



DEPARTMENT OF THE ARMY
CORPS OF ENGINEERS, PORTLAND DISTRICT
BONNEVILLE LOCK AND DAM PROJECT
PO BOX 150
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CENWP-OD-B

26 September 2013

MEMORANDUM FOR Biologist, Operations Division (CENWP-OD)

SUBJECT: Bonneville Project, Fishway and Fish Activities for Week 38 of 2013, which covers the period from 15 through 21 September 2013

1. OPERATION SUMMARY:

a. Daily average river flows ranged from 84.9 to 115.0 kcfs. Daily average project tailwater ranged from 8.9' to 10.9' msl. Daily average powerhouse forebay elevation ranged from 74.8' to 75.5' msl. Daily average water temperatures ranged from 70°F to 73°F. Secchi disk measurements remained equal to or greater than 7.0'.

b. Spill Bays 01 and 18 provide attraction flow for Cascades Island and B-branch, respectively. They are open 6" during daylight hours. Daily average spill ranged from 1.2 to 1.4 kcfs.

c. Unit Operation. Powerhouse Two is the priority powerhouse.

(1) Unit 01 went out of service at 0946 on 23 July for a 5 year overhaul.

(2) Unit 06 was out of service from 0104 to 1700 on 18 September for governor repair.

(3) Unit 11 went out of service at 0900 on 09 September 2012 for high thrust bearing temperatures.

(4) Unit 14 went out of service at 0741 on 09 September for digital governor installation.

(5) Unit 18 was out of service from 0933 to 1216 on 16 September to clean the strainer.

d. Fish Units. Second Powerhouse fish units provide attraction flow for the Washington Shore (WS) fish ladder. The units may be placed on standby, as necessary, during nighttime hours to float debris. Gatewell drawdowns are measured on Tuesdays and more frequently as needed.

2. ACTIVITIES:

a. Auxiliary Water System Closures. The following AWS closures occurred this reporting week:

(1) FV1-1 was closed for cleaning from 0702 to 0731 on 16 September.

(2) FV 3-7 was closed for cleaning from 0748 to 0759 on 16 September.

b. STS/VBS inspections. Table 3. STS and VBS inspection.

<i>Unit</i>	<i>Date</i>	<i>Run Hours</i>	<i>Comments</i>
11	N/A	OOS	Unit 11 remains out of service
12-18	N/A	N/A	Inspection scheduled for 23 September

c. Dewatering and Fish Salvage. No fish salvage activities occurred this reporting week.

3. RESEARCH:

a. CRITFC. Annual Chinook, Coho, sockeye, and steelhead sampling in the AFF continues. Modified trapping procedures under FPP App. G, Section 4 began on 5 August and continued through 19 September. Normal trapping resumed on 20 September.

b. NOAA – Lamprey. LPS count network installed. HD-PIT tagging continues from the AFF traps.

c. Normandeau – Fish Counting. Visual counting continues.

d. PSMFC – Smolt Monitoring Program. Juvenile fish condition and index monitoring continues. Higher temperature sampling protocols continued this week due to water temperatures above 70°F. Modified sampling during higher temperatures means Index/Condition sampling will take place every other day until the daily average descends to 69.5°F. Sample and bypass mode will occur on alternating 24 hour periods (0700-0700). No research fish were collected. Fallbacks recorded crossing the separator bars this reporting week: 24 salmon. Truck releases of summer out-migrants originating from Snake River dams began on 18 August.

e. University of Idaho – AFF. USACE funded adult salmonid sampling ceased on 5 August when daily average river temperatures reached 70°F. Sampling resumed on 20

September after daily average water temperatures dropped back below 70 °F as indicated by the AFF temperature probe; online temperatures were unavailable.

f. University of Idaho – Lamprey. HD-PIT and JSATs tagging continues from the AFF traps.

g. Oregon and Washington Departments of Fish and Wildlife – Tule counting. Tule counting began on 15 August.

4. FISHWAYS:

a. Project biologists inspected 15 through 21 September.

b. Fish Passage Plan Observations.

(1) Table 4. FPP Out of Criteria items.

Date	Location	FPP Items	Cause	Response
BRADFORD ISLAND (BI)				
9/17,19-20	PH1CC	South ent diff < 1.0'	Unknown	None
CASCADES ISLAND (CI) – Nothing to report				
WASHINGTON SHORE (WS) – Nothing to report				

(2) PH1CC diffuser FG2-19 is partially open. Repairs will occur when the PH1CC is dewatered. The next possible time period will be 2013/14 winter maintenance.

(3) A-branch diffuser FG3-3 and 3-6 are partially open in manual. FG3-5 is closed in manual. Repairs will occur when the Bradford Island ladder is dewatered. The next possible time period will be 2013/14 winter maintenance.

