

FISHWAY STATUS REPORT

Date: 11/06/11

Inspection Period: 10/30 - 11/05/11

THE DALLES DAM



**US Army Corps
of Engineers**
Portland District

The Dalles Project-Fisheries
P.O. Box 564
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Fishways are inspected twice daily. Additional daily monitoring done via automation system in fisheries office.

The Dalles Dam	Inspections	Criteria	Total Number of Inspections:	21	Temperature:	57.2	F
	Out of Criteria	Limit	Comments		Secchi:	6.0	Ft.
NORTH FISHWAY							
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	1.3	Daily differentials & weir depths, see AVGS tab.		
Entrance weir N1	0	depth (≥ 8')	Average	9.4			
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'					
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	1.5	Daily differentials & weir depths, see AVGS tab.		
Entrance weir E1	0	No criteria	Average	6.4	Manually adjusted.		
Entrance weir E2	0	depth (≥ 8')	Average	11.1			
Entrance weir E3	0	depth (≥ 8')	Average	11.1			
Collection channel velocity	0	1.5 - 4 fps	Average	2.5	See Velocities tab for more complete information.		
West entrance differential	0	1.0' - 2.0'	Average	1.3			
Entrance weir W1	0	depth (≥ 8')	Average	8.5			
Entrance weir W2	0	depth (≥ 8')	Average	8.5			
Entrance weir W3	0	No criteria	Average	Closed			
South entrance differential	0	1.0' - 2.0'	Average	1.3	Daily differentials & weir depths, see AVGS tab.		
Entrance weir S1	0	depth (≥ 8')	Average	8.3	Manually adjusted.		
Entrance weir S2	0	depth (≥ 8')	Average	8.3			
JUVENILE PASSAGE							
Sluiceway operation	0	units 1,8,18					
Turbine trashrack drawdown	0	<1.5', wkly	Range:	0.1' - 0.6'			
Spill volume	0	Closed	Closed for fish passage 8/31				
Spill Pattern	0	per FPP	On seal.				
Turbine Unit Priority	0	per FPP					
Turbine 1% Efficiency	0	per FPP					

OTHER ISSUES:**THE DALLES*****Birds:***

Bird numbers have increased around the project. Primarily gulls, cormorants and grebes. See bird tab below for more information on species, numbers and location.

Operations:

The Dalles Fisheries to provide support for dewatering and fishing of John Day north fishladder upper section 11/7.

Mr. Cordie attended the Fish Passage Operation and Maintenance meeting 11/1 - 11/2.

The fishway dewatering schedule and task list planning is underway with edits from meeting with maintenance staff.

The third fishway daily inspections trend taken from the fisheries office SCADA system indicated that all entrances and exits were in criteria from 1700 to 0630 hours.

Calibrations and gatewell drawdown were not completed.

Due to low tailwater, fisheries are unable to maintain > 7' depth for water over weir JP-6. Currently the weir has been raised completely out of the junction pool to achieve criteria.

All fishways are maintaining criteria operation as per Fish Passage Plan (FPP).

Maintenance:

PUD turbine off line and in bypass flow all last week due to cooling water failure. No affect to north fishway operation.

Studies:

Adult PIT study project support continues per request.

East fishway backup study project support continues per request. Planning for fish lock pipe clean out and test operation continues.

Research/Contractors:

Meeting with The Dalles Project Staff to organize and preplan for project support of FY12 research occurred 11/3. Lamprey studies include improving adult Pacific lamprey passage and survival at lower Columbia River dams; systematic adult lamprey passage documentation; evaluation of adult Pacific lamprey behavior and fate in Columbia River reservoirs using acoustic telemetry; use of non-invasive methods to evaluate Pacific lamprey counts and passage behavior in the lower Columbia River.

Planning is underway for Battelle's Juvenile Salmon Acoustic Telemetry System (JSATS) project and specific issues that need to be addressed for the 2012 field season. The dive team will remove the rest of the derelict acoustic gear from half the powerhouse main turbine unit pier-noses. There are a few spillway trolley pipes that need to be fabricated/repared and installed as well.

