

AGENDA

Fish Passage O&M Coordination (FPOM) Team
NOAA Fisheries, Mt. St. Helens room (10th floor)
September 11, 2008 (0900-1200)
Call in #210-280-5839, passcode is 3943146

1. Review/Approve Agenda and August Minutes (Klatte)
2. Action Items
 - 2.1. [long time ago] BON PH1 Grizzlies. **ACTION:** Hausmann will investigate options for modifying the PH1 draft tube drains.
 - 2.2. [long time ago] Switchgate seals at BON and JDA. **ACTION:** JDA will move forward with the airbladder seals. NOAA worries about fish being able to access areas under the gate. BON will continue moving forward with reducing leakage around and under the gate. **STATUS:** *JDA has turned the task over to the Small Projects team at RDP. Mike Adams is the POC.*
 - 2.3. Jul 08] AFF trapping protocols when water temperatures reach 70°F. **ACTION:** CRITFC will look PIT tag data for travel time from the AFF to BO3.
 - 2.4. [Jul 08] Water Quality ad-hoc committee. **ACTION:** Klatte will convene the meeting to discuss water quality testing protocols and needs.
 - 2.5. [Aug 08] Kaplan Blade Study. **ACTION:** HDC (Rod Wittinger) will notify FPOM when the study is at a good point for FPOM review.
 - 2.6. [[Jun 08] BON FOG lifting beam status. **ACTION:** Hausmann will inquire about completion time. **STATUS:** *BON will fabricate the beam in September.*
 - 2.7. [Aug 08] JDA MU1 outage. **ACTION:** Cordie will need to look at the spill and see if attraction flow might be provided to reduce passage delay. If the Project will swap MU1 with MU3, then this won't be an issue. **STATUS:** *The Project switched MU1 with MU3.*
 - 2.8. [Aug 08] Non Native fish issues. **ACTION:** Mackey to send Wills the Predation Workshop announcement. **STATUS:** *completed on 20 August.*
 - 2.9. [Aug 08] Bradford Island transformer pad. **ACTION:** Mackey and Schwartz will get more information as to the critical nature of getting the pad done now as opposed to November or winter maintenance season. **STATUS:** *Agenda Item #7.*
 - 2.10. [Aug 08] FPC descaling criteria. **ACTION:** McCann will provide a schedule for the development of the criteria, to FPOM by 11 September. Have criteria drafted by January 2009. **STATUS:** *to be discussed under Agenda Item #12.*
 - 2.11. [Aug 08] SMP task group. **ACTION:** Dykstra will send out an invitation for the task group to meet prior to Hurson leaving. **STATUS:** *Meeting held on 3 September. Agenda Item #12.*
 - 2.12. [Jul 08] McNary dewatering screen monitoring. **ACTION:** Swenson will put together a memo detailing the recommendation. **STATUS:** *to be discussed under Agenda Item #14.*
 - 2.13. [Jul 08] LGS back flushing of orifices. **ACTION:** Hevlin will meet with NWW to discuss options. He will present findings to FPOM in September. **STATUS:** *Agenda Item # 17.*
3. Updates. (Klatte/Dykstra)
 - 3.1. BON Main Dam bay 15.
 - 3.2. BON U6 orifice position.
 - 3.3. Water temps/sampling. Temps have reached 69.5°F. All facilities are back to normal sampling.
 - 3.4. TDA PUD/ fishway outage on 6 September.
 - 3.5. TDA PUD bridge demo schedule.
 - 3.6. NWP winter maintenance schedules. (attached to the agenda)
 - 3.7. NWW fish truck release site at BON.
4. **BON split flows.** (Hausmann) BON split flows due to fish numbers. One issue- GDACS operates PH2 units, when flows are split, at the lower end of the 1% band. Fisheries attempted to adjust those units to the mid/upper end on 4 Sept. Second issue- fish counts used when deciding to split flows.

