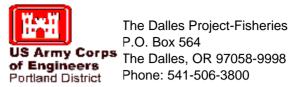
FISHWAY STATUS REPORT

Date: 5/6/2013

Inspection Period: 4/28 to 5/4/2013

THE DALLES DAM



The Dalles Project-Fisheries

P.O. Box 564

Fishways are inspected twice daily. Additional daily monitoring done via automation system in fisheries office.

The Dalles Dam	Inspections	Criteria	Total Number of Inspections: 18	Temperature: #DIV/0! F
	Out of Criteria	Limit	Comments	Secchi: 4.4 Ft.
NORTH FISHWAY				
Exit differential	0	≤ 0.5′		
Count station differential	0	≤ 0.3′	Window cleaned Apr. 29.	
Weir crest depth	0	1.0' ± 0.1'	·	
Entrance differential	0	1.0' - 2.0'	Average 1.3 Daily diffe	erentials & weir depths, see AVGS tab.
Entrance weir N1	0	depth (≥ 8')		•
Entrance weir N2		Closed	Bulkhead installed	
PUD Intake differential	0	≤ 0.5′		
EAST FISHWAY				
Exit differential	0	≤ 0.5′		
Removable weirs 154-157	0	Per forebay	Auto adjusts 1' increments.	
Weir 158-159 differential	0	1.0' ± 0.1'		
Count station differential	0	≤ 0.3′	Window cleaned Apr 29; count station pick	eted leads raked May 2.
Weir crest depth	0	1.0' ± 0.1'		·
Junction pool weir JP6	0	depth (≥ 7')	Manually adjusted as needed.	
East entrance differential	0	1.0' - 2.0'	Average 1.6 Daily diffe	erentials & weir depths, see AVGS tab.
Entrance weir E1	0	No criteria	Average 13.8 Manually	adjusted.
Entrance weir E2	0	depth (≥ 8')	Average 13.8	
Entrance weir E3	0	depth (≥ 8')	Average 13.8	
Collection channel velocity	0	1.5 - 4 fps	Average 2.6 See Velo	cities tab for more complete information.
Transportation channel velocity	0	1.5 - 4 fps	Average 2.2	
North channel velocity	0	1.5 - 4 fps	Average 2.4	
South channel velocity	0	1.5 - 4 fps		
West entrance differential	1	1.0' - 2.0'		ed W3/Opened W1. Refer to comments.
Entrance weir W1			ů.	weir W1 installed May 1.
Entrance weir W2	0	depth (≥ 8')		
Entrance weir W3	0	depth (<u>></u> 8")		
South entrance differential	0	1.0' - 2.0'	<u> </u>	erentials & weir depths, see AVGS tab.
Entrance weir S1	0	depth (≥ 8')	ž ,	adjusted.
Entrance weir S2	0	depth (≥ 8')	Average 8.3	
JUVENILE PASSAGE				
Sluicegate operation	0	MU 1, 8, 18		
Turbine trashrack drawdown	0		Not completed.	
Spill volume	0	40%, 24hr		
Spill Pattern	0	per FPP	Spill cap	100 KCFS.
Turbine Unit Priority	0	per FPP		
Turbine 1% Efficiency	0	per FPP		

OTHER ISSUES:

THE DALLES

Birds/Sea lions:

Bird observation data collected twice daily. Gull numbers high below spillway. See Avian tab for details. USDA started hazing operations Apr 16. Two separate sea lion sightings by dam anglers May 1; one with salmon near the west entrance. USDA hazing sea lions on request.

Operations:

Fish ways are operating in accordance to the Fish Passage Plan (FPP).

Current Outages: See Fish Unit Outages Tab

Main Unit 15, 16, and T8 forced out of service due to transformer oil problems. Return to service Aug. 8.

Main Unit 5 out of service Apr. 4 to May 9 for digital governor install and annual maintenance.

Main Unit 6 out of service Apr 4 to May 30 for digital governor install and annual maintenance.

Main Unit 21 out of service Apr 29 to June 6 for five year overhaul, as builts, gen heat, heat exchanger, and cavitation.

