OFFICIAL COORDINATION REQUEST FOR
NON-ROUTINE OPERATIONS AND MAINTENANCE

COORDINATION TITLE- 15BON23 sockeye recovery from FV6-9 channel
COORDINATION DATE- 25 June 2015
PROJECT- Bonneville Lock and Dam
RESPONSE DATE- 30 June 2015

Description of the problem – BON Fisheries discovered sockeye in the FV6-9 AWS channel at Washington Shore. Best guess is that there are between 10 and 20 fish in channel, above the picket leads. They were able to get into that area due to a rubber "gasket" failing. That rubber filled the gap between the picket lead and the above water fencing. It created about a 4 inch gap right at the water surface that allowed fish to squeeze through if they turn completely vertical and launch themselves over the lead. Sockeye were witnessed attempting this maneuver by Project Fisheries.
BON has closed the gap with welded flat bar so the problem has been remedied until a proper fix can be made during next winter maintenance

Now, for sockeye recover, there are likely 3 options.
1) Do nothing.

2) Lower the lower ladder to orifice flow to enable us to get into the AWS, net these fish, and return them to the river. Lowering the ladder will take at least half a day to deal with clearances and such so we will certainly impact fish passage to do this.

3) Leave the ladder alone and use angling to remove those fish and return them to the river.

Type of outage required -
1) No outage required.
2) Take the ladder to orifice flow.
3) No outage required

Impact on facility operation
1) no impact.
2) This option results in a partial ladder dewatering that will impact fish passage for about a day.
3) This option has no significant impact but will occupy the Project biologists during the morning or evening hours (when visitors are not there).

Dates of impacts/repairs –
1) The no action is currently underway.
2) Angling could be started immediately.
3) Dewatering the ladder would need to wait until early next week, when Hausmann and Royer are back in the office. Earliest date might be 29 June.

Length of time for repairs – Salvaging fish via a partial ladder dewater would take a few hours at most but the hanging of clearances may take longer. The entire time the ladder would be out of criteria could be the better part of a day.

Expected impacts on fish passage –
Downstream migrants – no impacts
Upstream migrants - Now that the gap has been fixed, there will likely be no further impacts to fish passing upstream.

1) For those fish in the channel, doing nothing will leave them in a dead end and they will likely die unless they find a way to escape.

2) A partial ladder dewater, with over 15K sockeye passing Washington Shore, will likely impact more fish down the ladder and delay migration. Given the warm water temperatures so early in the season, this is not deemed a desirable action. However, doing nothing will more than likely lead to the death of the fish already trapped in the AWS.

3) Angling will not impact the fish in the ladder and may provide a chance at survival for those removed from the AWS channel. Angling would occur when visitors are not on Project.

Table 1. 2015 June 19-24 Salmon passage numbers for Bonneville Dam and the Washington Shore (WA Shore) numbers.

Date	Chinook		Steelhead		Sockeye		Lamprey	
	Total	WA shore	Total	WA Shore	Total	WA Shore	Total	WA Shore
6/19	3272	**1462**	263	**174**	13692	**8950**	721	**272**
6/20	2992	**1930**	214	**144**	18917	**14327**	565	**284**
6/21	4155	**2342**	221	**140**	29764	**18324**	339	**112**
6/22	4797	**2559**	257	**164**	31880	**20586**	598	**137**
6/23	5043	**2803**	320	**213**	27720	**17572**	373	**150**
6/24	5136	**2969**	312	**183**	25749	**16931**	345	**212**

Comments from agencies

CRITFC - -----Original Message-----
From: Tom Lorz [mailto:lort@critfc.org]
Sent: Thursday, June 25, 2015 10:00 AM
To: Mackey, Tammy M NWP
Subject: [EXTERNAL] Re: FPOM: BON WA shore sockeye (UNCLASSIFIED)

really only option in my mind right now is good luck with angling gear lucking to get a couple, waiting to hear from gary if he has any better insight.

