## FISHWAY STATUS REPORT

3/14/2011 Date:

Inspection Period: 3/6/2011 - 3/12/2011

#### THE DALLES DAM

US Army Corps The Dalles, OR 97058-9998 of Engineers Portland District

The Dalles Project-Fisheries P.O. Box 564

Phone: 541-506-3800

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

The Dalles Dam	Inspections	Criteria	Total Number of Inspections:	15	Temperatu	ıre:	39.0	F			
	Out of Criteria	Limit	Comments		Secchi:	5.2	Ft.				
NORTH FISHWAY			North ladder returned to service o	n 2/28/11		•	•				
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'	Average 1.4	Daily diffe	rentials & we	eir depths, s	see <b>AVGS</b> t	ab.			
Entrance weir N1	0	depth (≥ 8')	Average 9.7								
Entrance weir N2		Closed	Bulkhead installed								
PUD Intake differential	0	≤ 0.5′	0.6' - small amount of debris on the intake rack.								
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′									
Weir crest depth	0	1.0' ± 0.1'									
Junction pool weir JP6	0	depth (≥ 7')	Average 14.4								
East entrance differential	4	1.0' - 2.0'	Average 1.6	Daily diffe	rentials & we	eir depths, s	see <b>AVGS</b> t	ab.			
Entrance weir E1	0	No criteria	Average 10.0	Manually	adjusted.						
Entrance weir E2	0	depth (≥ 8')	Average 10.7								
Entrance weir E3	0	depth (≥ 8')	Average 10.7								
Collection channel velocity	0	1.5 - 4 fps	Average 2.6	See Velo	cities tab for	more comp	olete inform	ation.			
West entrance differential	1	1.0' - 2.0'	Average 1.5	OOC at 2	.2' - Weirs we	ere adjusted	d.				
Entrance weir W1	0	depth (≥ 8')	Average 10.7								
Entrance weir W2	0	depth (≥ 8')	Average 10.7								
Entrance weir W3	0	No criteria	Average Closed								
South entrance differential	0	1.0' - 2.0'	Average 1.5	Daily diffe	rentials & we	eir depths, s	see <b>AVGS</b> t	ab.			
Entrance weir S1	6	depth (≥ 8')		Automatio	n problem. N	Maintenanc	e corrected				
Entrance weir S2	2	depth (≥ 8')	Average 9.0								
JUVENILE PASSAGE											
Sluicegate operation	0	units 1,5,18	Sluicegates 1-2, 1-3, 18-1, and 18	3-2 open fo	r adult kelt pa	assage thro	ugh March				
Turbine trashrack drawdown		<1.5', wkly									
Spill volume		40%, 24hr									
Spill Pattern		per FPP									
Turbine Unit Priority	0	per FPP									
Turbine 1% Efficiency	0	per FPP									

### OTHER ISSUES:

#### THE DALLES

Birds: Low numbers of coots and cormorants around the project. See bird tab below for detailed information.

Contractors LanPacific to start installation of anchor poles in spillway tailrace on BRZ island and north shore starting Mar14. USDA will install avian lines to these poles and some locations over sluiceway/powerhouse tailrace Apr7. Signs will be installed along south shore tirbal fishing area to alert fishermen of avian line location and purpose.

Pikeminnow: Dam angling preseason planning meeting scheduled for Apr21. Pacific States Marine Fish Commission will manage and Washington Dept of Fish and Wildlife will provide field crews. Fishing will start late spring.

Project fisheries will conduct stomach samples of bycatch bass, catfish and walleye to collect data for consumption rate comparison.

#### Operations:

North fish ladder returned to service on February 28th. The PUD turbine remained in by-pass until March 3rd. Entrance remained in criteria Sluiceway open for kelt passage through March with 4 gates open. April 1 will go to 6 gates open for juvenile passage per FPP. Sluiceway gates on east and west closed for 1/2 day each for ROV inspection if turbine trashrack.

# Maintenance:

The north count station diffuser was fixed on 3/2/11.

