To: Paul, Sabu[SPaul@mbakerintl.com]
From: Shaikh, Taimur
Sent: Fri 11/3/2017 6:20:40 PM
Subject: FW: Lake Tenkiller EFDC Modeling Update

Hi Sabu,

Is there any chance we can get a feel for the % anoxic volume from EFDC?

For lakes, the pertinent standard is:

For lakes, no more than 50% of the water volume shall exhibit a DO concentration less than 2.0 mg/L. If no volumetric data is available, then no more than 70% of the water column at any given sample site shall exhibit a DO concentration less than 2.0 mg/L. If a lake specific study including historical analysis demonstrates that a different percent volume or percent water column than described above is protective of the WWAC use, then that lake specific result takes precedence.

Please let me know.

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: Shaikh, Taimur
Sent: Friday, November 03, 2017 1:18 PM
To: 'Adams, Chris' <Chris.Adams@owrb.ok.gov>
Cc: Julie CHambers <Julie.Chambers@owrb.ok.gov>; Veiga, Rebecca <Rebecca.Veiga@owrb.ok.gov>; Cauthron, Bill <Bill.Cauthron@owrb.ok.gov>; Joe Long (Joe.Long@deq.ok.gov) <Joe.Long@deq.ok.gov>; Soojung Lim <soojung.lim@deq.ok.gov>; David Akakpo <david.akakpo@deq.ok.gov>; Jeremy Seiger <Jeremy.Seiger@ag.ok.gov>; Greg Kloxin <Greg.Kloxin@Conservation.ok.gov>; Shanon Phillips (shanon.phillips@conservation.ok.gov) <shanon.phillips@Conservation.ok.gov>; Dwyer, Stacey <Dwyer.Stacey@epa.gov>; Wooster, Richard <Wooster.Richard@epa.gov>
Subject: RE: Lake Tenkiller EFDC Modeling Update

Hi Chris,

Thanks so much for your quick response. The timeline is important. We need to brief our management if we are going to move forward with EFDC or if we take a different tack. There are lots of changes (including retirements) coming up and may pose scheduling questions.

We agree that the % anoxic volume statistic may be valuable in determining criticality of some of the profiles. We'll follow up on the issue with the contractors and compare it against the language in 785:45-5-12 f (1) (C) (ii)

Thanks again and stay tuned.

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: Adams, Chris [mailto:Chris.Adams@owrb.ok.gov]
Sent: Friday, November 03, 2017 11:54 AM
To: Shaikh, Taimur <Shaikh.Taimur@epa.gov>
Cc: Julie CHambers <Julie.Chambers@owrb.ok.gov>; Veiga, Rebecca <Rebecca.Veiga@owrb.ok.gov>; Cauthron, Bill <Bill.Cauthron@owrb.ok.gov>; Joe Long (Joe.Long@deq.ok.gov) <Joe.Long@deq.ok.gov>; Soojung Lim <soojung.lim@deq.ok.gov>; David Akakpo <david.akakpo@deq.ok.gov>; Jeremy Seiger <Jeremy.Seiger@ag.ok.gov>; Greg Kloxin <Greg.Kloxin@Conservation.ok.gov>; Shanon Phillips (shanon.phillips@conservation.ok.gov) <shanon.phillips@Conservation.ok.gov>; Dwyer, Stacey <Dwyer.Stacey@epa.gov>; Wooster, Richard <Wooster.Richard@epa.gov>
Subject: RE: Lake Tenkiller EFDC Modeling Update

Hi Taim,

Thanks for sending this. I know you likely have various pushes on the time so how critical is the timeline? Two weeks for review would be beneficial as we have some immediate commitments which cannot be changed but is that going to push the 2-3 week meeting timeline too much?

Also, just speaking for OWRB, after a very quick glance we may request a few outputs of the %volumetric anoxia stat to determine how critical some of the profiles may or may not be. If we do, I will try and let you know ASAP. Lastly, we finally heard back from USACE regarding the latest bathymetric dataset so I will be sending you the timeline I mentioned later today.

Thanks,
Chris

Chris Adams, PhD
Quality Assurance & Data Manager
Water Quality Division
OKLAHOMA WATER RESOURCES BOARD
3800 N Classen Blvd, Oklahoma City, OK 73118
405.530.8998 • owrb.ok.gov • Facebook • Twitter

From: Shaikh, Taimur [mailto:Shaikh.Taimur@epa.gov]
Sent: Friday, November 03, 2017 11:41 AM
To: Adams, Chris; Akakpo, David; Cauthron, Bill; blanz@adeq.state.ar.us; Brian Haggard; Miller, Caitlin; Greg Kloxin; Joe Long; Chambers, Julie; Soojung Lim; Pat Gwin; Veiga, Rebecca; John Benefield; tom-elkins@cherokee.org; Tate Wentz; Wooster, Richard; Jeremy Seiger
Cc: Wooster, Richard; Dwyer, Stacey
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.

Acting Section Chief | NPDES Management Section (6WQ-PO)
Home Section | Assessment, Listing, and TMDL Section (6WQ-PT)
U. S. EPA Region 6, Water Division | 1445 Ross Ave. Dallas, TX 75202-2733
Phone: (214) 665-7181| Fax: (214) 665-2191