5. **BON PH1 fish screen install date.** Fish screens are not installed at PH1 until 15 September. If flows are split prior to 15 September, adult fallback and kelts may pass through unscreened turbines.
6. **BPA unit limitations at BON PH2.** (Bettin)
7. **BON Bradford Island transformer pad.** (Schwartz). The project team would like to request moving from 3 November to mid October.
8. **BON AFF picket leads.**
9. **Galvanized grates.** (Clugston/ Cordie) The second round of test results and a discussion about powder coating as a method of painting galvanized grates.
10. **JDA North ladder updates and early coordination.** (Cordie)
11. **JDA SMF sampling.** (Cordie) Sampling hours over 70F. Discussion about condition sampling.
12. **Presentation on efforts to improve fish condition collection and reporting.** (Dykstra/McCann).
13. **WDFW discussion of the jack size.** (Richards)
14. **MCN dewatering screen monitoring.** (Swenson)
15. **MCN OR fish ladder exit coordination.** (Dykstra)
16. **MCN fish pump coordination.** (Dykstra)
17. **LGS orifice backflushing.** (Hevlin)
18. **Task Group updates**
 - 18.1. Fishway velocity (*Chair-Cordie, Fredricks, Lorz, Meyer, Mackey*).
 - 18.2. Lamprey (*Chair-Cordie, Clugston, Dykstra, Lorz, Mackey, Meyer, Moody, Moser, Peery, Rerecich, Zyndol*)
 - 18.3. PH2 VBSs (*Chair- Hausmann, Benner, Fredricks, Klatte, Lorz, Mackey, Meyer, Wills*).
 - 18.4. Pinnipeds (*Chair-Stansell, Bettin, Benner, Brown, Fredricks, Hausmann, Kruger, Stephenson, Richards, Wills*)
 - 18.5. TIES (*Chair-Klatte, Bettin, Benner, Fredricks, Kruger, Mackey, Schwartz, Wills*)
 - 18.6. Water Quality (*Chair- Klatte*)
19. **FPP proposed changes.**
 - 19.1. BON sturgeon language. (incorporates changes from May 2008 mtg)
 - 19.2. BON 2.4.2.2.n.1 relocation.
 - 19.3. TDA and JDA velocity measurement language.
 - 19.4. Appendix G- BON protocols section 4.2. (incorporates changes from July 2008 mtg)
 - 19.5. Appendix G- BON protocols for holding lamprey.
 - 19.6. Appendix G- BON protocols for trapping lamprey at water temps of 70°-72°F.
 - 19.7. BON shad passage mode criteria.
 - 19.8. Appendix A- increasing the 72 hour heat run time.
20. **Other**
21. **Next Meeting- October 9th at NOAA.**

MEMORANDUM FOR THE RECORD

SUBJECT: BONNEVILLE DAM WINTER FISHWAY MAINTENANCE 2008/2009.

1. This is a working document detailing Bonneville Dam winter fishway maintenance, 2008/2009. 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 08 – 20 Jan 09**, annual overhaul.
- 2.1.2. Fish Unit 2: **21 Jan 09 – 28 Feb 09**, annual overhaul.

2.2. Bradford Island Ladder (A&B-Branches 01 Dec 08 – 09 Jan 09)

- 2.2.1. Go to orifice flow on **01 Dec 08**
- 2.2.2. Dewater to tailwater on **03 Dec 08**
- 2.2.3. Dewater diffuser pools on **04 Dec 08**.
- 2.2.4. Inspect Bradford Island exit trashrack.
- 2.2.5. Maintain the LPS.
- 2.2.6. Adjust the brush cleaner so it cleans the crowder.
- 2.2.7. Repair metal hanging off upstream edge of crowder.
- 2.2.8. Paint border of crowder white.
- 2.2.9. Remove algae from window and crowder.
- 2.2.10. Provide additional strapping for PIT tag equipment, as necessary. (Electricians)
- 2.2.11. Removal of weeds around the PIT tag room and transceiver enclosures.
- 2.2.12. Inspect PH1 PCC **15 Jan 09**. (ROV inspection)
- 2.2.13. Install SLEDS or acoustic deterrents by **01 Feb 08**
- 2.2.14. Calibrate B-Branch water elevation sensors.
- 2.2.15. Dredge BI fish exit. 2009/2010 (contractor)

A-Branch specific items

- 2.2.16. Install south end bulkhead
- 2.2.17. Inspect and repair FV1-1. (Include a NWP structural engineer).
- 2.2.18. Calibrate CC, TW, and entrance gate transducers.
- 2.2.19. Repair FG2-22A and FG2-19.
- 2.2.20. Repair FG3-5,(mechanics/electricians)
- 2.2.21. Develop plan for removal of FV3-8.
- 2.2.22. Engineer plan for filling FG2-2 and FG2-3.
- 2.2.23. Remove wooden bulkhead at south end of PCC. 2009-2010