Turbine trashracks inspected via ROV Mar 8 and 9 for debris accumulation. With exception of 2 small sticks, no other debris found (as expected)

#### Studies:

East fishway reliability study - project engineering planning fishlock flush of 18" line to clear of mud. Flush will be into culdesac. Also exploring option of using turbine equalizing water source from turbine gallery.

#### Research/Contractors:

Battelle prepared for JSAT research and monitoring turbine passage for adults. Fenton Kahn met with project staff to inform of work plan. ODFW planning for BRZ electroshock collection of pikeminnow/bass. Ongoing research from past seasons.

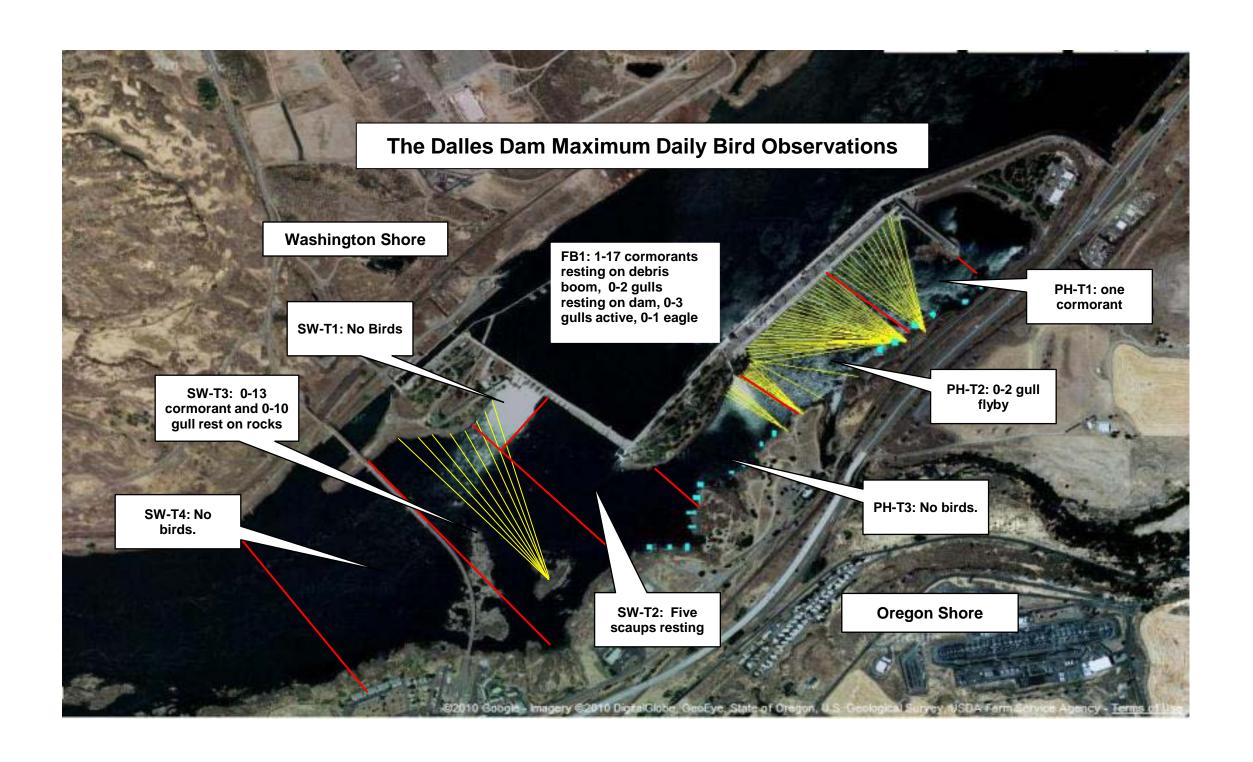
WDFW fish counter prework meeting at Bonneville Mar15.