Thanks tom

-----Original Message-----
From: Jeff Fryer [mailto:FRYJ@critfc.org]
Sent: Thursday, June 25, 2015 1:15 PM
To: Mackey, Tammy M NWP
Cc: Tom Lorz
Subject: [EXTERNAL] Fwd: FPOM: official coordination - 15BON23 sockeye salvage from WS FV6-9 channel (UNCLASSIFIED)

Tammy,
Could netting be done at night? There is typically not much passage overnight. Otherwise, my suggestion would be to wait a week as I'd expect high temperatures would greatly reduce passage by the end of next week.

Jeff
-----Original Message-----
From: Tom Lorz [mailto:lort@critfc.org]
Sent: Thursday, June 25, 2015 5:55 PM
To: Mackey, Tammy M NWP
Subject: [EXTERNAL] RE: FPOM: official coordination - 15BON23 sockeye salvage from WS FV6-9 channel (UNCLASSIFIED)

I would support netting at night if this was a plausible idea but given the location I am skeptical. I would suggest angling at dusk (thus you can say you made an effort at least) prey for success and plan to deal with

the fish carcasses later since I am not sure we are going to be able to get to them anytime soon. Will need to come up with some way to verify the rubber seals are in place in the future so we do not have deal with this again or set up an inspection to insure these seals are properly in place before the sockeye run since they seem to be the trouble children and like to find all the nocks and grannies.

thanks tom

NOAA Fisheries -----Original Message-----
From: Gary Fredricks - NOAA Federal [mailto:gary.fredricks@noaa.gov]
Sent: Thursday, June 25, 2015 10:12 AM
To: Mackey, Tammy M NWP
Cc: Hausmann, Ben J NWP; Lorz, Tom; Trevor Conder - NOAA Federal
Subject: [EXTERNAL] Re: FPOM: BON WA shore sockeye (UNCLASSIFIED)

Tammy, I assume the sockeye were early this year (couple of days ago daily passage was at 300% of average) but the numbers are staying up there so we can't say what the run will do in the near future. Normally, the peak is about June 26. I guess I don't like the idea of angling in the ladder system (even tho it's not technically the ladder). The water is warm, there's hooking mortality, the area is quite visible from the visitor center, and I wonder how likely they would be to bite on anything anyway - you get my drift. Anyway, given that we know that normally the listed sockeye are larger (usually) it is less likely that these are listed fish and since 10 to 20 fish don't constitute much of the quarter million run so far and because taking the ladder down to orifice flow (I assume it would have to be daytime) would be a delay that fish can't afford this year (too hot), I would vote for doing nothing other than stopping the leak, which they appear to have done. If there is a chance of doing the netting at night with lights, then that might be a workable option, but even then I would expect some mortality due to the water temperature. Thanks, Gary

Fredricks (via phone call) - The 10 – 20 sockeye trapped behind the leads are a small percentage of the 100,000's that have passed BON. The odds of a trapped sockeye being a listed fish is extremely low. With current water temps, dewatering the ladder will likely do more harm to the greater numbers of fish migrating (which does include listed sockeye).

IDFG -----Original Message-----
From: Kiefer,Russell [mailto:russ.kiefer@idfg.idaho.gov]
Sent: Thursday, June 25, 2015 10:40 AM
To: Mackey, Tammy M NWP;
Subject: [EXTERNAL] RE: FPOM: BON WA shore sockeye (UNCLASSIFIED)

Tammy,
My recommendation would be option 2) and time it during the period of day with usually the lowest adult passage.
Russ

ODFW -----Original Message-----
From: Erick VanDyke [mailto:erick.s.vandyke@state.or.us]
Sent: Thursday, June 25, 2015 1:17 PM
To: Mackey, Tammy M NWP;
Subject: [EXTERNAL] RE: FPOM: official coordination - 15BON23 sockeye salvage from WS FV6-9 channel (UNCLASSIFIED)

I support NOAA's, and presumably CRTFC's concerns and skepticism with option 2 and 3, however I am unsure how option 1 (doing nothing) could be an appropriate path forward. Under the stated circumstances, if access is assumed possible using angling gear, what factor prohibits access using some other collection method? (e.g. crowding in combination with dipnet-back electrofishing; like capture

method). Alternative ideas seem necessary to deal with the important factors of not delaying upstream passage during recover, avoiding temperature extremes while safely (for folks and fish) collecting these fish—while actually making an attempt to recover these fish if at all possible.

