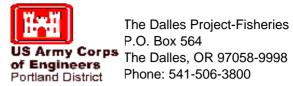
The Dalles Dam Fishway Status Report

Date: 12/22/2013 Inspection Period: 12/15/13 to 12/21/2013

THE DALLES DAM



The Dalles Project-Fisheries P.O. Box 564

Fishways are inspected once daily during the winter.

Fishways are inspected once daily				_				
The Dalles Dam	Inspections	Criteria	Total Number of Inspections: 7	Temperature: 39.6 F				
	Out of Criteria	Limit	Comments	Secchi: 5.5 feet				
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					
Entrance weir N1	0	depth (≥ 8')	Average 9.3					
Entrance weir N2		Closed	Bulkhead installed.					
PUD Intake differential	0	≤ 0.5'						
EAST FISHWAY			East Fishladder dewatered for	annual maintenance through Feb3				
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						
Transportation channel velocity		1.5 - 4 fps						
North channel velocity		1.5 - 4 fps						
South 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								
Sluicegate operation	0		End gate closed; sluicegates open for equali					
Turbine trashrack drawdown		<1.5', wkly	No unit pri	ority for winter				
Spill volume		40%, 24hr						
Spill Pattern		per FPP						
Turbine Unit Priority		per FPP						
Turbine 1% Efficiency		per FPP						

OTHER ISSUES:

Birds/Sea lions:

Bird observation data collected once per day. Foraging decreasing from fall numbers.

See avian zones map and distribution tabs.

Bald eagles have started to return to Westrick Park. Up to ~40 in morning. Most leaving by mid afternoon.

Operations:

East fishway dewatered for maintenance. North fishway in full operation. Sluiceway closed for winter. No unit priority.

Current Outages:

East Fish Ladder OOS 0600 12/3/2013 to 2/3/2013 for /Annual Maintenance

F1 OOS 0600 12/2/2013 to 1700 2/3/2013 for Annual

F2 OOS 0600 12/2/2013 to 1700 2/3/2013 for O/H and Digital Governor

T8 (MU-15 and 16) forced OOS due to high gas levels 1141 12/21/2013, ETR unknown

Maintenance:

Fishway winter maintenance dewatering schedule changed due to lamprey plating installation delay in the lower section of the east ladder; East fishway extended to Feb 3. North fishway dewatering Feb 4 through end of Feb.

Winter maintenance work; west entrance grating attachment upgrade completed, east exit weir 159 upgrades in progress, east exit deck leak repair in progress, west entrance wheel replacement in Jan, north entrance sill dive Jan 8 to remove gravel buildup.

North entrance sill clean dive planned for Jan9. Pre-meeting in Westrick 0800 same day.

Studies:

PIT - Temporary Thin Wall PIT tag Antenna continues to work successfully. North antenna to be repositioned early Feb. PSMFC investigating feasibility for PIT installation on ice trash sluiceway channel. Project providing information as needed.

EFL - Plan is for 10' dia. pipe through dam to AWS conduit under east fishladder. Dive plan meeting Dec19 for caisson installation. Start winter '15.

PUD - Mod original FERC license underway for additional north turbine. No new developments.

Lamprey - Plating mods in 14 lower east ladder weir orifices delayed. Target completion Feb2. Objective is to improve passage conditions in high flow velocity areas of weir orifices by creating attachment substrate.

Research/Contractors:

University of Idaho moving into the overwintering steelhead portion of their study. Monitoring downstream migration of summer steelhead.

The study will continue into spring when they begin when they begin tagging next years fish.

Removal last set of 3 derelict Vertical Barrier Screens (VBS) in MU 12 gatewell slot as funding becomes available.

Plans underway for dive removal of remaining pier nose USGS antennas week of Feb17. JSAT antenna pipes on spillway and powerhouse postponed to next winter.

