

FISHWAY STATUS REPORT

Date: 1/30/11

Inspection Period: 1/23-29/2011

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:	7	Temperature:	40.8	F
	Out of Criteria	Limit	Comments		Secchi:	2.9	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	1.4	Daily differentials & weir depths, see AVGS tab.		
Entrance weir N1	0	depth (≥ 8')	Average	9.7			
Entrance weir N2		Closed	Bulkhead installed				
PUD Intake differential	0	≤ 0.5'	0.6'. Maintenance has increased raking frequency due to high debris load.				
EAST FISHWAY							
Exit differential		≤ 0.5'					
Removable weirs 154-157		Per forebay					
Weir 158-159 differential		1.0' ± 0.1'					
Count station differential		≤ 0.3'					
Weir crest depth		1.0' ± 0.1'					
Junction pool weir JP6		depth (≥ 7')					
East entrance differential		1.0' - 2.0'					
Entrance weir E1		No criteria					
Entrance weir E2		depth (≥ 8')					
Entrance weir E3		depth (≥ 8')					
Collection channel velocity		1.5 - 4 fps					
West entrance differential		1.0' - 2.0'					
Entrance weir W1		depth (≥ 8')					
Entrance weir W2		depth (≥ 8')					
Entrance weir W3		No criteria					
South entrance differential		1.0' - 2.0'					
Entrance weir S1		depth (≥ 8')					
Entrance weir S2		depth (≥ 8')					
JUVENILE PASSAGE							
Sluiceway operation	NA	units 1,5,18	Endgate closed; sluiceways 1-1 & 18-1 open per FPP.				
Turbine trashrack drawdown	NA	<1.5', wkly					
Spill volume	NA	40%, 24hr	Spill is on seal.				
Spill Pattern	NA	per FPP					
Turbine Unit Priority	0	per FPP					
Turbine 1% Efficiency	0	per FPP					

East Fish Ladder is dewatered for annual maintenance
RTS is Feb 1, 2011

OTHER ISSUES:

Birds: Eagle numbers decreasing. Cormorant numbers still high. Refer to avian observation map.

New avian lines planned for spillway under post spillwall contract. New avian lines also planned for sluiceway and powerhouse tailrace gaps pending district approvals.

Pikeminnow: Awaiting post season evaluation meeting.

Operations: Half hour operation of ice trash sluiceway to flush accumulated debris.

Maintenance: East fishway maintenance completed. Water up Feb 1. North fishway to be dewatered Feb7. North fishway maintenance tasks include; replace diffuser grating at count station, remove brush from ladder rock walls, repair leaking expansion joint at count station, raise count station picket leads 1.5" for lamprey passage.

Dive to clean north entrance sill for bulkhead placement to occur Feb7.

Studies: East fishway backup water supply study reviewing latest alternatives. Project supporting as needed. Spillway avian line plan complete Contractor site visit occurred Jan26 for anchor pole installation planning. Lamprey improvement site visit of east ladder occurred Jan31. Nine new alternative mods will be further discussed for planning and possible implementation next winter outage. Video system installed between count station picket leads for counting lamprey that pass behind crowder.