Erick Van Dyke

NWP response to ODFW -----Original Message-----
From: Mackey, Tammy M NWP
Sent: Thursday, June 25, 2015 1:48 PM
To: 'Erick VanDyke';
Subject: RE: FPOM: official coordination - 15BON23 sockeye salvage from WS FV6-9 channel (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE

Hello Erick,
The fish may be reached by angling because a biologist could cast from the adjacent roadway or the catwalks. There is no crowder in the AWS channel so to put people in there to crowd and net fish (or electroshock) we would need to hang clearances and partially dewater the upper ladder. If we are going to partially dewater the ladder anyway, then we would salvage fish in our normal manner.

050212 PICT0159 shows the picket lead catwalk that might be used. 050212 PICT0160 shows the lower end of the AWS channel.

Perhaps the most reasonable path forward would be to try angling the fish out and if that is successful, great. If it isn't, if fish numbers decrease over the next week or so, we might be able to conduct a partial dewater of the upper section and salvage fish out of the AWS channel.

Let me know if you have any further questions.
Thank you,
Tammy

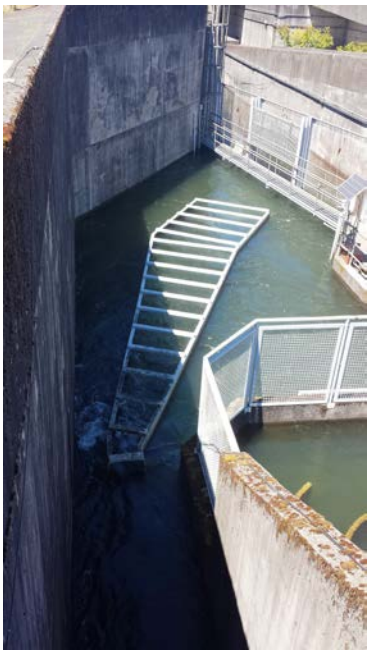

PICT0159 FV6-9 AWS catwalk PICT0160 – FV6-9 AWS channel

BON Fisheries -----Original Message-----
From: Bissell, Brian M NWP
Sent: Thursday, June 25, 2015 2:10 PM
To: Mackey, Tammy M NWP; Erick VanDyke; Derugin, Andrew G NWP; Lut,Agnes (BPA) - KEWR-4; Hausmann, Ben J NWP; Feil, Dan H NWD; Baus, Douglas M NWD; Ed Meyer (ed.meyer@noaa.gov); Fredricks, Gary; Lear, Gayle HQ @ NWD; Royer, Ida M NWP; Joe Skalicky; Rerecich, Jonathan G NWP; Wright, Lisa NWD; Lorz, Tom; Eppard, Matthew B NWP; Zorich, Nathan A NWP; Walker, Ricardo NWP; Wertheimer, Robert H NWP; Kiefer,Russell; Tackley, Sean C NWP; BPA Scott Bettin; trevor.conder@noaa.gov

Subject: RE: FPOM: official coordination - 15BON23 sockeye salvage from WS FV6-9 channel (UNCLASSIFIED)

Classification: UNCLASSIFIED
Caveats: NONE

Tamm you beat me to the photos! Both of these photos highlight the challenges of crowding or netting for that matter of any fish prior to going to orifice flow. What is also not seen in the photo is the makeup water supply channel leading up to the LPS that could have fish present also.



25June2015 WS AWS 1

25June2015 WS AWS 2

Final results – BON Project Fisheries will not dewater the ladder. They will report on their attempts to recover fish from the AWS channel in their weekly reports.

Please email or call with questions or concerns.
Thank you,
Tammy

Tammy Mackey
NWP Operations Division Fishery Section
Columbia River Coordination Biologist
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