



DEPARTMENT OF THE ARMY  
CORPS OF ENGINEERS, PORTLAND DISTRICT  
BONNEVILLE LOCK AND DAM PROJECT  
PO BOX 150  
CASCADE LOCKS OR 97014-0150

CENWP-OD-B

05 January 2015

MEMORANDUM FOR Biologist, Operations Division (CENWP-OD)

SUBJECT: Bonneville Project, Fishway and Fish Activities for Week 01 of 2015, which covers the period from 28 December 2014 – 03 January 2015.

**1. OPERATION SUMMARY:**

a. Daily average river flows ranged from 169.4 to 198.9 kcfs. Daily average project tailwater ranged from 16.1 to 16.9 msl. Daily average powerhouse forebay elevation ranged from 73.0 to 73.8 msl. Daily average water temperature ranged from 42° to 45°F. Secchi disk measurements ranged from 4' to 7' or higher.

b. Spill Bays 01 and 18 provide attraction flow for Cascades Island and B-branch, respectively. Spill bay 01 was closed on 01 December coinciding with the dewatering of Cascades Island for winter maintenance. Daily average spill remained at 0.5 kcfs this week.

(1) Due to a failed hoist brake, spill bay 17 has been operated manually since 11 March. Parts are on order. It's expected to return to service in late January.

c. Unit Operation. Powerhouse one became the priority powerhouse on 01 December. Main unit draw downs are measured every Monday and more frequently as needed.

(1) Table 1. Unit Outages.

Unit	OOS Date	RTS Date	Reason
11	0900 on 09 Sep 2012	---	High thrust bearing temps
F1	0001 on 01 Dec	---	2 year overhaul
F2	1000 on 15 Dec	---	Synch Wiring

d. Unit 11 is estimated to return to service March 2015.

**2. ACTIVITIES:**

a. Auxiliary Water System Closures.

- (1) FV1-1 was closed for cleaning from 1504 to 1534 on 31 Dec.
- (2) FV3-7 floated debris from 1805 on 28 Dec. to 0500 on Dec. 29, 1750 on 29 Dec. to 0500 on 30 Dec., 1750 on Dec. 30 to 0500 on 31 Dec., 2200 on 03 Jan to 0500 on 04 Jan.
- (3) FV3-9 floated debris from 1805 on 28 Dec. to 0500 on Dec. 29, 1750 on 29 Dec. to 0500 on 30 Dec., 1750 on Dec. 30 to 0500 on 31 Dec., 2200 on 03 Jan to 0500 on 04 Jan.
- (4) FV1-1 floated debris from 1805 on 28 Dec. to 0500 on Dec. 29, 1750 on 29 Dec. to 0500 on 30 Dec., 1750 on Dec. 30 to 0500 on 31 Dec., 2200 on 03 Jan to 0500 on 04 Jan.

b. STS/VBS inspections. No inspections occurred this week.

c. Dewatering and Fish Salvage. No dewaterings occurred this week.

**3. RESEARCH:**

a. Normandeau – Fish Counting. Video monitoring continues.

**4. FISHWAYS:**

a. Project biologists inspected 29 – 31 December.

b. Fish passage plan observations.

(1) Table 4. FPP out of criteria items.

Date	Location	FPP Items	Cause	Response
<b>BRADFORD ISLAND</b>				
12/30	WG-64	Submergence > 8.4'	Unknown	None
12/31	B-branch	Incorrect diffuser position	TW sensor malfunction	Diffusers in manual
12/31	B-branch	Entrance diff < 1.0'	TW sensor malfunction	Diffusers in manual
<b>CASCADES ISLAND – Dewatered</b>				
<b>WASHINGTON SHORE – Dewatered</b>				

(2) WG-1, one of the south PH1CC entrances, experienced a gate failure on 17 November. The gate fell and the picking beam fell into the water. Repairs will require the ITS to be closed and are being coordinated for April, 2015.

CENWP-OD-B

SUBJECT: Bonneville Project, Fishway and Fish Activities for Week 01 of 2015, which covers the period from 28 December 2014 to 03 January 2015.

(3) A-branch diffuser FG3-3 is mechanically bound. Repairs are not possible until A-branch is dewatered below tailwater during the 2015/16 winter maintenance period.

c. Fishway Temperatures. Temperatures are taken from 01 March through 30 November.

d. Zebra Mussel Monitoring. No signs of colonization were observed this reporting week.

e. Adult Fishways.

(1) Calibration occurred on 31 December.

(2) 11 of 12 floating orifice gates (FOGs) are installed; one gate is out for maintenance. FOG SLEDs are installed.

(3) All SLEDs are removed.

f. Juvenile Fishways.

(1) The south end gate of the Ice and Trash Sluiceway (ITS) was removed for repairs. Plating has been placed over the bottom of the guide slot to minimize fish impacts. Reinstallation dates are currently being coordinated.

(2) The DSM remains in service.

(3) The hydro-cannon remains out of service.

(4) The B2CC remains closed.

g. Lamprey Fishways.

(1) All LPSs remain out of service.

CENWP-OD-B

SUBJECT: Bonneville Project, Fishway and Fish Activities for Week 01 of 2015, which covers the period from 28 December 2014 to 03 January 2015.

**5. CONSTRUCTION:**

a. Navigational lock mooring dolphin. Installation by a contractor is currently scheduled for January. During that time the lock will need to be briefly shut down.

**6. HAZMAT, SPILLS AND CLEANUP:** Nothing to report.

**7. TELETYPES CURRENTLY IN EFFECT:**

a. A teletype sent on 29 August provides the spill caps and lack of load conditions to be used from 1 September through 31 December.

b. A teletype sent on 18 December provides BON tailwater operations for Chum incubation. Effective 1500 on 19 December until further notice, operate to maintain a minimum tailwater of 13.0' at all hours. This operation negates previous Chum tailwater operation teletypes.

c. A teletype sent on 18 December provides the spill caps and lack of load conditions to be used from 1 January until further notice.

JERRY A. CARROLL  
Operations Manager  
Bonneville Project