

## Wylie, Allan

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**From:** Brendecke, Chuck [Chuck.Brendecke@amec.com]  
**Sent:** Monday, November 28, 2011 4:19 PM  
**To:** Wylie, Allan; Raymondi, Rick; Jennifer Johnson ; Bryan Kenworthy; Bryce Contor; Chuck Brockway; Dar Crammond; David Blew ; David Hoekema; David Kampwerth; Gary Johnson; Greg Clark; Greg Sullivan; Gregg S. Ten Eyck ; Hal Anderson; J. D. May; Jack Harrison; Janak Timilsena; Jeff Sondrup; Jim Bartolino; Jim Brannon ; John Koreny; John Lindgren ; Jon Bowling; Ken Skinner; Linda Lemmon; McVay, Michael; Mike Beus; Rick Allen; Roger Warner; Sharon Parkinson; Stacey L Taylor; Sukow, Jennifer; Swank, Lyle; Thomas R Wood; Vincent, Sean; Willem Schreuder; Young Harvey Walker  
**Cc:** marx.hintze@icp.doe.gov; marxhintze@hintze.net; Olenichak, Tony; kwogsland@spronkwater.com; marilyn@tflaw.com; jryu@uidaho.edu; shannula@erresources.com; brian@waterwellconsultants.com  
**Subject:** RE: Predictive Uncertainty Memo

Allan

I apologize for missing your deadline, but offer the following brief comments in the hope that they will still be helpful:

- 1) We are doing the uncertainty analysis that we know we can do given time and budget. This may or may not be the uncertainty analysis that the Director(s) or Hearing Officer had in mind. We all know it is not the whole story on uncertainty. I think more words are needed to provide this context.
- 2) Under "Method" you state that the procedure identifies "the maximum or minimum impact of a Water District on a spring cell or river reach." This easily could be misinterpreted by someone unfamiliar with the actual details of what we are doing. I think we need to be clear exactly what is being maximized or minimized and the bounds we are putting on that optimization.
- 3) This memo may well be distributed and read in isolation. While it does a good job of describing the technical steps taken in the procedure, I think it is too thin on context and is probably too succinct for readers outside the modeling committee (even for some of us inside the committee).
- 4) In the very last paragraph I'd like to see a few more sentences showing how these PEST guidelines translate into the bounds we actually use in the analysis.

Thanks for indulging these late comments.

Chuck

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**From:** Wylie, Allan [<mailto:Allan.Wylie@idwr.idaho.gov>]  
**Sent:** Monday, November 07, 2011 11:34 AM  
**To:** Raymondi, Rick; Jennifer Johnson ; Brendecke, Chuck; Bryan Kenworthy; Bryce Contor; Chuck Brockway; Dar Crammond; David Blew ; David Hoekema; David Kampwerth; Gary Johnson; Greg Clark; Greg Sullivan; Gregg S. Ten Eyck ; Hal Anderson; J. D. May; Jack Harrison; Janak Timilsena; Jeff Sondrup; Jim Bartolino; Jim Brannon ; John Koreny; John Lindgren ; Jon Bowling; Ken Skinner; Linda Lemmon; McVay, Michael; Mike Beus; Rick Allen; Roger Warner; Sharon Parkinson; Stacey L Taylor; Sukow, Jennifer; Swank, Lyle; Thomas R Wood; Vincent, Sean; Willem Schreuder; Young Harvey Walker  
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**Subject:** Predictive Uncertainty Memo

Hi

During our October 27 ESHMC meeting Greg Sullivan requested a memo discussing both why the ESHMC should conduct a predictive uncertainty analysis and how the analysis would be conducted. The attached memo represents my attempt to answer both questions. I am assuming that previous presentations and committee discussions adequate cover the strengths and weaknesses of our chosen approach. The file is also posted in the 'ESPA Model Uncertainty' section of the

ESHMC web page. Your comments are welcome. If I don't receive any comments by 21 November 2011, I will consider the memo final.

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