Main Unit 21 out of service for overhaul Apr 29. Tailwater bulkhead sill for MU21 is in close proximity of the east fishway entrance flow.

Fish Unit 1 forced out of service at 0713 hrs. May 1 due to turbine pump failure; returned to service same day at 0735 hrs.

Fish Units reduced to half speed and east fishladder entrance closed 1200-1300hr on Apr 29 to reduce flow debris for Unit 21 bulkhead installation Operation permissible in Fish Passage Plan, but also approved by FPOM team.

New avian line attachment pole constructed and to be installed to replace the failing one at west powerhouse. This pole covers west half powerhouse.

Entrance weir W1 installed May 1 with new plastic composite wheels. Plan to test through remainder of passage season. If successful these will be used on remaining weirs to reduce guide wear. W3 was closed per Fish Passage Plan.

North auxiliary water (PUD) intake rake crane out for hydraulic repair. Return unknown, pending budget status. Raked by mobile crane as needed. Hungry goats were used for four days to remove vegetation along the north fish ladder with marginal results. The goats will be used again in Sept in order to complete the contract; after which a determination will be made on cost vs. benefits.

Studies:

PIT - Temporary Thin Wall PIT tag Antenna continues to work successfully. Troubleshooting for interference on north count station.

EFL - Fisheries continues to work with the East Fish Ladder backup PDT to develop a scope of work. The Project requested to include replacement of fishlock 42" valve as best cost benefit and to include removal of all old unneeded fish lock equipment. Follow up meeting to discuss projects requested item week of May 6.

PUD freedom turbine planning underway. Project support as needed. Relocation of osprey platform planned for next fall.

Lamprey - Collecting turbine cooling water strainer juvenile lamprey data as available when strainer is opened. No data this week.

Fisheries involved with the Lamprey Improvements PDT to develop minor modifications to be completed this winter.

Research/Contractors:

Normandeau site visit Apr 30 to conduct routine and mandatory QA/QC fish counts.

Yakama and Umatilla tribes to collect lamprey via traps from count stations mid summer. Lamprey used in restocking efforts. Coordination underway.

USDA avian hazing primarily from downstream navlock peninsula to cover spillway. Also occasion pinneped hazing at west entrance.

WDFW Pike minnow Dam Angling started May 1. The 2012 results report pending.

PSMFC fish sampling of the PUD juvenile bypass; there were 30 Chinook sub yearling fry this week, one was a mort.

Northern Pike Minnow Management Program ODFW evaluation: no sampling this week.

Project maintenance to remove I-beams at forebay pier noses. Date to be determined. Requires CRFM funding.

University of Idaho adult radio telemetry new antennas both fish ladders completed and operating.

Normandeau fish counters continuing 16hr daily fish counting at north and east count stations.

Approved by;

