The Dalles Dam Fishway Status Report

2/27/2016

Inspection Period: 02/21/2016-02/27/2016

Closed

≤ 0.5'

0

0

Entrance weir N2

PUD Intake differential

THE DALLES DAM



PUD in bypass on 2/16/16. Entrance was still in criteria.

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The Dalles, OR 97058-9998
Phone: 541-506-3800

rishwuys ure inspected once dully plus one SCADA inspection starting December 1													
The Delles Dem	Inspections	Criteria	Total Num	ber of Inspections:	7	Temperatu	°F						
The Dalles Dam	Out of Criteria	Limit	Comments			Secchi:	3.7	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'	1.4			_							
Entrance weir N1	0	depth (≥ 8')	9.5										

EAST FISHWAY

East Ladder down for winter maintenance RTS 2/28/16

	JUVENILE PASSAGE												
Sluicegate operation	0	0 Units 1, 8, 18											
Turbine trashrack drawdown		<1.5', wkly											
Spill volume	e Spill DTS April 2016												
Spill Pattern		Spill RTS ~April 2016											
Turbine Unit Priority	NA	NA per FPP Out of fish passage season											
Turbine 1% Efficiency	NA	NA per FPP Out of fish passage season											

OTHER ISSUES:

Birds/Sea lions:

Bird observation data collected once daily. Refer to Avian Zone map.

Sea lion observed multiple times near east fishway.

Operations:

East fish ladder watered up to tailwater 2/23, exit bulkheads pulled 2/25, ladder will RTS 3/1

North fishway in service.

Turbine trashrack drawdown and velocities to resume Mar 1.

Current Outages:

T8 (MU15 & MU16) FOOS through 3/10/2016 due to high levels of methane production

MU3 FOOS through 4/1/2016 due to loss of governor sump oil level

MU11 FOOS through 2/22/2016 due to a thrust bearing cooler leak

F2 OOS 0600 12/1/2015 to 1700 2/29/2016 for O/H

EFL OOS 0600 1/3/2016 to 1700 2/29/2016 for annual maintenance

F1 OOS 0600 1/3/2016 to 1700 2/29/2016 for Annual

Spillway gates 1-6 OOS Daily from 0600 2/17/2016 to 1700 2/25/2016 to perform gate climbing inspections.

Maintenance:

Assembling 1 of 6 collection channel dewatering pumps for installation. To be installed after in water work period.

East exit weir electrical panel FCQ7 panel to arrive in March for initial installation. Final electrical connection awaiting funding.

New dewatering pump motor for north fishway entrance delivery this spring. Install before dewater season 2016/2017.

East fishladder expansion joint leakage leakage repair completed.

Fish unit maintenance complete. Start up Feb 29.

Making final adjustments on 158 and 159 weir automation.

Tailrace crane repair near west entrance delayed beyond end of in water work period (~mid April). MOC form updated for FPOM review.

Upcoming winter maintenance period workload; adjust 158 weir completed, east entrance weirs wheel replace and lift modifications in progress.

Long Term repair plans; 154 -157 weir mods, removal/permanent closure collection channel diffusers, repair failed diffusers - all on hold due to funding Fish related /non-fish funded items; spillway evaluation, spillway crane rehab, spillgate 9 trunnion pin replace, sluiceway chaingate rehab (approx 50% complete), fish unit breaker replace (in planning), and transformer replace (in planning).

All spillway items on Critical Infrastructure list and Unfunded Requirement list. Spill gate 9 repair on hold awaiting funding.

Studies:

North fishladder rehab study for rock wall ongoing. Construction 2017/18. FPOM review as needed.

East fishladder emergency backup construction delayed. Awaiting planning meetings.

Crane rail replacement on tailrace and intake 2016-17. To be completed within in water work period.

Transformer replacement planning underway. Plans to eliminate fish unit TA transformers. Work to start 2017. Periodic planning meetings continue.

