The Dalles Dam Fishway Status Report

2/9/2015

Inspection Period: 2/1/2015 to 2/7/2015





The Dalles Project-Fisheries P.O. Box 564

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

Fishways are			

Entrance weir W2 0 depth (≥ 8') Average 9.5 Entrance weir W3 0 No criteria Average 8.3 Manually adjusted as needed. South entrance differential 2 1.0' - 2.0' Average 1.1 Out of criteria at 0.8', -0.2'; 2/2/15, Fish Unit 1 out of service. Entrance weir S1 0 depth (≥ 8') Average 12.7 Entrance weir S2 0 depth (≥ 8') Average 11.9 JUVENILE PASSAGE Sluicegate operation 0 per FPP Sluicegates 1-1 and 18-3 are open to forebay, endgate is closed Turbine trashrack drawdown NA <1.5', wkly Resume on March 1 Spill volume NA 40% ±1% Average On seal.	Fishways are inspected once per day during the winter maintenance period.											
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OTHER ISSUES:

Birds/Sea lions:

Bird observation data collected once daily. Eagle numbers appear decreasing. Refer to Avian Zone Map.

Operations:

North fish ladder dewatered Feb 3 below tailwater. Two juvenile Chinook and 4 adult lamprey released to the river. Planned return to service Feb 26. Main Unit 8 scroll case and draft tube were dewatered on Feb 2 and 3; there were no fish found.

East fishway was returned to full service on Feb 2. Entrance and exit weir calibration underway.

Gatewell drawdown and routine weir calibrations to resume March 1, 2015.

Current Outages:

T8 (MU15 & MU16) de-rated to single unit full load ops through 9/14/2017.

MU13 out of service 1/20/2015 to 2/11/2015 for oil leak repairs.

MU8 out of service 2/2/2015 to 3/26/2015 for overhaul.

North fish ladder out of service 2/3/2015 to 2/26/2015 for Annual.

Maintenance:

East exit weirs calibrated.

Weir guide repair work completed on W2 and test epoxy repair on E2. Repair on remaining weir guides scheduled for next year.

Half of east entrance weirs have new high density plastic wheels. All entrance weirs functioning.

Three collection channel dewatering pumps on deck for rehab, repair delayed due to funding shortage. Two of 6 collection channel pumps remain stuck.

Permanent east fishway exit boom delivered. Contract delay resulted in missing in water work window. Install planned for next winter.

FCQ7 electrical panel for east exit upgrade prep work completed. Planning and parts purchase underway. Installation planned for next outage season.

One of 6 east entrance diffuser valves in need of repair. Valve opened for remainder of passage season. Repair planned for next outage period.

North fishway tree removal from ladder walls in progress. Expect completion week fo Feb 17.

PMs underway on north count station equipment.

Future repair plans; Upgrade east exit weirs 154-157, removal/permanent closure of collection channel diffusers

Fish related but non-fish funded items; spillway evaluation, spillway crane rehab, spillgate 9 wire rope replacement, HDC update fish unit reliability assessment, planning upgrade fish unit breakers and fish unit transformer replacement.

All spillway items on Critical Infrastructure list and Unfunded Requirement list.

Studies:

North fishladder rock stabilization development team site visit Feb 17. Alternatives for repair of vulnerable areas to be determined.

Investigating PIT tag 15 mile creek steelhead overshooting The Dalles. Coordination discussion underway for potential sdditional sluiceway operation. . Investigating north fish count station mods for visibility improvement and use of video. Equipment purchase underway. Install Feb for testing in March.

EFL Backup; Plans/Specs 60% review underway. Includes 10'pipe from forebay to AWS. A 1400cfs flow test planned in Feb. coordination underway.

PUD 'freedom' second turbine; Field test proposal summer 2015 proposed through FPOM and SRWG. Rock plunge pool inspection Feb 16

Spill test for more fish passage to north fishladder completed. Results showed benefit. FPOM discussion to continue for when to implement.

Research/Contractors:

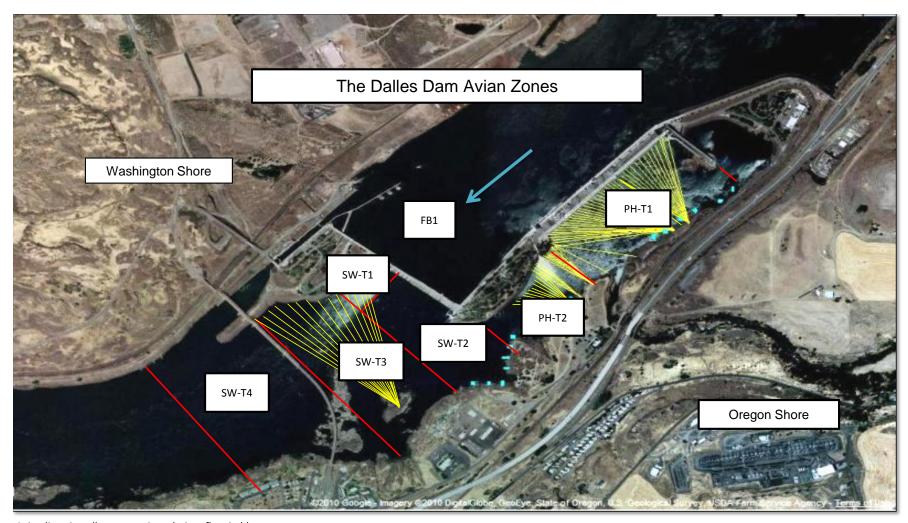
PSMFC PIT tag monitoring continues at north count station.

Normandeau fish counters to resume Apr1.

University of Idaho maintaining antennas. Continuing downloads of winter steelhead.

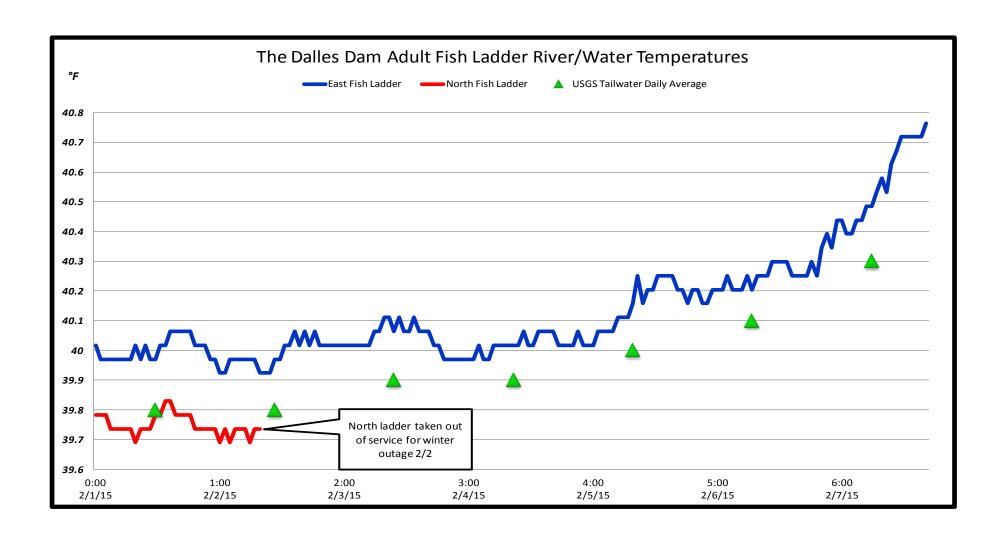
Approved by: Ron Twiner

Operation Project Manager The Dalles Dam



Avian lines in yellow, zones in red, river flow in blue.