Inland Bird Predation Work Group meeting 10/25 at Westrick. Summarized results of overall Columbia bird predation problem on juvenile salmonids inland from estuary. Miller Island gull colony on list of problem areas, but rates low compared to upriver sites.

Washington Department of Fish and Wildlife (WDFW) fish counting completed end of October.

Oregon Department of Fish and Wildlife (ODFW) bass angling finished their field activities at the end of August and are currently working on diet sample lab work. The draft report will be completed some time in February. Preliminary analysis of the catch and effort data propose a June to September sample period for next year.

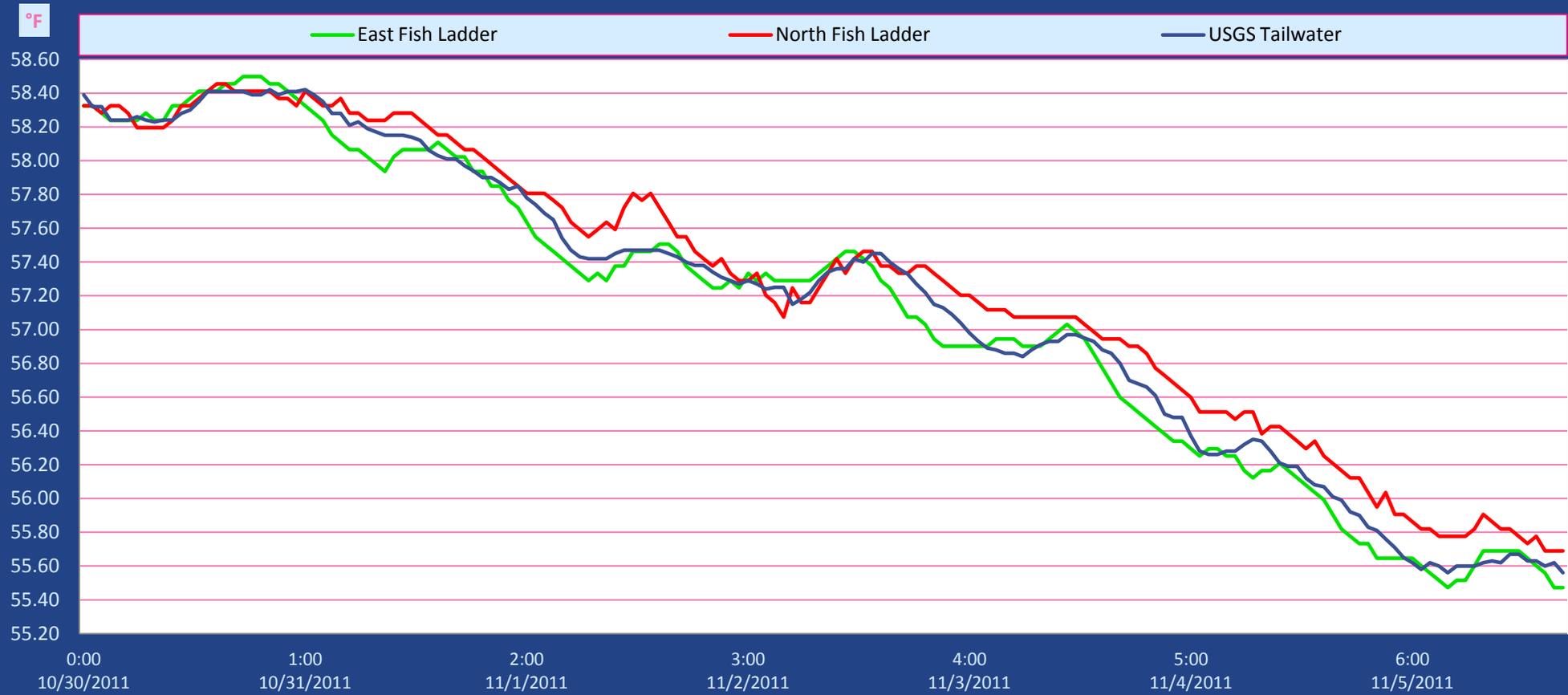
Approved by;
Ron D. Twiner
Operation Project Manager
The Dalles Dam

