40	248.0
	0.0		0.0		0.0		0.0		0.0		0.0	39.9	271.8
	0.0		0.0		0.0		0.0		0.0		0.0	39.9	284.8
	Co	hο			Jack	Coho			l am	prey		Spill	Outflo
		110			oack	Oone			Lam	рісу		Pct	W
	.eft	Rig		_	eft		ight		.eft		ight		
	dder	Lad			dder		dder		dder		dder		
	oct	Po			ct		Pct .		Pct .	_	oct .		
(0.0	0.	0	0	.0	(0.0		0.0	(0.0		







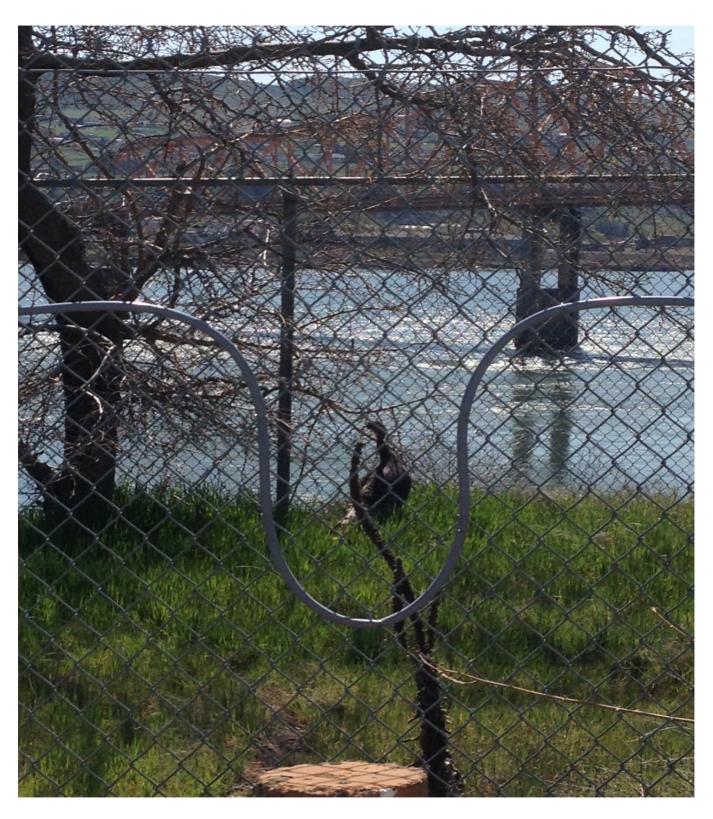
Temp:	_	Secchi:
46.0	SUN	4.0
46.6	MON	4.0
47.0	TUES	4.0
47.4	WED	4.0
47.7	THUR	4.0
48.2	FRI	3.5
48.7	SAT	3.5
47.4	AVG:	3.9

AVG:

The Dalles Dam Daily Readings and Averages for Temperatures, Secchi, Entrances, and Spill

= out of criteria

	North Fish	Ladder 💮	East Fish Ladder													
	North Er	ntrance		Eas	st Entrance)			West Entrance				South Entrance			
Date:	Differential	N1 Depth	Differential	E1 Depth	E2 Depth	E3 Depth	JP 6	Differential	W1 Depth	W2 Depth	W3 Depth	Differential	S1 Depth	S2 Depth		
			1.3	1.0	12.9	12.9		1.5	10.1	10.1		1.6	10.5	10.5		
4/6/14	1.3	10.0	1.4	1.1	12.9	12.8	13.1	1.5	9.9	9.9		1.6	10.4	10.5		
	1.3	9.9	1.3	1.0	12.9	12.9	14.4	1.7	10.0	10.1		1.7	10.4	10.5	0	
			1.5	1.3	13.2	13.0		1.3	9.7	9.6		1.4	10.6	10.5	n	
4/7/14	1.4	9.8	1.5	1.4	13.0	12.9	11.7	1.4	9.6	9.5		1.5	10.5	10.4		
	1.4	8.0	1.3	1.1	13.0	13.0	11.5	1.4	9.0	9.0		1.6	10.5	10.4	S	
			1.4	2.1	13.1	13.1		1.5	9.5	9.6		1.6	10.1	10.0		
4/8/14	1.3	9.8	1.6	0.4	13.0	13.0	11.2	1.1	9.6	9.5	С	1.3	10.8	10.7	е	
	1.3	9.8	1.4	2.0	13.0	13.0	12.0	1.4	9.4	9.5		1.6	9.9	10.0	a	
			1.7	2.0	12.9	13.0		1.5	9.4	9.4		1.5	10.0	10.1	1	
4/9/14	1.4	9.8	1.6	2.0	13.0	13.1	12.0	1.4	9.6	9.6	0	1.5	10.0	10.1		
	1.4	9.8	1.4	3.0	13.0	13.1	12.1	1.4	9.6	9.7	S	1.6	10.0	9.9		
			1.4	3.1	13.0	13.1	12.7	1.5	9.4	9.4	е	1.4	10.0	9.9		
	1.3	10.1	1.6	2.9	13.0	13.0	12.5	1.5	9.4	9.4	d	1.4	10.0	10.0	40.6	
	1.3	10.0	1.4	3.2	13.1	13.0	12.6	1.4	9.5	9.5	u	1.4	10.0	10.0	40.2	
			1.6	3.5	13.0	13.1		1.5	9.7	9.6		1.3	10.1	10.1		
4/11/14	1.4	9.9	1.4	3.5	13.0	12.9	14.2	1.5	9.5	9.4		1.4	9.9	9.9	40.1	
	1.4	10.0	1.6	2.9	13.1	13.1	12.3	1.5	9.5	9.5		1.4	10.1	10.0	39.9	
			1.9	2.4	12.1	12.1		1.5	9.5	9.6		1.3	10.8	10.1		
4/12/14	1.4	9.9	1.9	2.5	11.9	12.0	12.0	1.5	9.6	9.6		1.4	10.8	10.1	39.9	
	1.4	10.0	1.5	6.2	12.4	11.9	11.5	1.4	9.0	9.0		1.4	10.3	10.4	40.7	
AVG:	1.4	9.8	1.5	2.3	12.9	12.9	12.4	1.4	9.5	9.5		1.5	10.3	10.2	40.2	



This turkey is safe within project fence this hunting season. No hazing required.