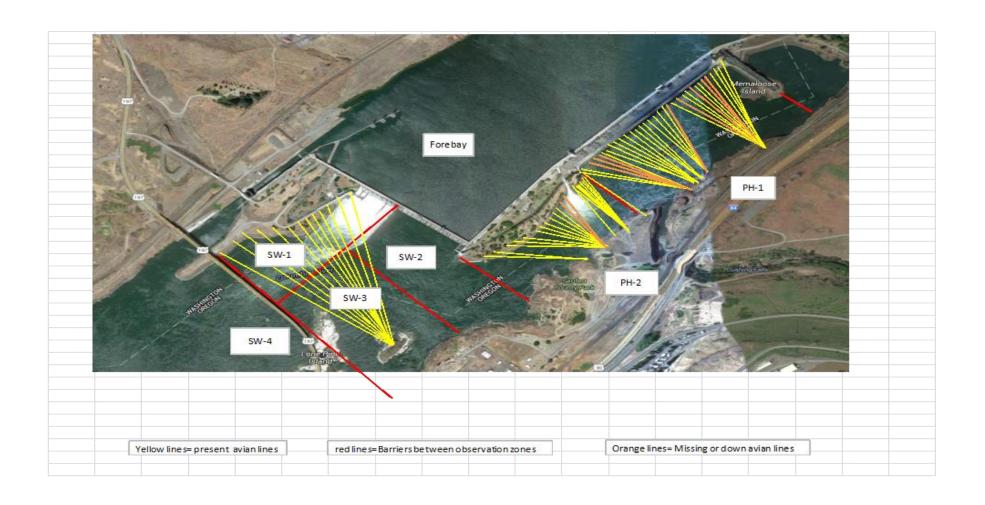
Lamprey minor modification planning site visit Jan26. Potential improvements for trapping at east count station.

Research/Contractors:

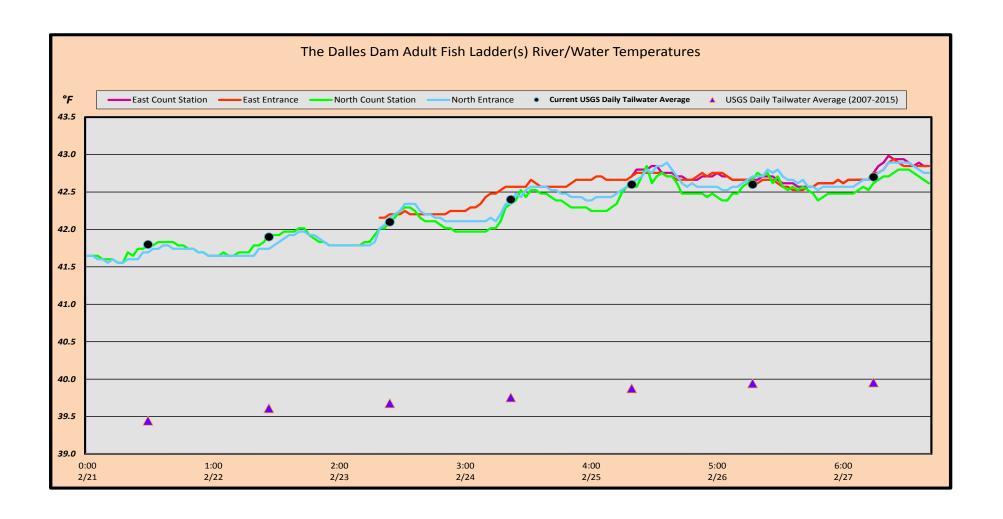
Normandeau fish counters season done 10/31. Resumes Apr1.

