FISHWAY STATUS REPORT

Date: 11/27/2011

Inspection Period: 11/20-26/2011

THE DALLES DAM

of Engineers
Portland District

To Box 304

The Dalles, OR 97058-9998

Phone: 541-506-3800

The Dalles Project-Fisheries P.O. Box 564

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:	48.7 F
	Out of Criteria	Limit	Comments	Secchi: 6.0	Ft.
NORTH FISHWAY					
Exit differential	0	≤ 0.5′			
Count station differential	0	≤ 0.3′	Picket leads are open.		
Weir crest depth	0	1.0' ± 0.1'	·		
Entrance differential	0	1.0' - 2.0'	Average 1.4 Daily diff	erentials & weir depths,	see AVGS tab.
Entrance weir N1	0	depth (≥ 8')	Average 9.2		
Entrance weir N2		Closed	Bulkhead installed		
PUD Intake differential	0	≤ 0.5′	Trash rack raked on		
EAST FISHWAY					
Exit differential	0	≤ 0.5′			
Removable weirs 154-157	4	Per forebay	Auto adjusts 1' increments. Weir 156 inadv	erently locked out. Retur	rned to service.
Weir 158-159 differential	0	1.0' ± 0.1'			
Count station differential	0	≤ 0.3′	Picket leads are open.		
Neir 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'		erentials & weir depths,	see AVGS tab.
Entrance weir E1	0	No criteria	Average 7.5 Manually	/ adjusted.	
Entrance weir E2	0	depth (≥ 8')	Average 11.0		
Entrance weir E3	0	depth (≥ 8')	Average 11.1		
Collection channel velocity	0	1.5 - 4 fps		ocities tab for more com	plete information.
West entrance differential	0		Average 1.3		
Entrance weir W1	0	depth (≥ 8')			
Entrance weir W2	0	depth (≥ 8')	Average 8.4		
Entrance weir W3	0	No criteria	Average Closed		
South entrance differential	0			erentials & weir depths,	see AVGS tab.
Entrance weir S1	0	depth (≥ 8')		/ adjusted.	
Entrance weir S2	0	depth (≥ 8')	Average 8.2		
JUVENILE PASSAGE					
Sluicegate operation	3		Nov22 and 24 unit 8 off, and 11/23 unit 18	off line. Control notified a	and corrected.
Turbine trashrack drawdown	0	<1.5', wkly	Range: 0.0' - 0.5'		
Spill volume	0	40%, 24hr	On seal.		
Spill Pattern	0	per FPP			
Turbine Unit Priority	0	per FPP			
Turbine 1% Efficiency	0	per FPP			

OTHER ISSUES:

THE DALLES

Birds:

Many grebes, cormorants and mergansers have been observed resting around the project. See tab below for more information on species, species, number and locations. Abatement efforts to resume mid Apr for juvenile salmonid protection.

Operations:

Calibrations were completed 11/26. Two values were slightly off. To be corrected prior to next passage season.

Gatewell drawdown was completed on 11/23. The differentials ranged 0.0' - 0.5', all in criteria.

Main Unit 10 scheduled out of service week of Dec12 for servo repair. Fish salvage to occur due to potential threat of flushing fish through turbine on start up. The final fishway dewatering g schedule and task list planning completed with edits from meeting with maintenance staff. See "Dewatering Schedule" tab below for details.

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

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:

Preparing for annual maintenance of fishways. East ladder to be dewatered 12/5. East fishway workload includes; grating replacement lower ladder, repair of exit weir 154 - 5 guide wear, east weir E2 lift beam stiffener and routine annual maintenance.

Project fisheries and Environmental to meet 12/1 with firm to discuss the use goats for removing weeds around the project and fishladders.

Studies:

East fishway backup; Project engineering and maintenance moving forward with fishlock rehab. Testing Feb 2012. Maintenance completed bulkhead reseal for dewatering fishlock channel and scheduled to rehab 4 diffuser valves associate with fishlock.

Adult PIT tag study periodic planning meetings moving forward.

NOAA representatives to assess possible lamprey improvement options during 12/8 site visit.

Research/Contractors:

Washington Department of Fish and Wildlife (WDFW) fish counting completed end of October. To resume Apr1.

Oregon Department of Fish and Wildlife (ODFW) bass angling finished and 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.

Finalizing contract MIPR with USDA for avian hazing 2012.