2.3. Adult Fish Facility (29 Dec 08-1 Mar 09)

- 2.3.1. Go to orifice flow on **12/29/08**
- 2.3.2. Chase fish to the ladder on **1/08/09**
- 2.3.3. Dewater exit section on **1/08/09**
- 2.3.4. Dewater entrance on **1/12/09**
- 2.3.5. Routine maintenance.
- 2.3.6. PM bridge crane.
- 2.3.7. Repair broken gate cranks and pulleys.
- 2.3.8. Inspect and repair weir doors.
- 2.3.9. Inspect floor drain.
- 2.3.10. Pressure wash the lab and handrails. (Painters)
- 2.3.11. Replace silicone around the anesthetic tank bottom. (Painters)

2.3.12. Repair/Replace netting over flumes. (Project Fisheries)

2.3.13. Clean fish viewing window.

2.4. Washington Shore Ladder (10 Jan 09- 28 Feb 09)

2.4.1. Install stab plates when one fish unit goes OOS.

2.4.2. Pull Cascades Is. picket leads on **09 Jan 09**.

2.4.3. Install UMT bulkhead on **north** end on **1/09/09**

2.4.4. Go to orifice flow on **1/10/09**.

2.4.5. Drain ladder to tailwater on **1/12/09**.

2.4.6. Clean staff gauges.

2.4.7. Calibrate fishway entrance gates at SA-24 board.

2.4.8. Replace/repair PIT tag equipment. (PSMFC/NOAA FISH)

2.4.9. Paint border of crowder white.

2.4.10. Remove algae from window and crowder.

2.4.11. Inspect picket leads for breaks or gaps. Repair as necessary.

2.4.12. Finish installing staff gauges at north and south monoliths.

2.4.13. Provide additional strapping for PIT tag equipment, as necessary. (Electricians)

2.4.14. Install SLEDS or acoustic deterrents by **01 Feb 09**

2.4.15. Inspect PH2 PCC **15 Jan 09**. (ROV inspection)

2.5. Cascades Island Ladder and UMT (20 Jan 09 – 28 Feb 09)

2.5.1. Pull picket leads on **09 Jan 09**.

2.5.2. Go to orifice flow on **17 Jan 09**.

2.5.3. Drain ladder to tailwater on **20 Jan 09**.

2.5.4. Dewater diffuser pools on **21 Jan 09**.

2.5.5. Drain ladder completely **22 Jan 09**.

2.5.6. Repair FG6-10.

2.5.7. Provide additional strapping for PIT tag equipment, as necessary. (Electricians)

2.5.8. Inspect picket leads for breaks or gaps. Repair as necessary.

2.5.9. Installation of lamprey rocks. (contractor)

2.5.10. Installation of new LPS (NOAA Fisheries)

2.5.11. Pull bulkheads, including north UMT, and return to service by **28 Feb 09**.

2.5.12. Install SLEDS or acoustic deterrents by **28 Feb 09**

3. JUVENILE FISHWAYS

3.1. DSM 1/ ITS

3.1.1. Pull STSs on **14 Oct 08**.

3.1.2. Walk the channel on **14 Oct 08**.

3.1.3. Install bulkheads and turn ITS over to contractors by **01 November**.

3.2. DSM 2 (15 Dec 08 – 19 Feb 09)

3.2.1. Pull STSs **15-16 Dec 08**

3.2.2. Turn off orifice lights on **13 Dec 08**

3.2.3. Dewater DSM on **18 Dec 08**

3.2.4. Inspect two mile pipe on **29 Dec 08**

3.2.5. PM equipment.

3.2.6. Inspect/Repair screen cleaners. Needs to be operable.

3.2.7. Install STSs starting **23 Feb 09**

3.2.8. Water up when STSs are installed (not later than **28 Feb 09**)

3.3. Juvenile Monitoring Facility (31 October 08 – 19 February 09)

3.3.1. Blow out hydro cannon lines on **01 Sep 08** (Operators)

3.3.2. Drain and inspect sample flume on **31 Oct 08**. (Project Fisheries)

3.3.3. Inspect and PM equipment- air pressure gauges and oil/water traps.

3.3.4. Inspect flume joints. Re-caulk as needed.

- 3.3.5. Inspect and winterize 2 and 3 way rotating gates.
- 3.3.6. Replace charcoal filters.
- 3.3.7. Inspect/Repair lifting cables for the fish lifts. (Riggers)
