

Below are the main points/action items I noted from the June 18, 2013 Model Work Session:

Upcoming Model Work Session Schedule

- Weekly meetings until further notice. Next meeting June 25, 2013 10 a.m. @ DEQ.

Decision Points

- There were no specific decision points identified in this meeting regarding the AQUATOX set-up and calibration.

Upcoming Items

- DEQ has money in the FY2014 budget to pay Jonathan Clough and Dick Park fund for approximately 60 total hours to consult on the AQUATOX modeling effort. Troy is currently working on the contract with Jonathan, Dick, and DEQ's procurement/contracts personnel.
- Clifton Bell, the Technical Leader for Watersheds and TMDLs with Brown and Caldwell and the co-PI of the WERF project on the use of models to site-specific water quality goals will be in Boise in July. The tentative plan is for him to participate in the July 9 Model Work Session.

Action Item Updates

- WWTPs
 - A. City of Caldwell WWTP data provided by Lee.
 - B. City of Nampa WWTP data provided by Matt
 - C. Eagle Fish Hatchery data provided by IDFG, Kate, and Troy
- Troy
 - A. DEQ will float portions of the LBR below Star on 6/20 and 6/21 to gather qualitative riffle/run/pool and other data that may be lacking for the model set-up and calibration.
 - B. DEQ management provided guidance on the SR-HC allocation requirements for the LBR.
 1. There are no chlorophyll a targets set for the tributaries in the SR-HC TMDL; only the TP target applies to the LBR. The chlorophyll a targets in the SR-HC TMDL are for the Snake River section and the reservoirs.
 2. The WAG and DEQ can certainly have a discussion about using chlorophyll a as a target, but it is not mandated discussion because the SR-HC TMDL does not set chlorophyll a targets for the tributaries.
- Tom
 - A. Contacted Dick to discuss model calibration necessary/appropriate to include phytoplankton.
 1. Dick confirmed (my interpreted paraphrasing) that the previous model had been calibrated, including phytoplankton. All parameters should be checked and some refinement may be needed to optimize the model calibration. Any assertion that little-to-no calibration occurred with the previous version is incorrect.
 2. Dick's 2006 Calibration and Validation report is now on the ftp site.
- Jack (although he was unable to attend the meeting, his previous items were kept on the agenda for next week so that they could be fully addressed)
 - A. Frame/outline 3 questions related to the interpretation of pebble count and periphyton data, model results, and targets (roughly paraphrased below):

1. How to best characterize riffles/runs/pools on the LBR for use in the model?
 - Some methods discussed by the group included algorithm review, sensitivity analyses, field documentation, remote sensing, etc.
2. How to apply the USGS periphyton data collection to riffles vs. runs in the model and interpret results?
 - Alex's and Dick's professional opinions were interpreted as believing periphyton growth would likely be similar in riffles and runs, given the appropriate substrate. However, it was also identified that other factors could come into play such as turbidity, water velocity, water depth, etc.
3. Ensuring that the target and data transformation procedures are clear, aligned, and appropriate.
 - It was suggested to deal with questions 1 and 2 first, which may help formulate how question 3 is addressed.

New Action Items

- Darcy
 - A. Continuing to work on the morphometry and velocity components of the model. She hopes this calibration will be completed in ~3 weeks (she is on vacation next week).
 - B. Will discuss with Mark Shumar (DEQ) about general shade analysis on the LBR to improve on shading data for the model.
- Michael
 - A. Continue updating the input file that is on the ftp site as new data is located and updated.
- Troy
 - A. Update the "LBR_Atx_2012Updating_Outstandingitems_050912" document on the ftp site. This document has a number of action items that need to be completed for the model calibration.
 - The attached and updated version is called "LBR Atx 2013Updating Outstandingitems 061813"
- All
 - A. Please see the attached "LBR Atx 2013Updating Outstandingitems 061813" and identify if there are items you can help to complete.
 - B. If you are able to take on and/or complete any of these tasks, please update the document, change the title to reflect the current date, and send to either Alex or me so that it can be reposted to the ftp site.

As always, please let me know what I missed or misinterpreted and thanks for your participation today! Cheers,
-Troy

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