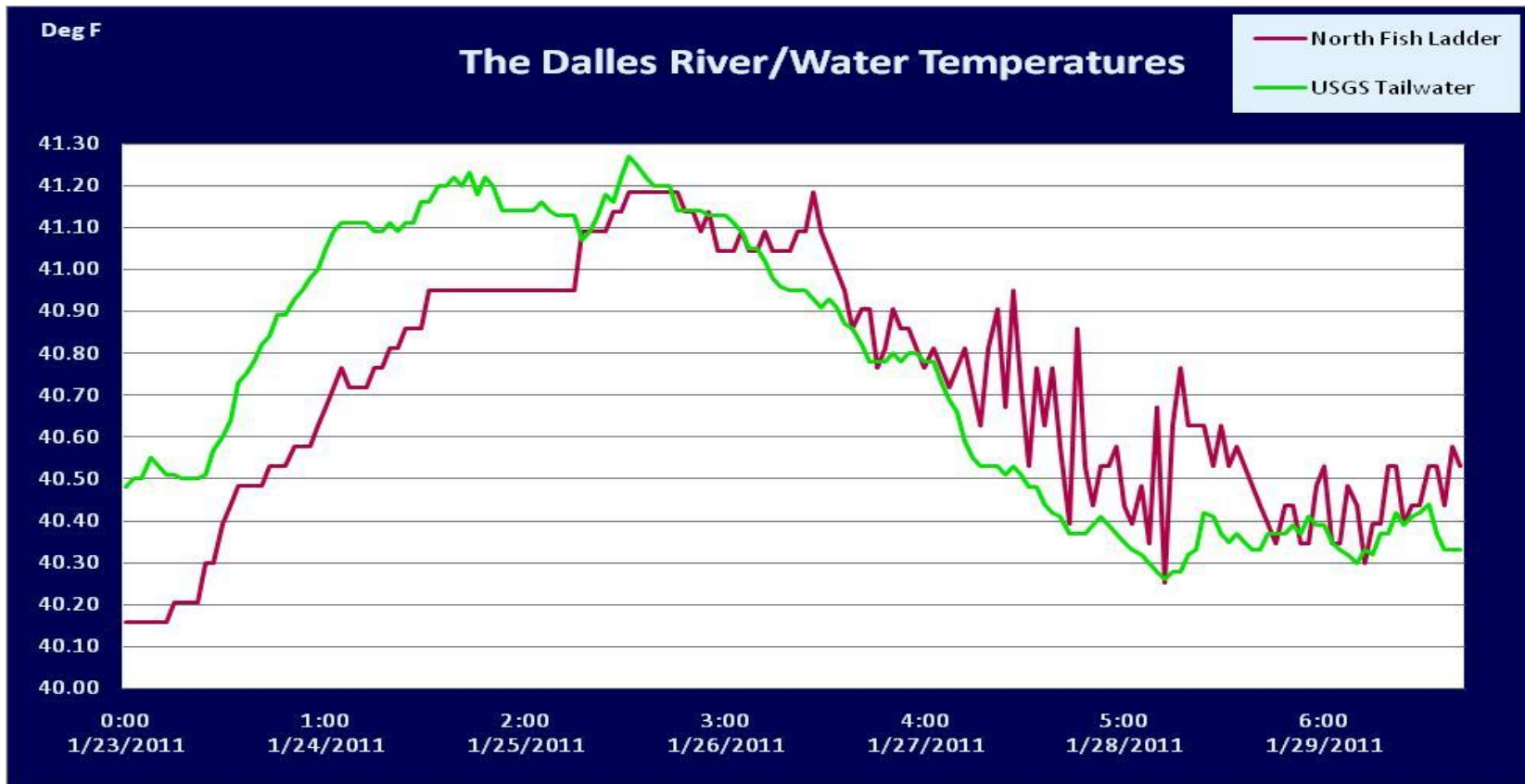
Research: Dive to remove old USGS gear from powerhouse, sluiceway and spillway planned for week of Feb14. New pipes for Battelle acoustic telemetry to be installed at units 8 and 9, to replace temporary shallow pipes.

Approved by;

Ron D. Twiner

Operation Project Manager

The Dalles Dam



The Dalles:

Temp:		Secchi:
40.7	SUN	2.5
41.1	MON	2.5
41.2	TUES	3.0
41.0	WED	3.0
40.6	THUR	3.5
40.3	FRI	3.0
40.4	SAT	3.0
AVG: 40.8	AVG:	2.9

North Fish Ladder		East Fish Ladder													
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	% Spill
23-Jan	1.4	9.8													
24-Jan	1.4	9.7													
25-Jan	1.4	9.6													
26-Jan	1.4	9.5													
27-Jan	1.4	9.6													
28-Jan	1.3	9.7													
29-Jan	1.3	9.8													
AVG:	1.4	9.7									Closed				On seal

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

Installed seal material on all upstream guide guards of adjustable exit weirs 158 and 159 to better seal



The Dalles Dam Daily Bird Observation Range

Washington Shore

FB: 0-2 eagle rest on towers, 0-2 eagles flyby, 3-12 cormorant active, 0-6 cormorant rest on BRZ bouys, 36-96 cormorants rest on boom, 0-8 gulls, rest on dam wall, 0-5 gull flyby

PH-T1: 1-3 cormorants active, 0-2 eagles rest trees

SW-T1: 0-1 eagle flyby, 0-2 eagle rest

SW-T3: 0-8 mergansers active, 0-14 gull rest on rocks, 0-11 cormorant rest on rocks

PH-T2: 0-1 great blue heron-rest on rocks

SW-T4: 0-27 cormorant rest on rocks

Oregon Shore

PH-T3: 6-28 eagles rin trees, 0-6 gulls feeding on eagle scraps, 3 great blue herons on fence

SW-T2: 0-4 gulls, rest on rocks, 0-5 gulls rest on fence