(4) PH2CC diffuser A2 is stuck closed. Diffuser B7 has been closed until repairs to the limit torque can be performed. The next possible time period will be 2014/15 winter maintenance.

c. Fishway Temperatures. Temperatures are normally taken from 01 March through 30 November. Forebay temperature is taken from the USACE website.

Table 5. Daily Average Temperature in Degree Fahrenheit (F).

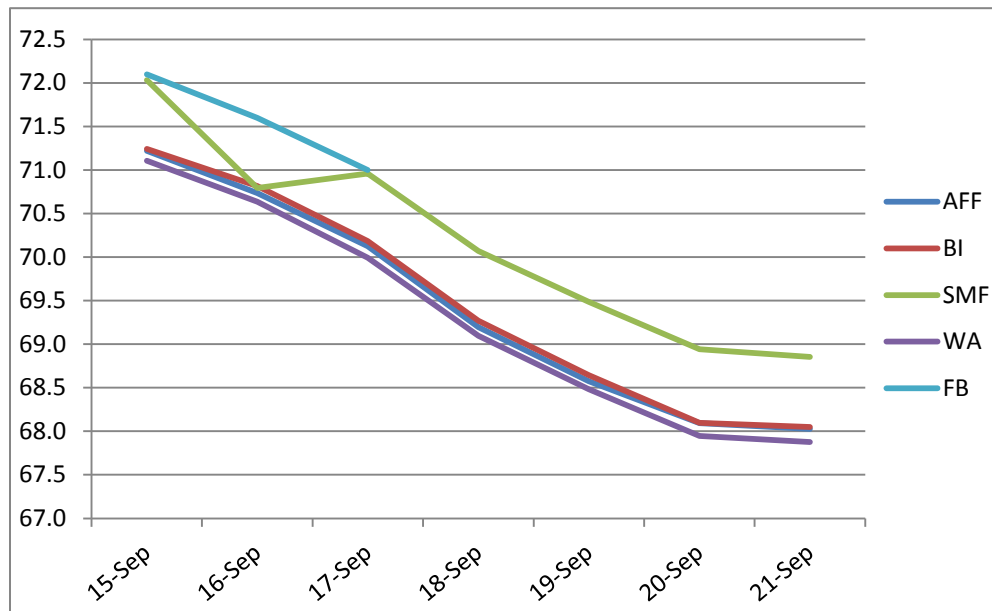
Date	Daily Averages				
	AFF	BI	SMF	WA	FB
15-Sep	71.2	71.2	72.0	71.1	72.1
16-Sep	70.7	70.8	70.8	70.6	71.6

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17-Sep	70.1	70.2	71.0	70.0	71.0
18-Sep	69.2	69.3	70.1	69.1	---
19-Sep	68.6	68.6	69.5	68.5	---
20-Sep	68.1	68.1	68.9	67.9	---
21-Sep	68.0	68.0	68.9	67.9	---

Graph1. Daily Average Temperature in Degree Fahrenheit (F).



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

e. Adult Fishways.

(1) Calibration was checked on 21 September.

(2) 10 of 12 floating orifice gates (FOGs) are installed. Two gates remain out for maintenance. Sea lion barriers are in place on all installed FOGs.

(3) All SLEDs are removed.

(4) All ladders remain in service.

f. Juvenile Fishways.

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(1) The intake gate for the downstream exit of the Ice and Trash Sluiceway (ITS) was discovered to be in serious disrepair on 01 September. The cable holding the gate is frayed and emergency repairs are underway. Bulkheads were placed in front of all chaingates. Repairs are ongoing and are estimated to take several weeks.

(2) DSM2 remains in service.

(3) The hydrocannon remains in service.

(4) The B2CC remains closed.

(5) All avian arrays are installed.

g. Lamprey Fishways.

(1) The Bradford Island LPS remains in service.

(2) The WA shore AWS LPS remains in service.

(3) The WA shore LPS/LFS was taken out of service on 30 August due to LPS pump and electrical issues. The LFS butterfly valve remains closed.

(4) Cascades Island LPS remains in service.

5. CONSTRUCTION: WA Shore LPS/LFS Installation. Flume construction is complete. Repairs and modifications to the LFS are tentatively scheduled for October/November 2013.

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

7. TELETYPES CURRENTLY IN EFFECT:

a. A teletype sent on 04 September cancels a previous teletype intended to improve PH2 gatewell conditions for passing fish. Effective immediately all units are to resume operating within the upper and lower limits of the 1% efficiency range as defined in the FPP section 5.

b. A teletype sent on 19 September updates previous teletypes for treaty fishing. From 0600 on 24 September through 1800 on 27 September, request that Bonneville

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pool operate within a 1.5' band as a hard constraint, with emphasis on steady nighttime operations.

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