Approved by: Ron Twiner

Operation Project Manager The Dalles Dam



	2016 Piscivorous Bird Counts																
F=foraging, NF=non-foraging																	
Date	observer	Time	Zone	G	Gull	Corm	norant	Caspi	an tern	Gr	ebe	Pel	ican	Ot	her	Total birds in	Notes
Dute	Observer	(24 hr)	Lone	F	NF	F	NF	F	NF	F	NF	F	NF	F	NF	zone	l
		9:27	FB	0	0	0	0	0	0	0	0	0	0	0	0	0	1
		9:20	PH1	0	0	0	0	0	0	0	0	0	0	0	0	0	I
		9:26	PH2	0	0	0	0	0	0	0	0	0	0	0	0	0	1
2/21/16	EHK	9:50	SW1	0	0	0	0	0	0	0	0	0	0	0	0	0	1
		9:28	SW2	0	0	0	0	0	0	0	0	0	0	0	0	0	1
		9:29	SW3	0	0	0	20	0	0	0	0	0	0	0	6	26	GBH
		9:30	SW4	0	0	0	0	0	0	0	0	0	0	0	0	0	<u> </u>
		9:52	FB	0	0	0	0	0	0	0	0	0	0	0	0	0	1
		9:34	PH1	0	0	0	0	0	0	0	0	0	0	0	0	0	1
	ļ.	9:49	PH2	0	0	0	0	0	0	0	0	0	0	0	2	2	BAEA
2/22/16	EHK	10:06	SW1	0	0	0	0	0	0	0	0	0	0	0	0	0	1
		9:57	SW2	0	0	0	0	0	0	0	0	0	0	0	0	0	
		9:58	SW3	0	0	0	11	0	0	0	0	0	0	0	5	16	GBH
		9:59	SW4	0	6	0	0	0	0	0	0	0	0	0	0	6	<u> </u>
		9:50	FB	0	0	0	0	0	0	0	0	0	0	0	2	2	BAEA
		9:00	PH1	0	0	0	0	0	0	0	0	0	0	0	0	0	I
		9:05	PH2	0	0	0	0	0	0	0	0	0	0	0	0	0	1
2/23/16	JWR	9:38	SW1	0	0	0	0	0	0	0	0	0	0	0	0	0	1
		9:11	SW2	0	0	0	0	0	0	0	0	0	0	0	0	0	I
		9:12	SW3	0	0	0	26	0	0	0	0	0	0	0	3	29	GBHE
		9:15	SW4	0	0	0	0	0	0	0	0	0	0	0	0	0	
		9:55	FB	0	0	2	0	0	0	0	0	0	0	0	0	2	1
		10:45	PH1	0	0	1	0	0	0	0	0	0	0	0	0	1	
0/04/40	0.15	10:15	PH2	0	0	0	0	0	0	0	0	0	0	0	1	1	GBH
2/24/16	GJF	10:30	SW1	0	0	0	0	0	0	0	0	0	0	2	0	2	COME
		10:35	SW2	0	0	0	0	0	0	0	0	0	0	0	0	0	l
		10:36	SW3	0	0	0	27	0	0	0	0	0	0	0	2	29	GBH
		10:37	SW4	0	0	0	0	0	0	0	0	0	0	0	0	0	DATA
	ŀ	10:00	FB	0	0	0	0	0	0	0	0	0	0	0	1	1	BAEA
	ŀ	9:30 10:15	PH1 PH2	0	0	0	0	0	0	0	0	0	0	0	0	0	GBH
2/25/16	GJF	9:45	SW1	0	0	0	0	0	0	0	0	0	0	0	0	0	1
2/23/10	031	9:45	SW2		0	0	0	0	0	0	0	0	0	0	0	0	1
	ŀ	9:51	SW3	0	0	0	21	0	0	0	0	0	0	0	0	21	1
	ŀ	9:52	SW4	0	0	0	0	0	0	0	0	0	0	0	0	0	1
		11:08	FB	0	0	0	0	0	0	0	0	0	0	0	0	0	
	ŀ	10:22	PH1	0	1	0	1	0	0	0	0	0	0	0	0	2	Ì
	ŀ	10:28	PH2	0	0	0	0	0	0	0	0	0	0	0	0	0	Ì
2/26/16	JWR	11:01	SW1	0	0	0	0	0	0	0	0	0	0	0	0	0	1
	ŀ	10:33	SW2	0	0	1	0	0	0	0	0	0	0	0	0	1	Ì
	ŀ	10:41	SW3	0	0	0	17	0	0	0	0	0	0	0	1	18	GBHE
	ŀ	10:42	SW4	0	0	0	0	0	0	0	0	0	0	0	0	0	
		13:17	FB.	0	3	1	0	0	0	0	0	0	0	0	0	4	
	ŀ	13:45	PH1	0	0	0	0	0	0	0	0	1	0	0	2	3	GBH
	ļ	13:20	PH2	0	0	0	0	0	0	0	0	0	0	0	0	0	-]
2/27/16	GJF	13:01	SW1	0	0	0	0	0	0	0	0	0	1	0	0	1	Ì
	ŀ	13:22	SW2	0	0	0	0	0	0	0	0	0	0	0	0	0	Ì
	ŀ	13:23	SW3	0	0	0	12	0	0	0	0	0	0	0	0	12	1
		13:24	SW4	0	0	0	0	0	0	0	0	0	0	0	0	0	<u> </u>
					Key: B	AEA = E	Bald Eag	le; GBF	l = Grea	t Blue H	leron; C	OME =	Commo	n Merga	nser		



		USGS:
Secchi:		Temperatures
4.0	Sun	41.8
3.0	Mon	41.9
4.0	Tue	42.1
3.0	Wed	42.4
4.0	Thurs	42.6
4.0	Fri	42.6
4.0	Sat	42.7
3.7	AVG	42.3

http://www.nwd-wc.usace.army.mil/tmt/documents/ops/temp/201602.lcol.html

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

= Out of criteria

	North L	.adder		East Ladder												
	North E				East Entrance					ntrance			South Entrance			
Date:	Differential	N1 Depth	Differential	E1 Depth	E2 Depth	E3 Depth	JP 6	Differential	W1 Depth	W2 Depth	W3 Depth	Differential	S1 Depth	S2 Depth		
2/21	1.5	9.3														
2/22	1.5	9.2													S P	
2/23	1.4	9.6													l L L	
2/24	1.3	9.7				East Lad	der down	for winte	r mainter	nance RTS	2/28/16				O N	
2/25	1.4	9.6													S E A	
2/26	1.4	9.5													L	
2/27	1.3	9.4														
AVG:	1.4	9.5														

Fishways are inspected twice daily plus one SCADA inspection.