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**From:** Garwin Yip - NOAA Federal <garwin.yip@noaa.gov>  
**Sent:** Tuesday, June 5, 2018 9:11 PM  
**To:** Barbara Byrne; Doug Hampton; Jeff Stuart; Kristin McCleery - NOAA Affiliate; Melanie Okoro - NOAA Federal; Sarah Gallagher - NOAA Federal  
**Subject:** Best available science  
**Attachments:** Barriers\_Track1.pdf; Fall X2\_Track1.pdf; IE Ratio\_cfs\_Track1.pdf; IE Ratio\_Track1.pdf; OMR Storm Flex\_Track1.pdf; Predation\_Track1.pdf; Rapid Genetics\_Track1.pdf; Smelt Monitoring\_Track1.pdf; Track 1 (PAWS) Workshop Agenda 04262018.pdf

All,

My e-mails are getting out of hand. I suspect that I have more recent e-mails associated with some of the actions currently proposed to be considered in ROC on LTO track 1, but I don't have time to fish for all of them, for example, I sent to you the predation one that included a list of recent science. Please scan through the actions that Reclamation is considering, attached, and let me know if any science that you are aware of that would be counter to where Reclamation is going with any one of the actions. For example:

- Reclamation said that there isn't a tight relationship between exports and survival of fish coming out of the San Joaquin River Basin, so increasing flows, yes, but not limiting exports to any given ratio.
- Reclamation was thinking about tinkering with the density-based loss triggers. I mentioned protecting the tails, and not just the peaks, of a bell-shaped curve of emigrating juvenile winter-run Chinook salmon to maintain diversity. Reclamation would like to see some science associated with that concept. I mentioned McElhaney et al. (2000) and Lindley et al (2009).

-Garwin-

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----- Forwarded message -----

**From:** Nelson, Benjamin <[bcnelson@usbr.gov](mailto:bcnelson@usbr.gov)>  
**Date:** Wed, Apr 25, 2018 at 5:52 PM  
**Subject:** Re: Track 1 Proposed Action Workshop - Agenda - April 26th  
**To:** "Nelson, Benjamin" <[bcnelson@usbr.gov](mailto:bcnelson@usbr.gov)>

Cc: "Harrison, Katrina" <[kharrison@usbr.gov](mailto:kharrison@usbr.gov)>, BOR MPR BDO Comments <[bdo@usbr.gov](mailto:bdo@usbr.gov)>

Good evening again,

Attached are some draft writeups on Track 1 Ideas we've been developing at Reclamation. These will be used for discussion at the tables during tomorrow's workshop. Also attached is the agenda - including updated room - River City Room on the 16th floor at the Holiday Inn.

Hope to see you tomorrow!

Thanks,  
Ben

On Mon, Apr 16, 2018 at 4:41 PM, Nelson, Benjamin <[bcnelson@usbr.gov](mailto:bcnelson@usbr.gov)> wrote:

Good evening,

Attached is an agenda for the Thursday, April 26th, Track 1 (Projects to Advance Water Supply) workshop you have been invited to at 300 J St (Holiday Inn) from 9:00 am - 3:30 pm.

We will be providing more details on the topics prior to the meetings. You can help us before the meeting by sending studies and other info relevant to the topics below to [bdo@usbr.gov](mailto:bdo@usbr.gov) by April 24th

- San Joaquin River Inflow:Export (I:E) Ratio
- OMR Storm Flexibility
- Fall X2
- Non-physical barriers
- Pilot Programs and Studies

Thank you, we look forward to the meeting and discussing the ideas!

Ben

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Ben Nelson

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