From: (b) (6) [redacted] on behalf of Robert P. Brooks
To: Genevieve Ali; Mike Josselyn; ljohnson@d.umn.edu; rpb2@psu.edu; emily.bernhardt@duke.edu; mgooseff@engr.colostate.edu; hassy@cox.net
Cc: Armitage, Thomas; Goodman, Iris; adr79@cornell.edu
Subject: Re: Biological citations for consideration by writing team for EPA"s SAB draft report - Connectivity...
Date: Monday, April 07, 2014 4:29:16 PM
Attachments: 1-CWA Guidance Comments - DUCKS UNLIMITED - EPA-HQ-OW-2011-0409 w-o PS sig.docx
13-Bog Turtle HCP - Riparia 2008.pdf

Items 1- & 13- . Cheers, Rob

On Mon, Apr 7, 2014 at 4:25 PM, Robert P. Brooks <rpb2@psu.edu> wrote:

> Hi all - This took longer than expected, but I am attaching many documents that contain relevant information confirming the extensive use of various biological taxa that connect streams and wetlands. This information is intended for the SAB's primary writing team that is revising the draft report on "Connectivity of streams and wetlands to downstream waters ..." (not our convened review panel). Some of the papers, chapters, and/or letters contain literally dozens of primary literature citations, even though the publications themselves may be book chapters or reports. Where possible, I have attempted to direct the writing team to particular sections, but not to the extent I had hoped. Thus, there is still a fair amount of sifting that needs to be done, although the titles can be quite instructive.
>
> The evidence of connectivity for multiple taxa is overwhelming, and should be summarized for the next version of the report. I can interpret some of the publications for the writing team should they have specific questions. I acquired this information either through my own knowledge of the literature, or based on a request I made to Dr. Scott Yaich of Ducks Unlimited on behalf of our panel, specifically for this purpose. Best, Rob
>
> Robert P. Brooks, Ph.D.,
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> List and annotations for attachments:
> **1. CWA Guidance ... a 60-page letter** with narrative biological examples of connectivity

with references sent by Paul Schmidt to EPA's Lisa Jackson for DU, 2011 (this is already in the public record, but may not have been given to or reviewed by the writing team. [DUE TO LARGE FILE SIZE - 11MB, WILL BE SENT SEPARATELY IN A SECOND EMAIL FROM ME - may be the most valuable synopsis]

2. EPA Connectivity ...a 13-page letter of the same, sent by Scott Yaich of DU to EPA's Tom Armitage, 2013
3. Wetland Connectivity Compilation... references from selected geographic regions, from Scott Yaich, DU
4. Wetland Connectivity references from DU - more citations
5. Rainwater Basin...
6. Randall et al. 2011 - radar and wintering waterfowl

7&8. Cox and Afton 1996 & 1997 papers - movements of wintering waterfowl in LA

9. Boltz and Stauffer 1989 - book chapter with citations on fish use of wetlands in PA (one of the few on this topic)
10. Julian et al. 2013 - book chapter with citations summarizing herpetile studies by Riparia at Penn State, addressing connectivity in multiple aquatic ecosystems
11. O'Connell et al. 2013 - book chapter with citations summarizing relevant bird studies by Riparia at Penn State; see sections 8.2, 8.4 for species using multiple wetland types and streams.
12. Yetter 2013 - book chapter summarizing aquatic macroinvertbrate studies by Riparia at Penn State, connecting streams, floodplains, and wetlands
13. **Bog Turtle HCP final report 2008** (Riparia at Penn State) - see pages 8-12 for bog turtle ecology and citations [DUE TO LARGE FILE SIZE - 3MB, WILL BE SENT SEPARATELY IN A SECOND EMAIL FROM ME WITH ITEM #1]
14. Leibowitz and Brooks 2008 - book chapter on hydrology and landscape connectivity for vernal pools with references
15. Brooks and Serfass 2013 - book chapter summarizing wildlife studies by Riparia at Penn State, BUT key part is on p.263-268 addressing movements of river otter and beaver in aquatic systems, plus citations.