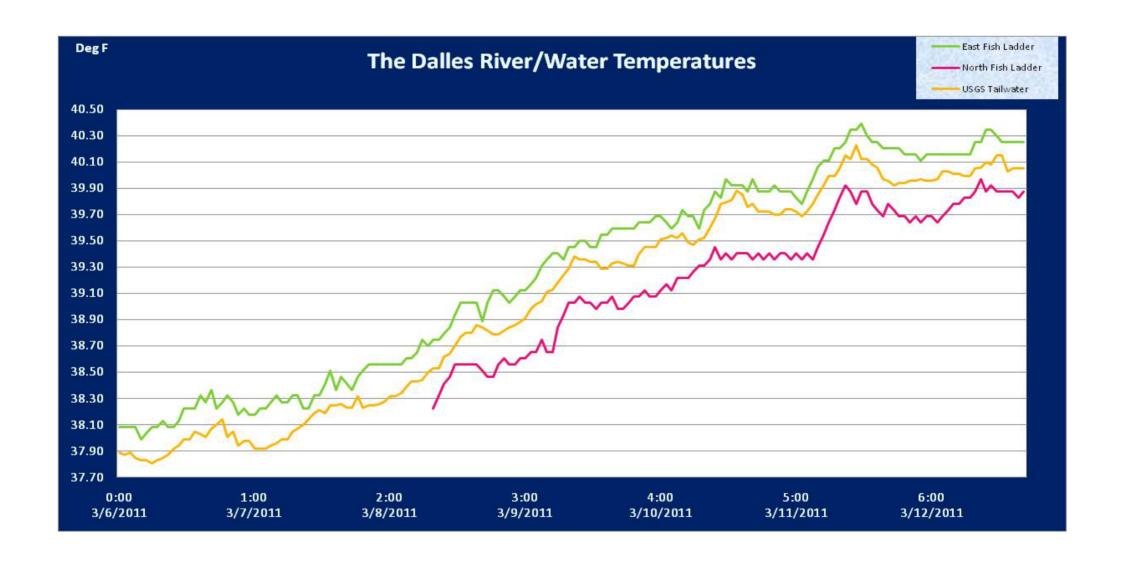
FFU avian observation planned. Prework meeting date to be determined.

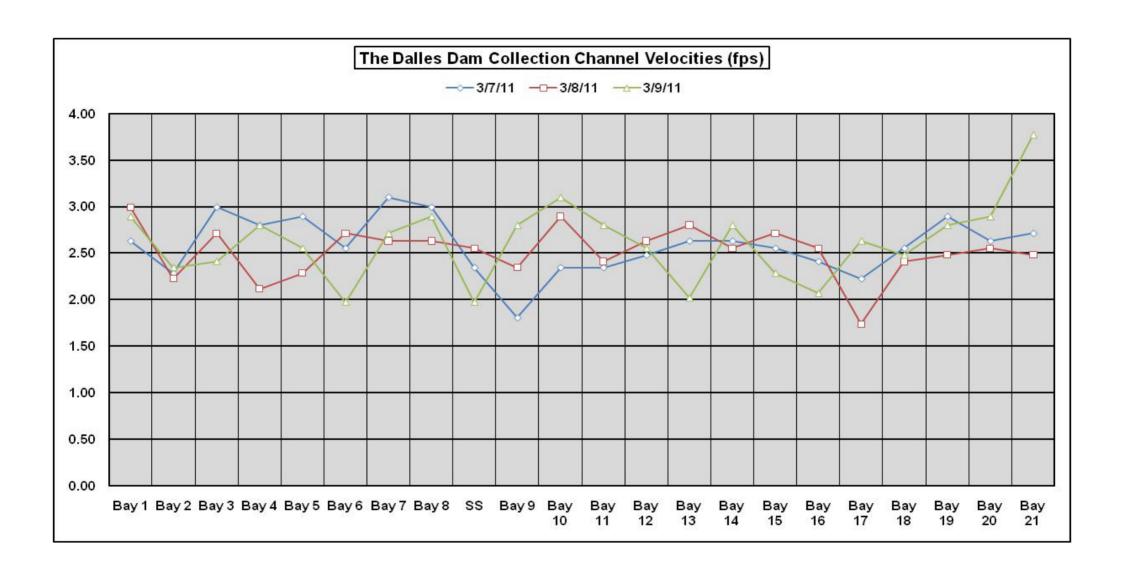
Potential tribal sturgeon collection for broodstock program from project. Premeeting date to be determined.

