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**From:** Brian Ellrott - NOAA Federal <brian.ellrott@noaa.gov>  
**Sent:** Thursday, April 25, 2019 2:13 PM  
**To:** Barbara Byrne - NOAA Federal  
**Cc:** Joe Heublein - NOAA Federal  
**Subject:** Re: Uncertainties

Thanks Barb! Looking for uncertainties with the PA, our effects analysis on the PA, or both?

On Thu, Apr 25, 2019 at 2:09 PM Barbara Byrne - NOAA Federal <[barbara.byrne@noaa.gov](mailto:barbara.byrne@noaa.gov)> wrote:  
FYI -- Howard looking for Division uncertainties; suspect he left you off to you can either focus on I&S or just take a breath.

Unless I hear otherwise that you have time and inclination to do it, **I will pull what I think are key uncertainties for the American River** from the Effects analysis and sufficiency review worksheets.

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

**From:** Howard Brown - NOAA Federal <[howard.brown@noaa.gov](mailto:howard.brown@noaa.gov)>  
**Date:** Thu, Apr 25, 2019 at 2:03 PM  
**Subject:** Uncertainties  
**To:** Sarah Gallagher - NOAA Federal <[sarah.gallagher@noaa.gov](mailto:sarah.gallagher@noaa.gov)>, Barbara Byrne <[barbara.byrne@noaa.gov](mailto:barbara.byrne@noaa.gov)>, J. Stuart <[j.stuart@noaa.gov](mailto:j.stuart@noaa.gov)>, Evan Sawyer - NOAA Affiliate <[evan.sawyer@noaa.gov](mailto:evan.sawyer@noaa.gov)>, Cathy Marcinkevage <[Cathy.Marcinkevage@noaa.gov](mailto:Cathy.Marcinkevage@noaa.gov)>, Garwin Yip <[garwin.yip@noaa.gov](mailto:garwin.yip@noaa.gov)>

Sorry for this late-in-the-day request, by I am hoping you folks might be able to pull together a short list of key uncertainties from your effects analysis drafting. I am meeting with Reclamation and FWS tomorrow to discuss adaptive management and it would be more than helpful to get your latest views on uncertainty. I suggest now more than key uncertainties per division. Short bullet points would be perfect. COB today would be ideal!

Thank you!  
Howard

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