

CENWP-OP-B

MEMORANDUM FOR THE RECORD

SUBJECT: BONNEVILLE DAM WINTER FISHWAY MAINTENANCE 2007/2008.

1. This is a working document detailing Bonneville Dam winter fishway maintenance, 2007/2008. Reviewers can expect changes as we approach the winter maintenance season.

2. ADULT FISHWAYS

2.1. Fish Unit Outages

- 2.1.1. Fish Unit 1: **01 Dec 07 – 01 Jan 08**, annual overhaul.
- 2.1.2. Fish Unit 2: **01 Jan 08 – 01 Feb 08**, annual overhaul.

2.2. Adult Fish Facility (if necessary)

- 2.2.1. Routine maintenance.
- 2.2.2. Repair broken gate cranks and pulleys.
- 2.2.3. Repair flume gates.
- 2.2.4. Pressure wash the lab and handrails.
- 2.2.5. Repair/Replace netting over flumes. (Project Fisheries)

2.3. Washington Shore Ladder (NOT going OOS)

- 2.3.1. Install SLEDS or acoustic deterrents by **28 Feb 08**
- 2.3.2. South monolith dewatering 2008/2009

UMT specific items (01 Oct 07 – March 08 due to VBS mods)

- 2.3.3. Pull Cascades Island picket leads on **01 Oct 07**.
- 2.3.4. Open Cascades Island exit on **01 Oct 07** (raise lamprey barrier prior to opening exit).
- 2.3.5. Install UMT bulkhead on **north** end on **01 Oct 07**

2.4. Cascades Island Ladder. (Not going OOS)

- 2.4.1. Open fish exit on **01 Oct 07**
- 2.4.2. Open barrier at count station on **01 Oct 07**
- 2.4.3. Install SLEDS or acoustic deterrents by **28 Feb 08**
- 2.4.4. Go to orifice flow after BI comes back, if time.
- 2.4.5. Dewater to tailwater.
- 2.4.6. Repair FG6-10.
- 2.4.7. Provide power to FG6-14 (electricians and riggers)

2.5. Bradford Island Ladder (A&B-Branches 01 Dec 07 – 28 Feb 08)

- 2.5.1. Go to orifice flow on **01 Dec 07**
- 2.5.2. Dewater to tailwater on **03 Dec 07**
- 2.5.3. Inspect Bradford Island exit trashrack.
- 2.5.4. Inspect the FV3-7 AWS channel.
- 2.5.5. Pull accelerator wall bulkhead and add bumpers.
- 2.5.6. Maintain the LPS, hard plumb the lamprey pumps. (Mechanics)
- 2.5.7. Inspect PH1 PCC and B-Branch fishway **23 Jan 08**. (ROV inspection)
- 2.5.8. Install SLEDS or acoustic deterrents by **28 Feb 08**

B-Branch specific items

- 2.5.9. Calibrate B-Branch water elevation sensors.
- 2.5.10. Dredge BI fish exit. 2008/2009 (contractor)

A-Branch specific items

- 2.5.11. Dewater below tailwater on **10 Dec 07**
- 2.5.12. Install transverse bulkhead at U10.
- 2.5.13. Repair FG2-22A and FG2-19.
- 2.5.14. Repair FG3-3, 3-4, 3-5, 3-6 (mechanics/electricians)
- 2.5.15. Inspect FV3-7 AWS conduit.
- 2.5.16. Develop plan for removal of FV3-8. (*need to start planning early*)
- 2.5.17. Engineer plan for filling FG2-2 and FG2-3. (Still looking at this?)
- 2.5.18. Remove wooden bulkhead at south end of PCC. 2008-2009
- 2.5.19. Calibrate collection channel, tailwater, orifice gate, and entrance gate transducers.

3. JUVENILE FISHWAYS

- 3.1. **Juvenile Monitoring Facility (31 October 07 – 28 February 08)**
 - 3.1.1. Blow out hydro cannon lines on **01 Sep 07** (Operators)
 - 3.1.2. Drain and inspect sample flume on **31 Oct 07**. (Project Fisheries)
 - 3.1.3. Inspect and PM equipment.
 - 3.1.4. Inspect flume joints. Re-caulk as needed.
 - 3.1.5. Repair and winterize 2 and 3 way rotating gates.
 - 3.1.6. Replace charcoal filters.
 - 3.1.7. Drain and inspect DSM2 and bypass flume on **19 Dec 07**. (Project Fisheries)
 - 3.1.8. Inspect/Repair lifting cables for the fish lifts. (Riggers)
 - 3.1.9. PIT tag detection systems (PSMFC)
 - 3.1.10. New seals on upper switchgate.
 - 3.1.11. Seal off drain pipe to western wildlife pond.
- 3.2. **Second Powerhouse JBS (17 Dec 07 – 01 Feb 08)**
 - 3.2.1. VBS mods in Units 14, 18, and 17 (gap closure device only) begin on **01 Oct 07**
 - 3.2.2. Pull STSs **17-18 Dec 07**
 - 3.2.3. Turn off orifice lights on **18 Dec 07**
 - 3.2.4. Dewater DSM on **19 Dec 07**
 - 3.2.5. Inspect two mile pipe on **09 Jan 08**
 - 3.2.6. PM equipment.
 - 3.2.7. Replace orifice lenses.
 - 3.2.8. Inspect/Repair screen cleaners. Needs to be operable.
 - 3.2.9. New gatewell dipping basket. (contractors. \$\$ from CG)
 - 3.2.10. Install STSs starting **20 Feb 08**
 - 3.2.11. Water up when STSs are installed (not later than **28 Feb 08**)
- 3.3. **B2 Corner Collector (31 August 07 – 01 April 2008)**
 - 3.3.1. PIT tag follow on (PSMFC).

4. SPILLWAY

- 4.1. Test all gates.

KEY TO COLORS-

Black- normal/routine dewatering work

Orange- work to be done by contractors or researchers.

Blue- work to be done by Fisheries

Pink- highlights special requests or non-routine work items.