- 3.3.8. Install sump pump (Pump is ready to be installed in the basement.)
- 3.3.9. Possibly add two receptacles to the basement work area.
- 3.3.10. Inspect switchgate PLCs for proper calibration and settings. (lower one should switch based on TW elevation)
- 3.3.11. At the PIT tag building, remove deceased mice and possibly set traps for future occupants.
- 3.3.12. New seals on upper switchgate.
- 3.3.13. Seal off drain pipe to western wildlife pond.

3.4. B2 Corner Collector (02 Sep 08 – 01 Apr 09)

- 3.4.1. Remove mice from the pull box between the PIT tag building and the Electrical building and possibly set traps for future occupants.
- 3.4.2. Enter the channel to inspect seals around antennae and skid plates.

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.

Gray- items to keep on the radar but postponed for a future in-water work season.

Draft

THE DALLES DAM FISHWAY DEWATER SCHEDULE
WINTER '08/'09

East Fish Ladder

-Dewater

Dec. 2, '08 – Jan. 8, '09

- Repaint 1' mark on weir 158-9 (TJF)
- PM weirs 154-9 and CS equip (TDM,TDE)
- Clean inside crowder box (TDE)
- Repair FB staff gauge (TDS) reuse fish lock staff gage
- Clean staff gages and pickets (TJF)
- Lamprey ramp at 180 – d/s count station
- Repair Expansion joints (Eng)
- Re-floor count station (Eng)
- Repaint CS (TDM)
- Full range op tests all weirs (TJF)

East, West and South Ent, Junct Pool, Collection and Trans Chan

-Dewater

Week of Dec. 8, '08

- Install replacement diffuser grating – Eng decide replacement panels. (TDS)
- PM entrance weirs (TDM, TDE)
- Add extension stiffeners on east weirs (Eng, TDS)
- Full range op test (TJF)

North Fish Ladder

- Dewater

Jan. 13, '09 – Feb. 28, '09

- Assemble/install new dewater pump (TDM, TDS)
- PM CS equipment and PUD radial (PUD provide labor)
- Remove brush from fish ladder walls (TJF)
- Clean inside of crowder box (TDE)
- Purchase and replace upper diffuser grating – (Eng)
- Full range op test (TJF)

North Entrance

- Dewater

Jan. 14, '09

- PM weir N1 (TDM, TDS)
- Full range op test (TJF)

ROV inspect PUD intake trashrack

-ROV

Feb 18, '09

Draft
JOHN DAY DAM FISHWAYS' DEWATER SCHEDULE
WINTER '08/'09

South Turbine Bulkhead Install -ROV Jan. 5, '09

- Inspect seal and south turbine intake for debris
- Inspect south pump stilling basin trashrack

South Fish Ladder - Dewater Jan. 6, '09 – Mid Feb (depending south fish turbine rehab status)

- PM count station equipment and exit sills (JDM,JDE)
- Expansion joint repair exit and count station(JDM, Engineering)

South Entrance, Collection channel- Dewater Week of Jan. 12, '09

- PM SE1, NE1/2 entrance weirs (JDM, JDE)
- SE1 wall diffuser – assess condition and possible closure (JDM, Engineering)
- PM NE3 spare gearbox (JDM)
- Inspect diffuser valves (JDM, Engineering)

South fish turbine trashrack install -ROV Feb. 25, '09

- Inspect sill
- Inspect forebay north and south diffuser intakes

North Fish Ladder -Dewater Dec. 3, '08 – Jan.5, '09

- JDNFL district site visit support
- PM count station and exit hydraulic weirs (JDM,JDE)
- Shim picket leads up 1" (JDS)
- Repaint CS room and window slot floor (TJF)

North Entrance -Dewater Dec. 4, '08

- PM entrance weirs (JDM, JDE)
- JDNFL district site visit support

Juvenile Bypass System -Dewater Dec. 17, '08

- Repair flume spalling
- Repair SMF separator tub rust
- Inspect conduit (Engineering)
- PM all SMF equipment and tainter gate (JDM, JDE)

