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**From:** J. Stuart - NOAA Federal <j.stuart@noaa.gov>  
**Sent:** Wednesday, April 10, 2019 11:21 AM  
**To:** Joe Heublein - NOAA Federal  
**Cc:** Brian Ellrott; Yip, 'Garwin'; Cathy Marcinkevage; Howard Brown; Boring, Susan; Barbara Byrne - NOAA Federal  
**Subject:** Re: Green sturgeon I&S

Hi Joe,

I left a copy of the GS integration and synthesis in the share drive folder (my initials "jss" at the end) "2.8 Integration and Synthesis V1 srb jch jss" in R:\Draft BiOp\2\_ESA\2.8-2.9 Integration and Synthesis and Conclusion. There are a couple of comments that you should take a look at. In particular there appears to be a cut and paste orphan paragraph from the CWF BiOp that doesn't quite make sense. In this PA, there is an increase in net negative OMR flows due to more exports, not a reduction, and the paragraph actually refers back to a section in the old CWF BiOp. Overall I don't have any major issues, just clarifying a few statements in your discussion.

Jeff

On Tue, Apr 9, 2019 at 11:43 AM Joe Heublein - NOAA Federal <[joe.heublein@noaa.gov](mailto:joe.heublein@noaa.gov)> wrote:  
Finished a draft of the GS I&S. It is saved as '2.8 Integration and Synthesis V1 srb jch' in R:\Draft BiOp\2\_ESA\2.8-2.9 Integration and Synthesis and Conclusion

I discuss recovery in: 2.8.7.2 Assess the Risk to ESU/DPS  
If this recovery discussion seems reasonable, I will do the same for steelhead.

I had to format the stressor critical habitat tables with small font so they fit on the page and I could add comments/track changes. Still haven't included discussion of the ~8 Delta Division effects I wrote up but we're making progress on retrieving that document and hopefully it can be added later. Otherwise, have some suggested changes on Evan's effect conclusions for presumably beneficial actions like fish screens. If those changes make sense Evan may need to change his effects section slightly to reflect that.

I'm planning to stop working on GS I&S and move onto steelhead. Hopefully Jeff has time to review and revise GS I&S as needed.

Thanks,

Joe

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