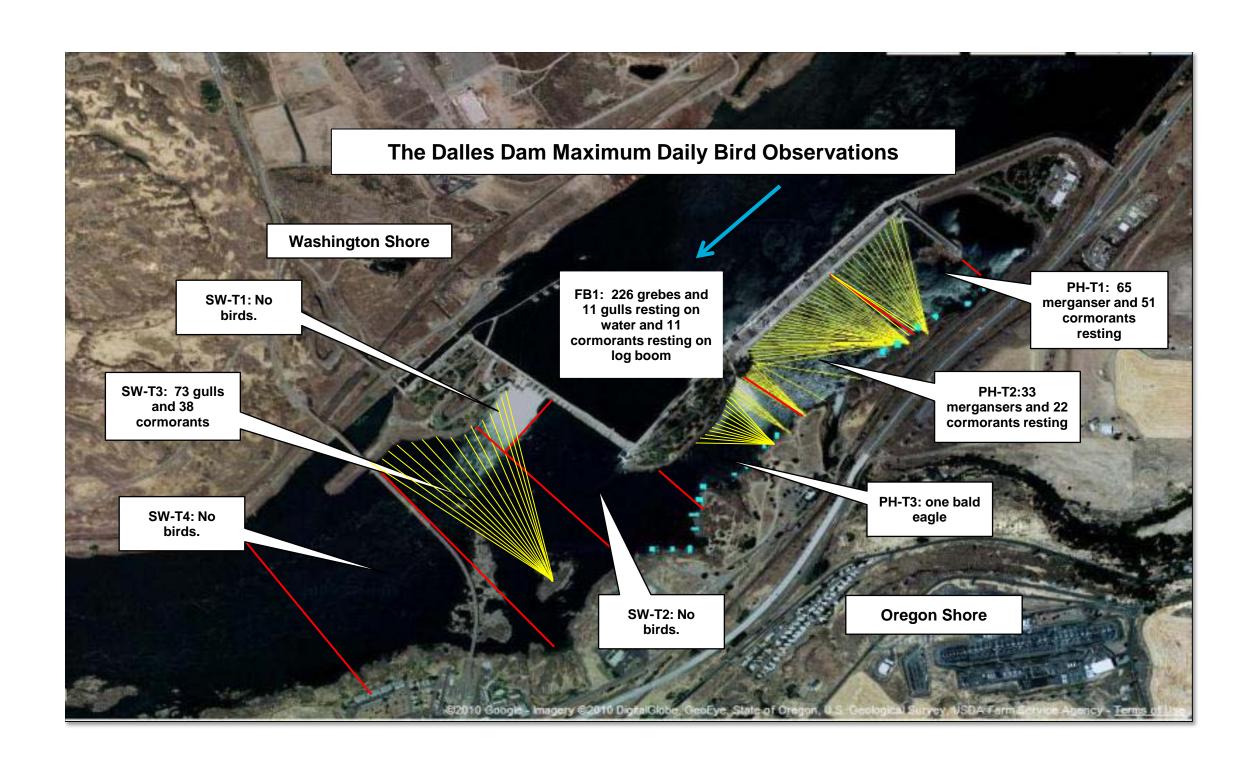
Planning is underway for Battelle's Juvenile Salmon Acoustic Telemetry System (JSATS) project and specific issues that need to be addressed for the 2012 field season. The dive team will remove the rest of the USGS derelict acoustic gear from powerhouse main turbine Unit pier-noses (5 - 22) and ice/trash sluiceway. Some spillway trolley pipes that need to be fabricated/repaired and installed as well.