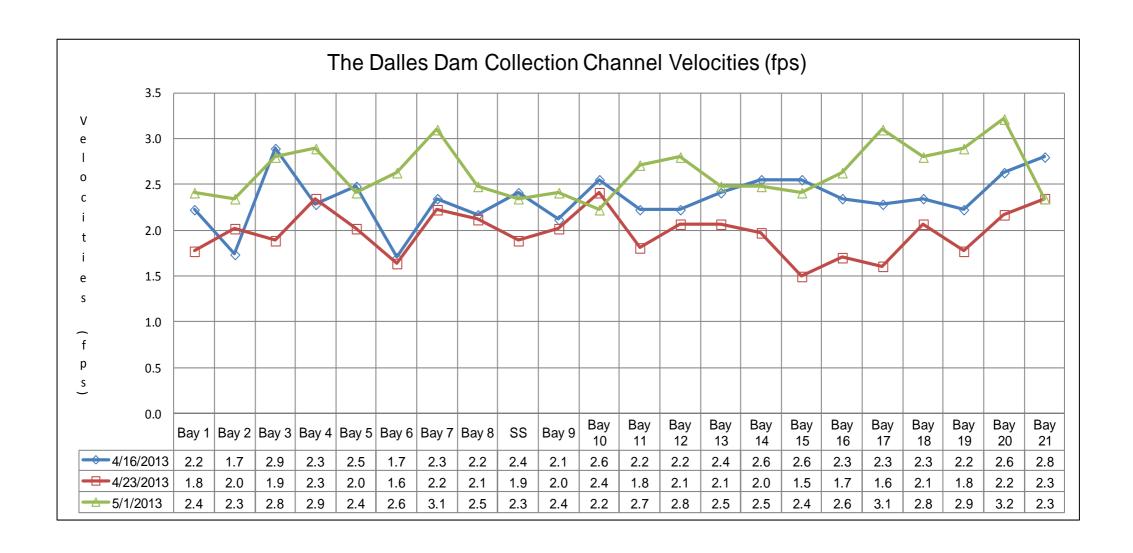
Ron D. Twiner

Operation Project Manager

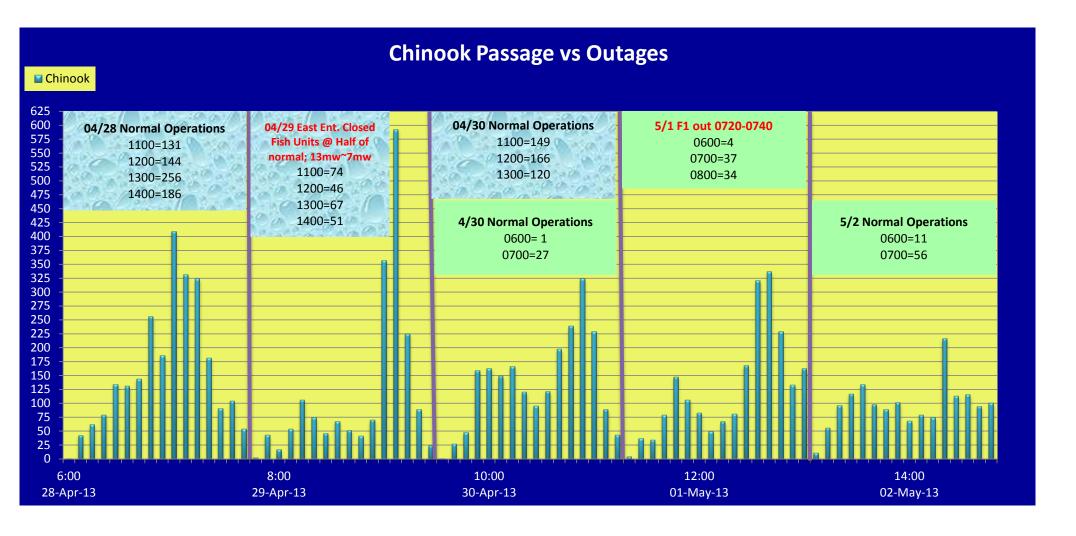
The Dalles Dam

The Dalles Adult Ladders Daily Usage with Spill Percent and Outflow

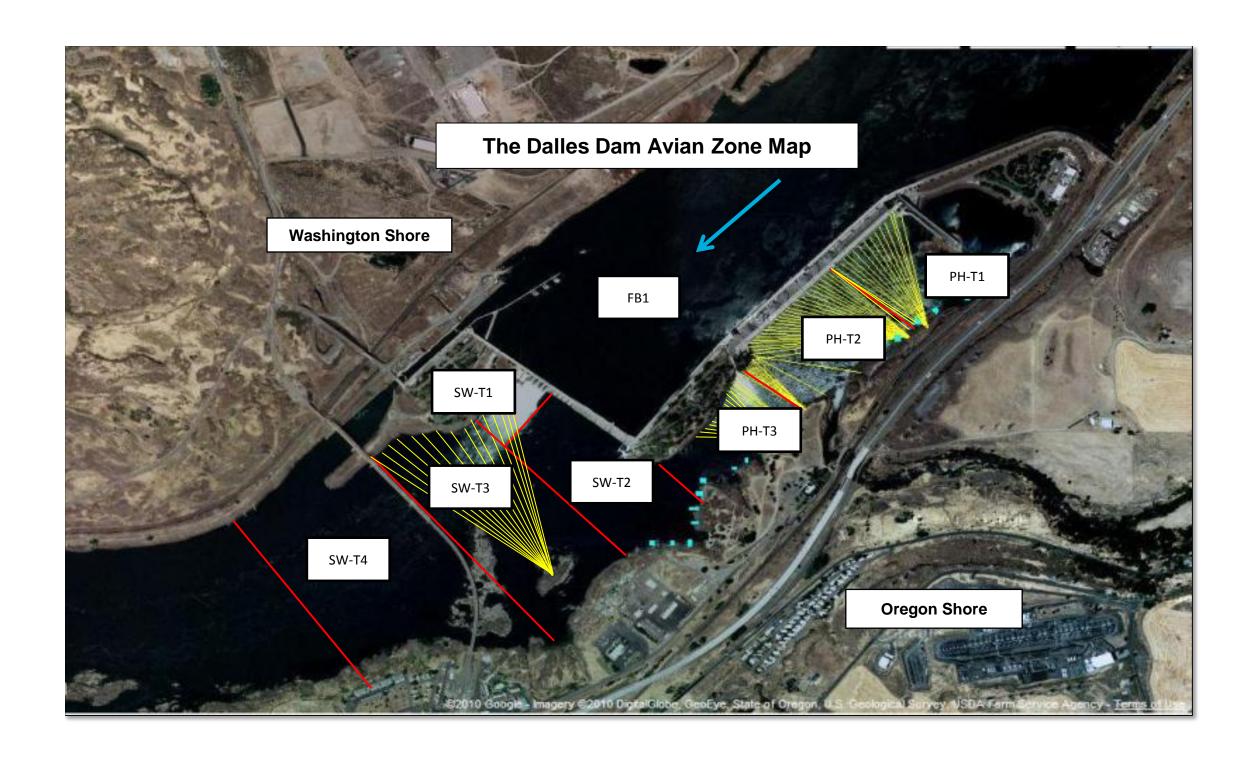
		Chir	ook		Jack Chinook				Steelhead				Steelhead Wild			ild	Sockeye			Coho				Jack Coho			Lamprey			еу	Spill	Outflow	
Date	L	eft	eft Right Left Right Left Right Left		Left Right Left			Right		Left Rig		Right	Left		Right		Left		F	Right	Pct	(kcfs)											
Date	Ladder		Ladder		Ladder		Ladder		Ladder		Ladder		Ladder		Ladder		Ladder		Ladder		Ladder		Ladder	La	Ladder		Ladder		Ladder		adder	[Right]	
	Pct	#	Pct	#	Pct	#	Pct	#	Pct	#	Pct	#	Pct	#	Pct	#	Pct	#	Pct	#	Pct	#	Pct #	# Po	t #	Pct	#	Pc	t #	Po	ct #		
4/26/13	82	1428	19	324	89	55	11	7	88	7	12.5	1	86	6	14	1		0		0		0	(0	C)	()	()	0	37.4	203.3
4/27/13	74	1654	26	584	95	86	5.5	5	83	10	16.7	2	100	6	0	0		0		0		0	(0	C)	()	()	0	36.9	206.6