2014 Piscivorous Bird Counts													
F=foraging, NF=non-foraging													
Date	Time (24 hr)	Zone		Gull	Cormorant		Caspian tern		Other		Total birds in zone	Observer	Notes
			F	NF	F	NF	F	NF	F	NF			
	13:04	FB	0	0	0	6	0	0	0	1	7		1 BAEA
	12:31	PH1	0	0	0	0	0	0	0	0	0		40 0 45 4
2/1/15	12:57	PH2	0	0	0	0	0	0	0	10	10	ΓV	10 BAEA
2/1/15	13:02	SW1	0	15	0	0 0	0	0 0	0	3 0	18 0	EK	3 GBH
	12:39 12:43	SW2 SW3	0	0	0	41	0	0	0	3	44		3 GBH
	13:05	SW4	0	7	0	12	0	0	0	0	19		3 9511
	9:10	FB	0	0	6	0	0	0	0	2	8		BAEA
	8:36	PH1	0	0	0	0	0	0	0	0	0		
	8:43	PH2	0	0	0	0	0	0	0	2	2		BAEA
2/2/15	9:05	SW1	0	0	0	0	0	0	0	3	3	JWR	1 BAEA, 2 GBHE
	8:44	SW2	0	0	0	0	0	0	0	0	0		
	8:45	SW3	0	0	0	29	0	0	0	0	29		
	8:47	SW4	0	0	0	0	0	0	0	0	0		
	14:45	FB	0	0	0	6	0	0	0	0	6		
	14:06	PH1	0	0	0	0	0	0	0	0	0		DAFA
2/3/15	14:14 14:51	PH2 SW1	0 0	0 0	0	0	0	0 0	0	5 0	5 0	PSK	BAEA
2/3/13	14:16	SW1	0	0	0	0	0	0	0	33	33	PSK	
	14:17	SW3	0	0	0	24	0	0	0	2	26		GBHE
	14:29	SW4	0	42	0	9	0	0	0	0	51		OBITE
	8:49	FB	0	0	0	1	0	0	0	7	8		BAEA
	7:42	PH1	0	0	0	1	0	0	0	0	1		
	7:48	PH2	0	0	0	0	0	0	0	2	2		BAEA
2/4/15	8:44	SW1	0	0	0	0	0	0	0	1	1	JWR	BAEA
	8:31	SW2	0	0	0	0	0	0	0	0	0		
	8:33	SW3	0	0	0	23	0	0	0	0	23		
	8:41	SW4	0	0	0	0	0	0	0	0	0		
	13:16	FB	0	0	0	0	0	0	0	5	5		4 BAEA, 1 GBHE
	13:23	PH1 PH2	0	0	0	0	0	0 0	0	0 7	0 7		BAEA
2/5/15	12:56 13:14	SW1	0 0	76	0	0	0	0	0	3	7 79	/WR	BAEA
2/3/13	12:59	SW2	0	2	0	0	0	0	0	0	2	JVVIC	DALA
	13:03	SW3	0	0	0	30	0	0	0	0	30		
	13:05	SW4	0	29	0	6	0	0	0	0	35		
	10:27	FB	0	0	2	2	0	0	0	11	15		BAEA
	9:33	PH1	0	0	0	0	0	0	0	13	13		11 BAEA, 2 GBHE
	9:37	PH2	0	0	0	0	0	0	0	0	0		
2/6/15	10:16	SW1	0	0	0	0	0	0	0	2	2	JWR	GBHE
	9:38	SW2	0	0	0	0	0	0	0	0	0		
	9:39	SW3	0	0	0	19	0	0	0	0	19		
	9:40	SW4	0	1	0	1	0	0	0	0	2		
	15:37	FB	0	0 0	0	6 0	0	0 0	0	0 0	6		
	14:35 14:50	PH1 PH2	0 0	0	0	0	0	0	0	0 1	0		BAEA
2/7/15	15:35	SW1	0	84	0	0	0	0	0	0	84	PSK	DAEA
2/1/10	15:00	SW1	0	0	0	0	0	0	0	38	38	1 01	Scaup
	15:03	SW3	0	0	0	28	0	0	0	0	28		Codup
	15:43	SW4	0	0	0	0	0	0	ő	0	0		



Т	emperature	s	Secchi:
	39.8		5.0
	39.8		5.0
	39.9		3.5
	39.9		5.0
	40.0		5.0
	40.1		5.0
	40.3		5.0
AVG:	40.0	AVG	4.8

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

= Out of criteria

	North	Ladder	East Ladder												
	North E	ntrance		East Entrance West Entrance South Entrance							се				
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	Spill KCFS
	1.4	9.3	1.2	10.6	10.5	10.5	12.2	1.4	9.5		9.6	1.4	13.1	12.1	
2/1/15															
			0.2	9.3	10.5	10.6	11.9	0.5	9.7		10.0	8.0	13.0	12.0	
2/2/15										TDE					
	_									working					
0/0/45			1.4	8.7	10.5	10.5	11.5	1.6	9.4	on weir.	9.5	1.4	12.5	11.5	
2/3/15															О
	1		4.5	0.0	40.5	40.0	40.0	4.0	0.4		0.0	0.0	40.4	40.4	n
2/4/15		dder out	1.5	8.8	10.5	10.6	12.0	1.6	9.4	1	9.0	-0.2	13.1	12.1	
2/4/13		rice for nter													s
	maintena		1.5	9.3	10.3	10.5	11.9	1.5	9.5	9.5	6.0	1.3	12.6	11.6	е
2/5/15	3, 2015 to		1.0	0.0	10.0	10.0	11.0	1.0	0.0	0.0	0.0	1.0	12.0	11.0	a
	20	16													ı
			1.4	3.4	11.8	11.9	12.8	1.5	9.4	9.3	7.0	1.4	11.7	11.6	
2/6/15															
															•
	1		1.5	0.9	12.1	11.9	11.5	1.5	10.1	9.6	7.1	1.6	12.7	12.6	
2/7/15						_									
AVG:	1.4	9.3	1.2	7.3	10.9	10.9	12.0	1.4	9.6	9.5	8.3	1.1	12.7	11.9	

Fishways are inspected once per day during the winter maintenance period.

Note: On 2/2/2015, north fish ladder out of service, Fish Unit 1 out of service, TDE working on east exit weir control section and entrance weir W2.



PUD auxiliary water rock plunge pool. To be engineering and geotech inspected Feb 16.