To: Paul, Sabu[SPaul@mbakerintl.com]
From: Shaikh, Taimur
Sent: Wed 11/15/2017 1:59:44 PM
Subject: FW: Lake Tenkiller EFDC Modeling Update

Hi Sabu,

Please see the highlighted section below in green.

Thanks.
Taim.

Taimur A. Shaikh, Ph.D.
Acting Section Chief | NPDES Management Section (6WQ-PO)
Home Section | Assessment, Listing, and TMDL Section (6WQ-PT)
Water Division | EPA Region 6

From: Brian Haggard [mailto:haggard@uark.edu]
Sent: Tuesday, November 14, 2017 5:35 PM
To: Shaikh, Taimur <Shaikh.Taimur@epa.gov>; Chris Adams <Chris.Adams@owrb.ok.gov>; Akakpo, David <david.akakpo@deq.ok.gov>; Bill Cauthron <Bill.Cauthron@owrb.ok.gov>; blanz@adeq.state.ar.us; Caitlin.Miller@owrb.ok.gov; Greg Kloxin <Greg.Kloxin@Conservation.ok.gov>; Joe Long <Joe.Long@deq.ok.gov>; Julie CHambers <Julie.Chambers@owrb.ok.gov>; Soojung Lim <soojung.lim@deq.ok.gov>; Pat Gwin <pgwin@cherokee.org>; Rebecca Veiga Nascimento <Rebecca.Veiga@owrb.ok.gov>; John Benefield <Ryan.Benefield@arkansas.gov>; tom-elkins@cherokee.org; Tate Wentz <WENTZ@adeq.state.ar.us>; Wooster, Richard <Wooster.Richard@epa.gov>; Jeremy Seiger <Jeremy.Seiger@ag.ok.gov>
Cc: Wooster, Richard <Wooster.Richard@epa.gov>; Dwyer, Stacey <Dwyer.Stacey@epa.gov>
Subject: RE: Lake Tenkiller EFDC Modeling Update

Taim, thanks.

Is what you have plotted the anoxic volume from that site up-reservoir? [Just curious for clarity.]

How do the model predictions compare to the actual measurements of anoxic volume (based on monitoring data)? [it would be nice to have those on the plots to see how the model is performing.]

Also, just thinking out loud – how does anoxic volume get assessed in Oklahoma's WQS? The use of the model and evaluation with observed data need to be consistent to that.

Sorry, (but) I threw these questions out to the group because it looks like my availability is limited on the days in the doodle poll – sorry, end of the semesters are challenging when you add in teaching.

Brian E. Haggard, PhD

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From: Shaikh, Taimur [mailto:Shaikh.Taimur@epa.gov]
Sent: Tuesday, November 14, 2017 9:16 AM
To: Chris Adams <Chris.Adams@owrb.ok.gov>; Akakpo, David <david.akakpo@deq.ok.gov>; Bill Cauthron <Bill.Cauthron@owrb.ok.gov>; blanz@adeq.state.ar.us; Brian Haggard <haggard@uark.edu>; Caitlin.Miller@owrb.ok.gov; Greg Kloxin <Greg.Kloxin@Conservation.ok.gov>; Joe Long <Joe.Long@deq.ok.gov>; Julie CHambers <Julie.Chambers@owrb.ok.gov>; Soojung Lim <soojung.lim@deq.ok.gov>; Pat Gwin <pgwin@cherokee.org>; Rebecca Veiga Nascimento <Rebecca.Veiga@owrb.ok.gov>; John Benefield <Ryan.Benefield@arkansas.gov>; tom-elkins@cherokee.org; Tate Wentz <WENTZ@adeq.state.ar.us>; Wooster, Richard <Wooster.Richard@epa.gov>; Jeremy Seiger <Jeremy.Seiger@ag.ok.gov>
Cc: Wooster, Richard <Wooster.Richard@epa.gov>; Dwyer, Stacey <Dwyer.Stacey@epa.gov>
Subject: RE: Lake Tenkiller EFDC Modeling Update

Dear folks,

A request was made for anoxic volumes for the lake. The outputs are attached for LK01, LK02, and Lake Tenkiller total.

Also, please share your availability using the doodle poll link for a one hour call to discuss the Lake Tenkiller information.

https://doodle.com/poll/vwsik3gsk34euqts

Thanks so much.

Taim.

Taimur A. Shaikh, Ph.D.
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From: Shaikh, Taimur
Sent: Friday, November 03, 2017 11:41 AM
To: Chris Adams <Chris.Adams@owrb.ok.gov>; Akakpo, David <david.akakpo@deq.ok.gov>; Bill Cauthron <Bill.Cauthron@owrb.ok.gov>; blanz@adeq.state.ar.us; Brian Haggard <haggard@uark.edu>; Caitlin.Miller@owrb.ok.gov; Greg Kloxin <Greg.Kloxin@Conservation.ok.gov>; Joe Long <Joe.Long@deq.ok.gov>; Julie CHambers <Julie.Chambers@owrb.ok.gov>; Soojung Lim <soojung.lim@deq.ok.gov>; Pat Gwin <pgwin@cherokee.org>; Rebecca Veiga Nascimento <Rebecca.Veiga@owrb.ok.gov>; John Benefield <Ryan.Benefield@arkansas.gov>; tom-elkins@cherokee.org; Wentz, Tate <WENTZ@adeq.state.ar.us>; Wooster, Richard <Wooster.Richard@epa.gov>; Jeremy Seiger <Jeremy.Seiger@ag.ok.gov>
Cc: Wooster, Richard <Wooster.Richard@epa.gov>; Dwyer, Stacey <Dwyer.Stacey@epa.gov>
Subject: Lake Tenkiller EFDC Modeling Update

Dear Technical Workgroup Members,

It's been a considerable amount of time since our last group communication. We have been actively pursuing improvements regarding the Lake Tenkiller EFDC model. After significant revisions to the lake model, the attached document represents what we can achieve with the EFDC model and calibration data for the 2005 - 2006 period. Specifically, we are sharing the profiles for temperature and dissolved oxygen at lake monitoring stations. We would appreciate your review of the attached modeled profiles and the overall statistics. Once we have had a chance to familiarize ourselves with the output, we would like to have a conference call to discuss the current model and decide on a path forward regarding Lake Tenkiller. Any decisions reached at that time will most likely impact options regarding the path forward for the watershed model as well. We hope to have a conference call in the next two to three weeks.

Thank you all for your time and patience and please stay tuned.

Sincerely,

Taim.

Taimur A. Shaikh, Ph.D.

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