4/28/13	75	2792	25	911	87	245	13	36	92	11	8.3	1	100	4	0	0		0		0		0	(0	C)	C)	()	0	39.9	202.5
4/29/13	57	1930	43	1476	82	300	18	64	82	9	18.2	2	50	1	50	1		0		0		0	(0	C)	()	C)	0	39.9	203.6
4/30/13	83	2344	18	497	93	260	7.1	20	100	8	0	0	100	4	0	0		0		0		0	(0	C)	C)	C)	0	39.6	210.1
5/1/13	93	2185	7.4	175	99	259	1.5	4	100	5	0	0		0		0		0		0		0	(0	C)	()	()	0	40	227.5
5/2/13	86	1590	14	251	97	286	3.4	10	100	2	0	0		0		0		0		0		0	(0	C)	()	C)	0	40	210.2
Date		Chir	ook		Ja	ck Ch	inook		Steelhead			Steelhead		ad Wild		So	cke	eye			Со	oho		Jack	Coh	0		Lan	npre	еу	Spill Pct	Outflow	
	L	eft	R	ight	Le	eft	Righ	nt	Le	ft	Rigl	nt	Le	ft	Rig	ht	Left		Rig	ht	Left		Right		Left	Ri	ght	L	.eft	F	Right		
YTD	Lac	dder	Ladder		Ladder		Ladder Pct	ler	Ladder Pct		Lado	ler	Lade	der	Lado	der	Ladde	r I	Lado	der	Ladde	er	Ladder	La	adder	Ladde		La	dder	La	adder		
טוז	P	Pct		Pct Pc		Pct		t			Pct		Po	t	Рс	t	Pct	Р		Pct	Pct		Pct		Pct		Pct		Pct		Pct		
	7	6.7	2	3.3	91	1.1	8.9)	89.	7	10.	3	91.	3	8.7	7	0		0		0		0		0		0		0		0		