USFWS lamprey passage monitoring camera mounts installed at count stations inside pickets. Cameras not installed yet.

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







Temp: 37.9 Secchi: SUN 5.0 38.1 MON 6.0 TUES 38.6 6.0 39.2 WED 5.0 THUR 39.6 4.5 39.9 FRI 5.0 40.0 SAT 5.0 39.0 5.2 AVG:

AVG:

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

	North Fis	h Ladder	East Fish Ladder												
	North E	ntrance	East Entrance				West Entrance				South Entrance				
Date:	Differential	N1 Depth	Differential	E1Depth	E2 Depth	E3 Depth	JP 6	Differential	W1Depth	W2 Depth	W3 Depth	Differential	S1 Depth	S2 Depth	% Spill
6-Mar	1.4	9.6	1.6	12.1	12.1	12.1	13.8	1.5	10.0	10.1		1.5	8.6	8.2	
6-Mar	1.3	9.7		11.9	11.9	12.0	12.7	1.4	9.9	10.0		1.6	7.7	7.7	
6-Mar				12.0	12.1	12.1		1.4	10.1	10.0		1.5	7.8	8.1	
7-Mar	1.4	9.6	1.5	11.9	12.0	11.9	16.5	2.0	10.0	10.0		1.8	8.1	8.5	
7-Mar	1.4	9.7		12.0	12.1	11.9	15.9	1.3	11.2	11.3		1.4	8.8	9.5	
7-Mar															
8-Mar	1.4	9.7	1.8	12.4	12.2	12.4	15.6	1.7	10.6	10.5		1.6	8.5	9.5	
8-Mar	1.3	9.7	1.7	9.0	8.9	9.0	12.1	1.1	11.0	11.0		1.7	5.3	9.4	
8-Mar															
9-Mar	1.3	9.7	2.4	9.0	11.4	11.4	14.4	1.8	9.9	10.1		1.8	7.1	7.1	
9-Mar	1.4	9.8	1.6	9.0	11.1	11.0	14.9	1.7	10.6	10.6		1.6	7.9	9.5	
9-Mar															
10-Mar	1.4	9.7	2.7	9.1	12.6	12.6	14.6	1.3	11.6	11.6		1.4	7.6	10.6	
10-Mar	1.4	9.6	0.9	12.3	12.5	12.5	14.3	1.0	11.5	11.5		1.2	7.5	11.5	
10-Mar															
11-Mar	1.3	9.8	1.3	9.0	9.0	9.0	14.1	1.8	10.0	10.0		1.7	8.2	8.2	
11-Mar	1.4	9.6	1.4	9.1	9.1	9.1	14.6	1.5	10.9	11.1		1.6	8.9	9.0	
11-Mar			1.3	9.0	9.0	9.0		1.5	11.0	11.0		1.4	9.0	9.1	
12-Mar	1.3	9.8	1.3	6.0	8.2	8.3	14	1.5	10.5	10.6		1.5	9.6	9.5	
12-Mar	1.3	9.7	1.6	5.9	8.4	8.4	14.5	1.6	11.1	11.1		1.7	9.0	9.0	
12-Mar			0.9	9.5	9.5	9.5		0.9	11.5	11.4		1.1	9.2	9.3	
AVG:	1.4	9.7	1.6	10.0	10.7	10.7	14.4	1.5	10.7	10.7	Closed	1.5	8.2	9.0	On seal

Third fish way inspection for east fish ladder, east, west, and south entrances completed via automation system in fisheries office.



ROV inspection of turbine trashracks for debris accumulation