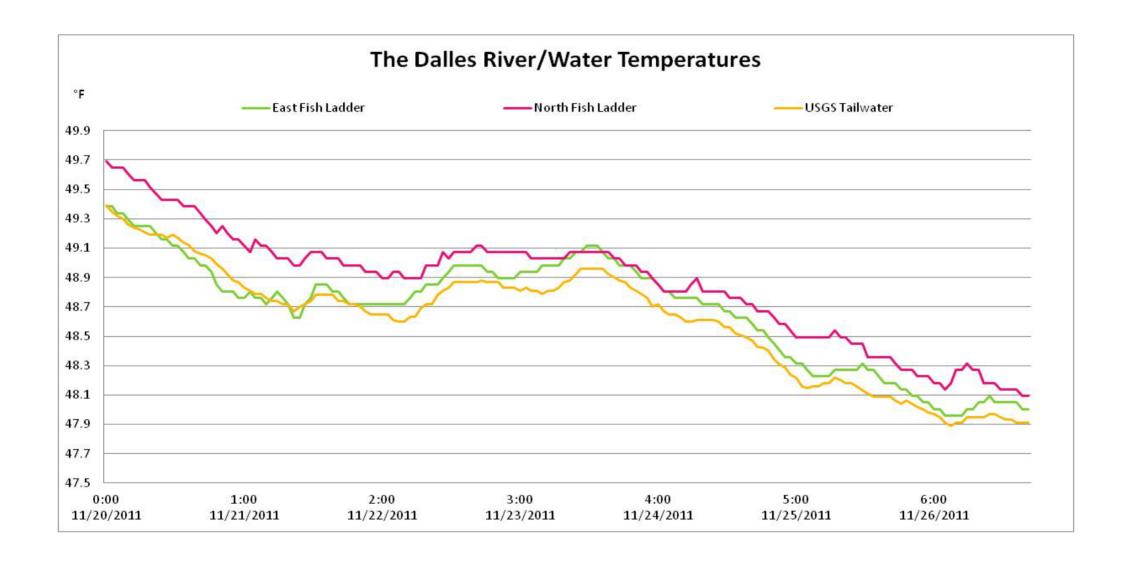
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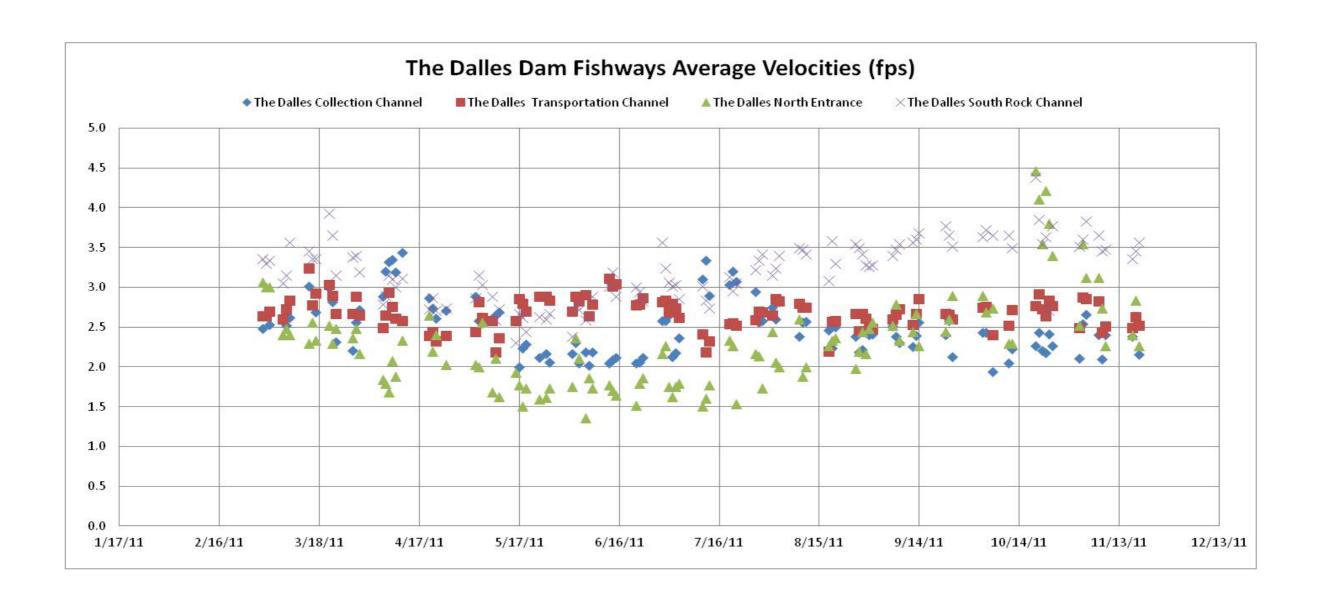
Ron D. Twiner

Operation Project Manager

The Dalles Dam









The first American Bald eagle sighting on project by Westrick Conference Center near east fish ladder south entrance. Observations planned for overwintering eagle population using westrick park to determine if negative interactions with avian lines over sluiceway.