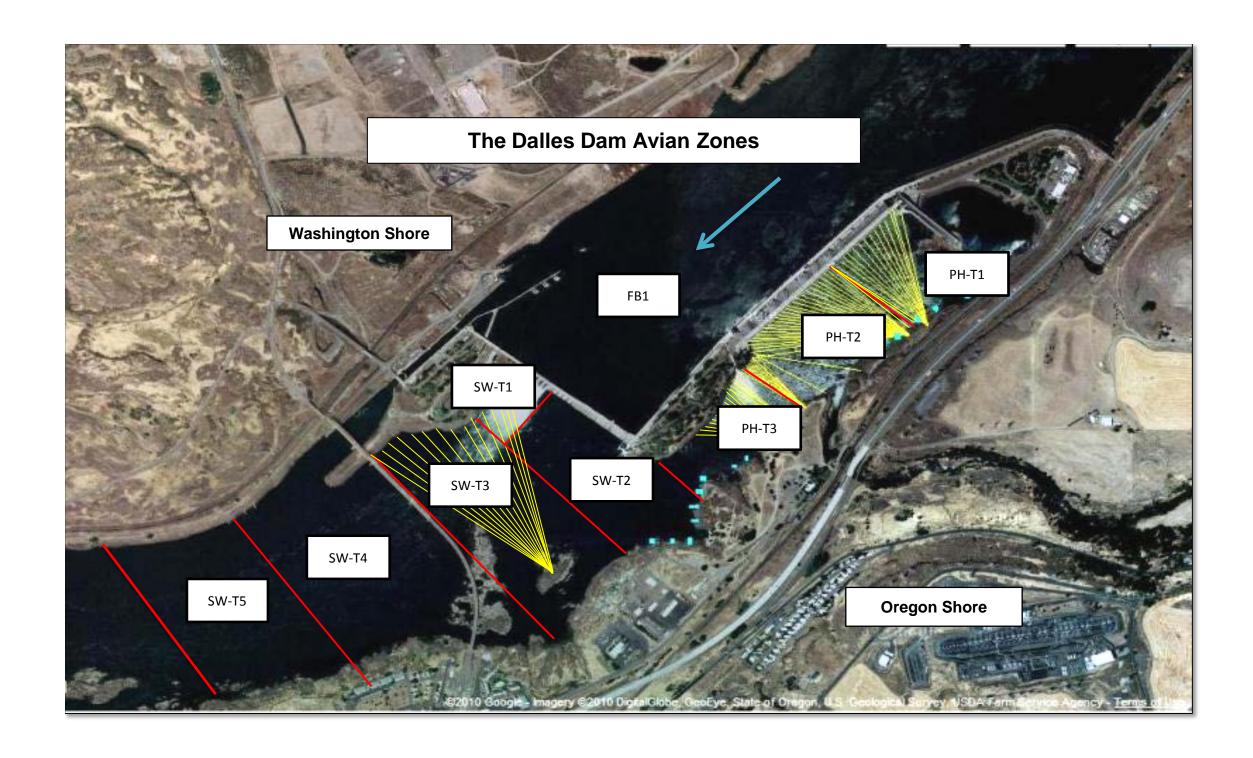
USFWS camera equipment for lamprey monitoring at both count stations to be removed.

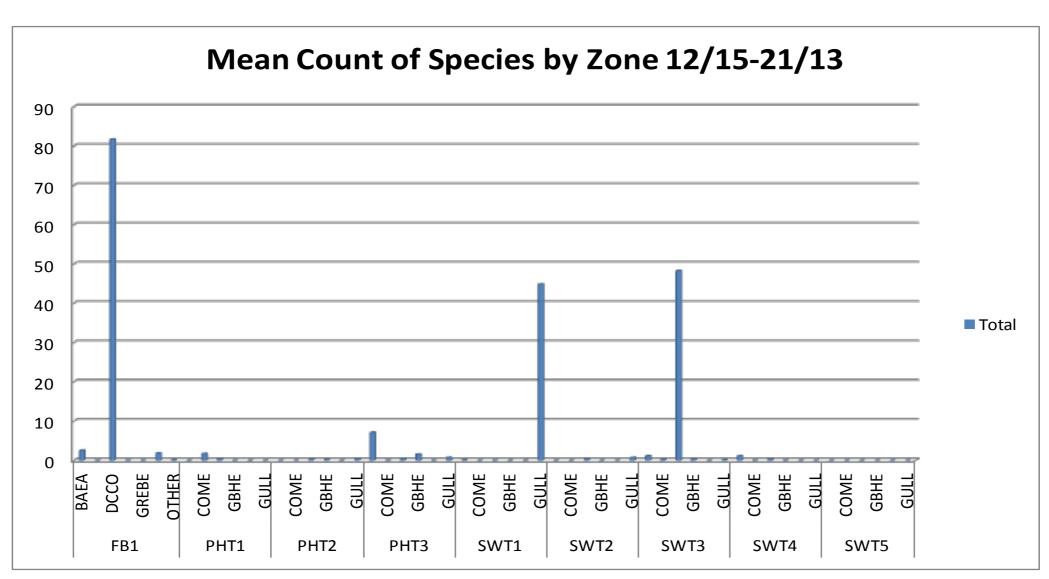
Approved by:

Mike Colesar for Ron D. Twiner

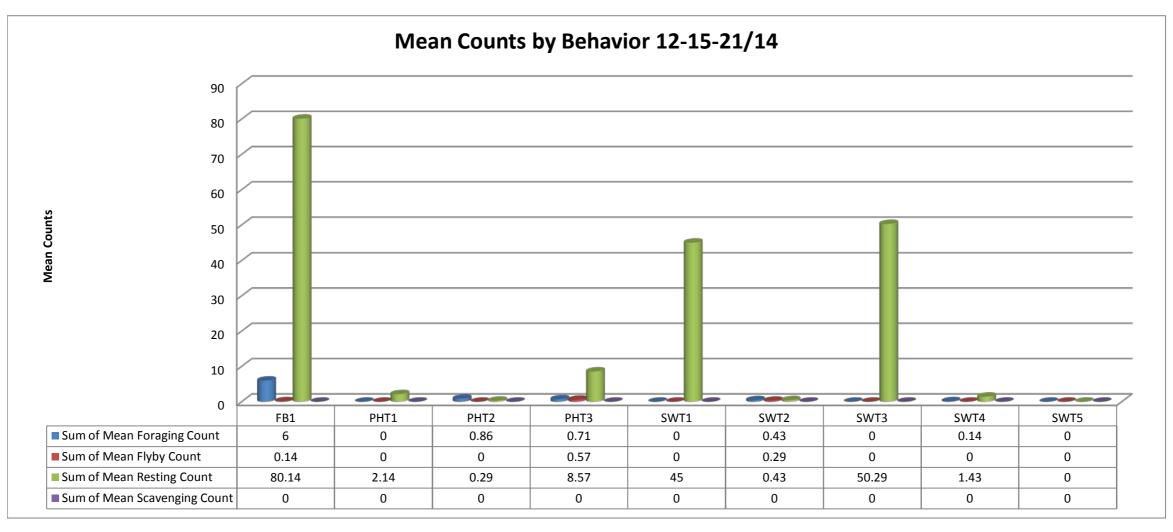
Operation Project Manager

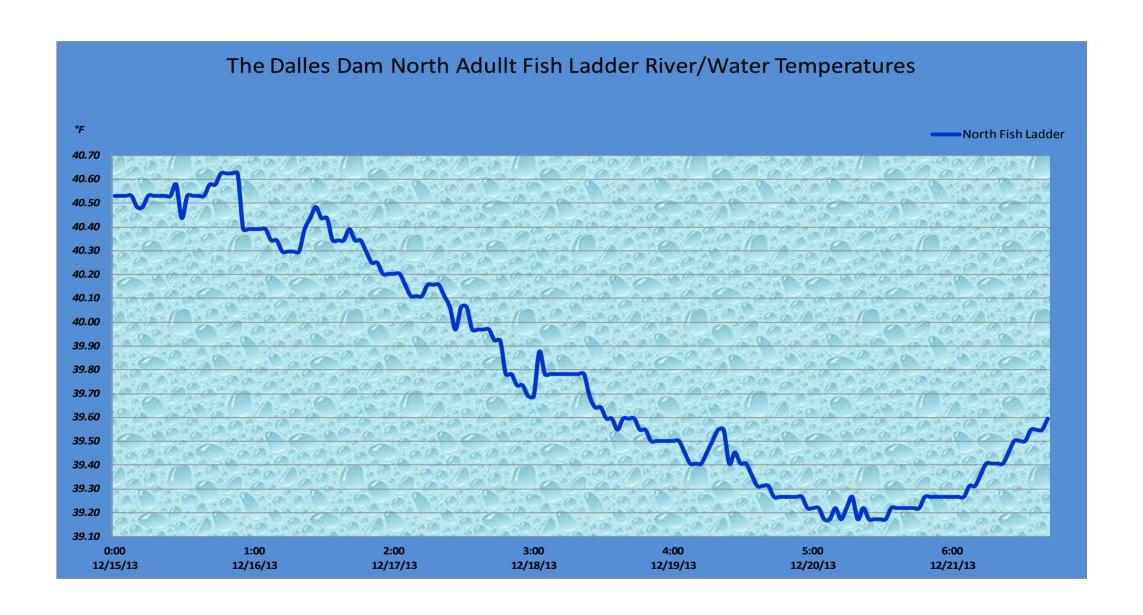
The Dalles Dam





AWPE - American White Pelican; BAEA - Bald Eagle; CATE - Caspian Tern; COME - Common Merganser; DCCO - double crested cormorant; GBHE - Great Blue Heron; GREBE - Grebe; Gull- Gull (all species); OSPR - Osprey





Temp:	_	Secchi:
40.2	SUN	5.5
40.2	MON	5.5
39.8	TUES	5.5
39.4	WED	5.5
39.3	THUR	5.5
39.1	FRI	5.5
39.3	SAT	5.5
39.6	AVG:	5.5

AVG:

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

= out of criteria

	North Fish	Ladder		East Fish							ast 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		
	1.0	10.0														
15-Dec-13	1.3	10.0									В					
											U					
16-Dec-13	1.3	9.3									L					
											K H					
17 Dec 12	1.5	9.2									E					
17-Dec-13	1.5	9.2									Α					
											D					
18-Dec-13	1.3	9.2									1					
											N					
19-Dec-13	1.3	9.3									S					
											T A					
											L					
20-Dec-13	1.4	9.2									L					
											E					
21-Dec-13	1.3	9.1									D					
AVG:	1.3	9.3									closed					



Rehab work on east exit 159 weirs. Upon removal, found in worse condition than expected. Wheels and seals to be replaced. Also wear guide wear to be repaired.