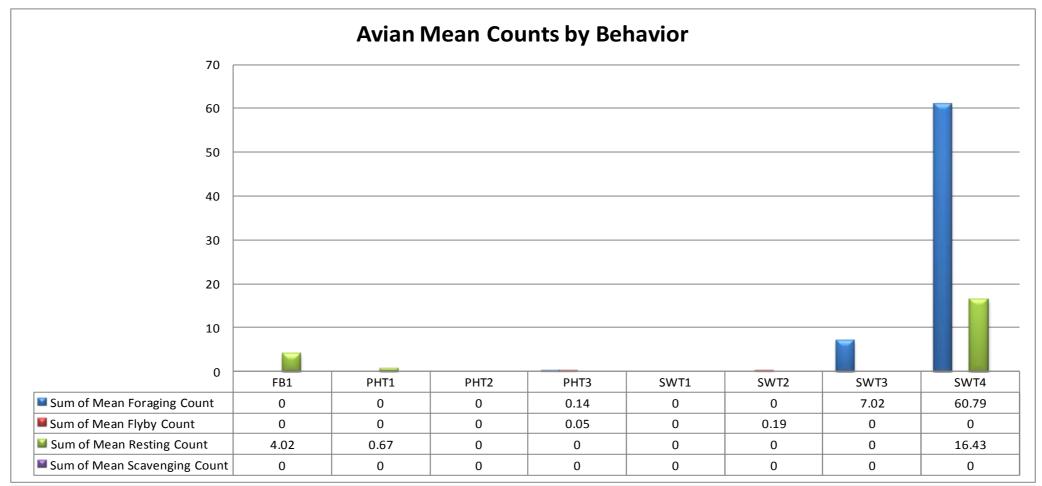


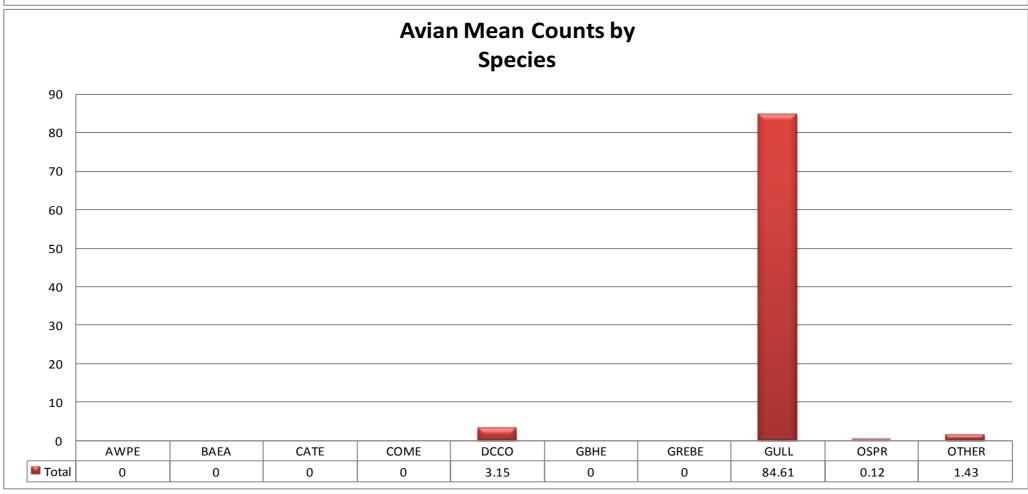




Problems with data logger software. Will include in next week report.