**Bonneville
Power Admin.**

Munro Outage Office

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**NOTICE OF PLANNED GENERATION
CONSIDERATIONS**

Date: September 4, 2008

INTERIM RESTRICTION SEPTEMBER 8-9

START DATE/TIME	September 3, 2008 at 1630 hours September 8, 2008 at 12:15 hours to September 9, 2008 at 1700 hours. The restriction listed in red will apply until 1700 Hrs or upon notification of the BPA Generation Dispatcher.
END DATE/TIME	October 3, 2008 at 1600 hours
REASON FOR NOTIFICATION	Transmission System Conditions are cause for this limitation.
GENERATION CONSIDERATIONS	Bonneville Powerhouse-N. Bonneville #3 and #4 230KV lines will be restricted to 330 MW (250MW) Maximum, during the times stated above.
ORIGINATOR	<i>Paul W. Adamske</i>

Revision #/Date	Cause for Revision	Initials

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Contract #W9127N-08-C-0015
Bonneville Spillway and Power Distribution Improvements

SCHEDULE FOR BRADFORD ISLAND NIGHTTIME WORK

This is based on performing this work on or about 15-October-2008. We believe this work could be started at 2000(8 PM) based on published nautical and astronomical twilight times for this time of the year for Cascade Locks, Oregon. However, if need be the start time could be pushed back.

2000-2200 HRS(8 PM to 10 PM): Mobilization, core (1) 5' hole in HVCV10
2000-2100 HRS(8 PM TO 9 PM): Saw cut 9' x 9' area for pad placement
2100-2300 HRS(9 PM TO 11 PM): Excavate spoil and chip off top of duct bank
2300-0100 HRS(11 PM TO 1 AM): Place backfill gravel as needed and compact, dig out key per RFI #4 response
0100-0300 HRS(1 AM TO 3 AM): Place wooden form and drive stakes to hold form in place
0300-0400 HRS(3 AM TO 4 AM): Demobilization

We believe all remaining work(pouring concrete, setting steel channel, electrical work) would be within an acceptable decibel range to be performed during the day.
electrical contractor; commercial residential industrial

FPP Change Forms

Change Request Number:

Date: April 16, 2008

Proposed by: Bonneville Project

Location of Change- BON 5.4.6-5.4.7 and BON 6.5.1-6.5.2 (sections re-numbered as required)

Proposed Change:

5.4.6. *From 1 December through 30 April, non-priority turbine units will not be voluntarily scheduled for extended outages. Priority units are 1, 10, 11, and 18.*

5.4.7. *From 1 December through 30 April, turbines which have been idle/out of service for more than 12 hours will be started by slow rolling the unit after manually tipping turbine blades from flat to steep back to flat.*

After including the two sections above as 6.5.1 and 6.5.2-

The current 6.5.2 will be re-numbered to 6.5.4. Add *“bottom tail logs should be placed first.”*

The current 6.5.3 will be re-numbered to 6.5.5. Add *“It is recommended adjacent units be operated to flush fish prior to placing tail logs in the unit to be OOS. It is also recommended that units located adjacent to OOS units not be voluntarily taken out of service until the adjacent units return to service.”*

Reason for Change: To better protect sturgeon in the draft tube and turbine environment.

Comments from others: FPOM doesn't want priority units OOS during fish passage season.

Change Request Number:

Date: 6/4/2008

Proposed by: Project Fisheries

Location of Change: BON-18 2.4.2.2.n.1

Proposed Change: 2.4.2.2.n.1 says “coordinate gateway cleaning with smolt monitoring personnel operating the downstream juvenile sampling facilities”. It should be moved to 2.4.2.2.m.3, which is the section on what to do when cleaning gateways.

Reason for Change:

2.4.2.2.n.1 is in the wrong location.

Change Request Number:

Date: 5/27/2008

Proposed by: The Dalles John Day Project

Location of Change- TDA 2.5.1.2.4 and JDA 2.5.1.2.a.4

Proposed Change: Omit from TD- ‘Water velocities will be measured at one location directly and monitored during fishway inspections to verify channels are operating within velocity criteria’.