The Dalles Dam Fish Counts

Date	East	North	East	North	Total	Total	East	North					East	North					Spill
	Chinook	Chinook	Chinook	Chinook	East	North	unclipped	unclipped	East	North	East	North	Coho	Coho	East	North	East	North	Volume
	Adult	Adult	Jack	Jack	Sthd	Sthd	Sthd	Sthd	Sock	Sock	Coho	Coho	Jack	Jack	Lamprey	Lamprey	Pink	Pink	
30-Oct	187	16	66	2	139	17	47	4	0	0	125	30	5	0	0	0	0	0	O N S E A L
31-Oct	156	11	46	1	158	12	62	4	0	0	60	7	1	0	0	0	0	0	
End of count season																			
Wkly Tot	343	27	112	3	297	29	109	8			185	37	6						
% Split	92.7%	7.3%	97.4%	2.6%	91.1%	8.9%	93.2%	6.8%			83.3%	16.7%	100.0%						

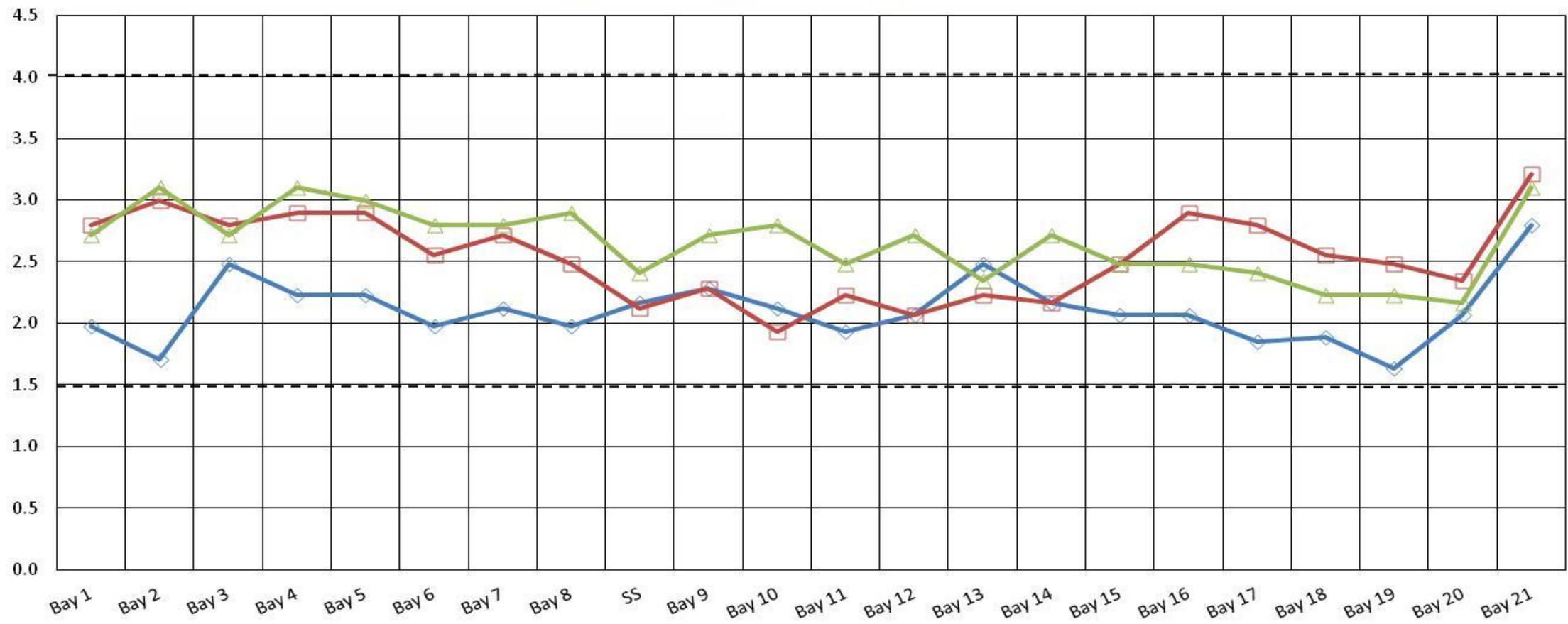
Spill range: On seal.