Final2

THE DALLES DAM FISHWAY DEWATER SCHEDULE

WINTER 2011/2012

Fishlock Flow Test

-Operate

~Nov -Feb

- Install channel bulkheads and dewater (TDS)
- Clean pipes (Eng) contract
- Run fish lock and test (Eng, TDO)

East Fish Ladder

-Dewater

Dec. 5, '11 – Jan.31, '12

- PM count station and exit weirs (TDM, TDE)
- Inspect/repair joint over fish office (TDS?)
- Resume grating installation (Eng, TDS) priority 3
- Count station grating access and storage hooks (TDS)
- Renumber exit staff gages (TDF)
- Clean Stillwell ports (TDM)
- 154-9 weir guide inspect/repair (TDS) priority 1

East Entrances, Coll. Chan., Trans. Chan.-Dewater

- PM entrance weirs (TDM, TDE, TDS)
- Install new S1 weir (TDS) priority 4
- Complete FSQ6 replace (Eng)
- Clear stillwell ports (TDM)
- Add stiffener to E2 weir extension (TDS) priority 2

Ice/Trash Sluiceway

-Inspect

~Dec-Feb

Dec. 6, '11

• Inspect flume spalling d/s endgate (TDF)

North Fish Ladder

- Dewater

Feb 1, '12 – Feb 28, '12

- PM count station and exit weirs (TDM, TDE)
- Continue brush removal (TDF)
- Check count station grating clips (TDS)
- Count station grating access and storage hooks (TDS)
- Count station brush bushing (TDM)

North Entrance

-ROV inspect Feb 6, '12

- Inspect diffuser grating (Eng)
- Clear Stillwell ports (TDM)

Temp:		Secchi:			
49.2	SUN	6.0			
48.9	MON	6.0			
48.9	TUES	6.0			
49.0	WED	6.0			
48.7	THUR	6.0			
48.3	FRI	6.0			
48.1	SAT	6.0			
48.7	AVG:	6.0			

AVG:

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

	North Fis	h Ladder	East 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	% Spill
11/20/11	1.4	9.2	1.4	8.1	11.0	11.0	10.3	1.5	8.2	8.1		1.4	8.3	8.3	
11/20/11	1.4	9.1	1.4	8.1	11.0	11.1	10.6	1.5	8.1	8.1		1.4	8.3	8.3	
11/20/11			1.4	7.9	11.1	11.1		1.4	8.3	8.2		1.5	8.1	8.1	
11/21/11	1.3	9.2	1.6	8.0	10.9	11.0	9.5	1.3	8.3	8.2		1.4	8.1	8.2	
11/21/11	1.4	9.1	1.5	8.0	11.0	11.1	10.2	1.4	8.3	8.2		1.4	8.2	8.2	
11/21/11			1.3	8.0	11.0	11.1		1.2	8.2	8.3		1.3	8.3	8.2	
11/22/11	1.3	9.4	1.8	8.0	10.9	10.9	10.1	1.8	8.0	8.0		1.6	8.2	8.2	
11/22/11	1.4	9.2	1.7	7.9	10.9	10.9	10.7	1.4	8.4	8.5		1.4	8.2	8.2	
11/22/11			1.2	8.1	11.1	11.1		1.2	8.6	8.6		1.2	8.5	8.3	
11/23/11	1.4	9.3	1.7	8.8	11.0	11.0	10	1.4	8.5	8.5		1.4	8.2	8.1	
11/23/11	1.4	9.3	1.6	9.0	10.9	10.9	10.3	1.4	8.6	8.5		1.4	8.2	8.2	
11/23/11			1.5	8.0	11.1	11.1		1.2	8.7	8.7		1.2	8.4	8.3	
11/24/11	1.3	9.2	1.4	8.9	11.0	10.9	8.9	1.2	8.6	8.5		1.3	8.2	8.2	
11/24/11	1.3	9.3	1.6	8.9	10.9	10.9	9.7	1.3	8.5	8.5		1.3	8.2	8.2	
11/24/11			1.3	9.1	11.0	11.1		1.2	8.5	8.4		1.3	8.2	8.1	
11/25/11	1.3	9.3	1.6	3.0	11.0	11.1	9.4	1.3	8.5	8.6		1.4	8.1	8.0	
11/25/11	1.3	9.3	1.6	5.0	11.3	11.3	9.4	1.3	8.5	8.4		1.4	8.1	8.1	
11/25/11			1.1	9.1	11.0	11.0		1.1	8.6	8.5		1.2	8.3	8.2	
11/26/11	1.4	9.3	1.9	4.9	11.3	11.3	10	1.4	8.2	8.3		1.4	8.2	8.3	
11/26/11	1.4	9.2	1.2	5.0	11.3	11.3	9	1.2	8.6	8.5		1.2	8.3	8.2	
11/26/11			1.3	5.0	11.3	11.4		1.2	8.5	8.4		1.3	8.2	8.3	
AVG:	1.4	9.2	1.5	7.5	11.0	11.1	9.9	1.3	8.4	8.4	Closed	1.4	8.2	8.2	

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