American White Pelican - (AWPE); Bald Eagle - (BAEA); Caspian Tern - (CATE); Common Merganser - (COME)

Double Crested Cormorant - (DCCO); Great Blue Heron - (GBHE); Grebe - (GREBE);

Gull - all species (GULL); Osprey - (Ospr)

Temp:		Secchi:					
	SUN	4.0					
	MON	3.5					
	TUES	4.0					
	WED	5.5					
	THUR	4.0					
	FRI	4.0					
	SAT	5.5					
#DIV/0!	AVG:	4.4					

AVG:

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

	North Fis	h Ladder	East Fish Ladder													
	North E	ntrance		Ea	st Entranc	е			West En	trance		Sol				
Date:	Differential	N1 Depth	Differential	E1Depth	E2 Depth	E2 Depth E3 Depth JP 6		Differential	W1Depth	W2 Depth	W3 Depth	Differential	S1 Depth	S2 Depth	% Spill	
4/28/13	1.4	9.8	1.6	3.7	13.9	13.9	12.3	1.5		9.2	9.2	1.4	8.2	8.3	40.3	
4/28/13	1.3	9.9	1.6	3.9	13.9	13.9	12.1	1.5		9.1	9.1	1.5	8.1	8.1	39.5	
4/28/13			1.5	3.1	13.8	13.9		1.4	С	9.1	9.1	1.3	8.2	8.3		
4/29/13	1.3	7.8	1.5	2.8	14.0	14.0	11.4	1.4	l	8.8	8.8	1.4	8.3	8.3	39.8	
4/29/13	1.4	9.8	1.6	1.0	13.8	14.0	14.2	1.5	0 S	9.1	9.1	1.4	8.5	8.5	40.0	
4/29/13			1.4	3.2	14.0	14.1		1.2	e	8.9	8.9	1.2	8.4	8.4		
4/30/13	1.3	10.1	1.6	0.9	14.0	14.0	15.7	1.1	d	9.0 9.1	8.9	1.4	8.6	8.5	39.4	
4/30/13	1.3	9.9	1.4	1.1	14.1	14.0	11.4	1.4			9.0	1.3	8.6	8.5	40.5	
4/30/13																
5/1/13	1.3	9.9	1.5	1.0	14.0	13.9	12.2	0.8	Manual	9.0	9.1	1.2	9.2	8.4		
5/1/13	1.3	9.9	1.7	1.1	14.1	14.0	12.5	1.2	iviariuai	9.5	9.5	1.2	9.4	8.4	39.9	
5/1/13																
5/2/13	1.3	9.8	1.3	1.0	14.0	14.0	11.3	1.2	9.6	9.5		1.3	8.5	8.6	40.4	
5/2/13	1.3	9.8	1.7	0.1	13.5	13.6	11.2	1.7	8.5	8.4	С	1.5	8.1	8.2		
5/2/13																
5/3/13	1.4	9.8	1.7	С	13.6	13.6	12.0	1.8	8.5	8.6	0	1.6	8.1	8.1	40.0	
5/3/13	1.3	9.9	1.7	1	13.9	13.9	11.9	1.5	9.1	9.0	S	1.5	8.2	8.2	39.7	
5/3/13			1.7	0 S	13.4	13.4		1.7	8.5	8.4	e d	1.5	8.1	8.1		
5/4/13	1.2	9.9	1.7	e	13.0	13.0	10.3	1.5	8.1	8.1	ŭ	1.4	8.2	8.2	40.0	
5/4/13	1.3	9.9	1.9	d	13.4	13.5	12.2	1.7	8.1	8.2		1.5	8.2	8.2	39.6	
5/4/13			1.5		13.6	13.6		1.6	8.1	8.1		1.5	8.1	8.1		
AVG:	1.3	9.7	1.6	1.9	13.8	13.8	12.2	1.4	8.6	8.8	9.1	1.4	8.4	8.3	39.9	