The Dalles River/Water Temperature



The Dalles Dam Collection Channel Velocities (fps)

11/1/2011 11/2/2011 11/3/2011



The Dalles Dam Maximum Daily Bird Observations

Washington Shore

SW-T1: one cormorant

SW-T3: 32 cormorants and 64 gulls resting on rocks; 2 active cormorants

SW-T4: one active

FB1: 200 grebes resting on water and 33 cormorants in towers. 25 gull on water

SW-T2: 158 gull, 77 cormorant rest on rocks (South Entrance)

PH-T1: 52 mergansers, 35 cormorants, one gull and one heron

PH-T2: 17 cormorant & 18 mergansers active at sluice outfall

PH-T3: 8 merganser and 2 gull active

Oregon Shore

Temp:			Secchi:	
	58.3	SUN		6.0
	58.2	MON		6.0
	57.5	TUES		6.0
	57.3	WED		6.0
	57.0	THUR		6.0
	56.3	FRI		6.0
	55.7	SAT		6.0
AVG:	57.2	AVG:		6.0

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

North Fish Ladder			East Fish Ladder												% Spill
North Entrance		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	
10/30/11	1.2	9.7	1.4	7.1	10.6	10.6	8.6	1.1	8.5	8.5	Closed	1.2	8.3	8.3	
10/30/11	1.2	9.4	1.6	6.9	10.4	10.4	9.3	1.2	8.5	8.5		1.2	8.3	8.3	
10/30/11			1.1	7.1	11.4	11.4	8.4	1.0	8.5	8.5		1.1	8.5	8.5	
10/31/11	1.3	9.4	1.6	7.0	10.5	10.5	9.8	1.3	8.7	8.6		1.3	8.3	8.4	
10/31/11	1.3	9.4	1.6	7.0	10.5	10.4	9.2	1.3	8.5	8.5		1.2	8.3	8.4	
10/31/11			1.4	6.9	10.4	10.6	9.4	1.2	8.5	8.5		1.2	8.3	8.3	
11/1/11	1.4	9.3	1.6	8.9	11.4	11.4	10.6	1.4	8.5	8.5		1.3	8.3	8.3	
11/1/11	1.4	9.4	1.6	8.9	11.4	11.5	11.3	1.6	8.4	8.4		1.5	8.3	8.3	
11/1/11			MISSING INSPECTION SHEET												
11/2/11	1.2	9.4	1.6	5.0	11.0	10.9	9.7	1.4	8.4	8.4		1.4	8.3	8.3	
11/2/11	1.3	9.3	1.8	5.0	11.1	10.9	9.9	1.4	8.5	8.5		1.4	8.4	8.3	
11/2/11			1.0	9.0	12.4	12.5	8.5	1.1	8.5	8.4		1.2	8.2	8.2	
11/3/11	1.3	9.4	1.7	5.0	11.1	11.1	9.7	1.3	8.6	8.5		1.3	8.4	8.4	
11/3/11	1.3	9.4	1.8	5.1	11.0	11.1	10	1.4	8.5	8.6		1.3	8.4	8.3	
11/3/11			1.8	5.0	10.9	11.0	9.9	1.3	8.6	8.5		1.4	8.3	8.3	
11/4/11	1.3	9.4	1.8	5.0	11.0	10.9	10.2	1.5	8.5	8.4		1.5	8.2	8.2	
11/4/11	1.3	9.4	1.4	5.1	11.1	11.0	8.3	1.5	8.4	8.5	1.4	8.4	8.2		
11/4/11			1.5	6.0	11.4	11.5	10	1.4	8.4	8.5	1.3	8.4	8.4		
11/5/11	1.3	9.3	1.4	5.9	11.3	11.3	9.5	1.2	8.6	8.5	1.3	8.3	8.3		
11/5/11	1.3	9.4	1.5	5.9	11.3	11.3	9.5	1.3	8.3	8.3	1.3	8.3	8.3		
11/5/11			1.5	5.8	11.3	11.3	9.4	1.3	8.5	8.4	1.3	8.4	8.4		
AVG:	1.3	9.4	1.5	6.4	11.1	11.1	9.6	1.3	8.5	8.5	Closed	1.3	8.3	8.3	

ON SEAL

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