
From: Garwin Yip - NOAA Federal <garwin.yip@noaa.gov>
Sent: Monday, April 22, 2019 6:34 PM
To: Cathy Marcinkevage; Howard Brown
Subject: Fwd: PulseFlowProposal_NMFS_2018_V3(1) (1)_USBR edits - Invitation to edit
Attachments: PulseFlowProposal_NMFS_2018_V3(1) (1)_TLB & DV edits_jai.docx

-Garwin-

Garwin Yip

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

From: **Amanda Cranford - NOAA Federal** <amanda.cranford@noaa.gov>
Date: Thu, Mar 28, 2019 at 1:45 PM
Subject: Fwd: PulseFlowProposal_NMFS_2018_V3(1) (1)_USBR edits - Invitation to edit
To: Garwin Yip <garwin.yip@noaa.gov>

I believe this is the latest proposal - with Thad's suggested edits.

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From: **Thad Bettner** <tbettner@gcid.net>
Date: Wed, Mar 6, 2019 at 11:52 AM
Subject: RE: PulseFlowProposal_NMFS_2018_V3(1) (1)_USBR edits - Invitation to edit
To: Flora Cordoleani Malka... <fcordole@ucsc.edu>
Cc: matt.johnson@wildlife.ca.gov <matt.johnson@wildlife.ca.gov>, jahnava.duryea@noaa.gov <jahnava.duryea@noaa.gov>, amanda.cranford@noaa.gov <amanda.cranford@noaa.gov>, cyril.michel@noaa.gov <cyril.michel@noaa.gov>, jeremy.notch@noaa.gov <jeremy.notch@noaa.gov>, jaisrael@usbr.gov <jaisrael@usbr.gov>, dvogel@resourcescientists.com <dvogel@resourcescientists.com>, ebuttermore@usbr.gov <ebuttermore@usbr.gov>, johnson, rachel@noaa.gov (rachel.johnson@noaa.gov) <rachel.johnson@noaa.gov>, Lewis Bair <lbair@rd108.org>

Hi Flora,

Thank you again for your willingness to share and consider our comments to your proposal. I have included comments from myself, Dave Vogel, and Josh Israel.

MBK is currently also looking at the water cost and should have something in the next couple of weeks.

I'm also including Rachel on the email since we discussed a presentation at the upcoming Sac Science workshop on spring pulses which relates to your proposal.

Lastly, we should discuss the need for the pulse this year given the high tributary and main stem Sac flows and the presence of spring run in the system into May. I'm guessing the high flows this year will meet the flow requirements or at least will move the fish out of the system in March and April.

Thanks,

Thad.

Thaddeus L Bettner

Glenn-Colusa Irrigation District

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530.588.3450 (cell)



From: Flora Cordoleani Malka... (via Google Docs) [mailto:drive-shares-noreply@google.com]
Sent: Wednesday, February 13, 2019 3:58 PM
To: Thad Bettner
Cc: matt.johnson@wildlife.ca.gov; jahnava.duryea@noaa.gov; amanda.cranford@noaa.gov; cyril.michel@noaa.gov; jeremy.notch@noaa.gov; jaisrael@usbr.gov; dvogel@resourcescientists.com; ebuttermore@usbr.gov
Subject: PulseFlowProposal_NMFS_2018_V3(1) (1)_USBR edits - Invitation to edit

[Flora Cordoleani Malkassian](#) has invited you to **edit** the following document:



[PulseFlowProposal_NMFS_2018_V3\(1\) \(1\)_USBR edits](#)

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