Add to TD and JD – ‘Water velocities will be monitored weekly during as part of the fishway inspection program. Project biologist will determine method. Results will be provided in weekly status report. (JD did not have the same wording as TD)

Reason for Change: Discussion and resolution determined through FPOM velocity task group

Change Request Number:

Date: June 30, 2008

Proposed by: Tom Lorz CRITFC

Location of Change- FPP G-2, 4.2

Proposed Change: Change 4.2. *Sampling will be permitted 1-day per week from 0600- 1000 when water temperatures exceed 70°F to allow for mandatory steelhead sampling to Sampling will be permitted up to 4 days per week from 0600-1000 when water temperatures are between 70°F and 72°F.*

Reason for Change: To better meet the needs for data used by the US v Oregon parties and for the US/Canada Treaty fisheries groups in setting harvest limits and make management decisions. Currently large portions of the run are missed during these temperature outages making it difficult to estimate ocean abundance and stock specific escapements for fall Chinook for different critical population groups that drive decision by the harvest managers.

Comments from others: FPOM requested the hours be kept the same (0600-1000). An upper limit temperature needs to be added as well. This request doesn't include picket lead operation.

Final action: Mackey made the changes to the request. FPOM approved the increase in sample days at BON.

Change Request Number:

Date: 7/22/2008

Proposed by: Jon Rerecich

Location of Change- Appendix G BON AFF trapping protocols 2.3.

Anytime lamprey are held overnight in the AFF, researchers will notify Project Fisheries and the Control Room.

Proposed Change: Restrict holding times for lamprey to 48 hours.

Lamprey may be held up to 48 hours in the AFF. Researchers will notify Project Fisheries and the Control Room whenever lamprey are held.

Reason for Change: To minimize holding lamprey too long. In 2008 there was a mortality due to holding over a weekend.

Change Request Number:

Date: 7/22/2008

Proposed by: BON Fisheries

Location of Change- Appendix G BON AFF trapping protocols 4.

Trapping will not occur when fish ladder water temperatures meet or exceed 70°F as measured in the brail pool. The only exception is for US v Oregon requirements.

Proposed Change: Allow lamprey trapping when water temps are between 70°F and 72°F *Salmonid trapping will not occur when fish ladder water temperatures meet or exceed 70°F as measured in the brail pool. The only exception is for US v Oregon requirements and for nighttime lamprey trapping.*

Reason for Change: According to lamprey researchers, handling lamprey at the elevated temperatures does not seem to stress them as it does salmonids.

Change Request Number:

Date:8/6/08

Proposed by: BON Project Fisheries

Location of Change: BON Section 2.5.1.2.a












Maintain the water depth over fish ladder weirs at 1' +/- 0.1' during non-shad passage season (August 16 through May 14) and 1.3' +/- 0.1' during the shad passage season (May 15 through August 15).

Proposed Change: Remove the dates and adjust to shad passage mode based on the numbers of shad passing.

Maintain the water depth over fish ladder weirs at 1' +/- 0.1' during non-shad passage season (<5,000 shad per day) and 1.3' +/- 0.1' during the shad passage season (> or = to 5,000 shad per day).

Reason for Change: It makes more sense to base shad passage mode on shad numbers passing. It also makes BON criteria consistent with TDA shad criteria.

August 2008

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
					1	2
3	4	5 FPAC TDA ROV	6 TMT JDA ROV	7	8	9
10	11	12 FPAC AFEP pre-proposals sent out	13 TMT	14 FPOM- BON Velocity and VBS task groups	15	16
17	18	19 FPAC	20 TMT	21 SCT	22	23
24	25	26 FPAC AFEP pre-proposal review	27 TMT AFEP pre-proposal review	28 NWP – FFDRWG AFEP pre-proposal review	29	30
31 Spill Season ends						

September 2008

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
	1 B2CC closed Labor Day	2 FPAC	3 TMT	4	5	6
7	8	9 FPAC Happy birthday	10 TMT	11 FPOM Meeting- NOAA	12	13 Happy Birthday
14	15 Tribal Lamprey Plan review meeting.	16 FPAC	17 TMT NWP FFDRWG	18 SCT	19	20 Happy Birthday
21	22	23 FPAC AFEP pre-proposal comments due	24 TMT Predation Workshop at Oregon Zoo	25	26	27 Happy Birthday
28	29	30 FPAC				