Stream Health Workgroup February Meeting

Friday, February 18, 2022, 10:00-12:00 ET

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Or call in (audio only) +1 202-991-0477, **ID:** 967 408 436#

Agenda:

10:00   Introductions, Roll Call, and Updates on GIT Funding

10:20   Update on the Stream Restoration STAC Workshop Proposal – *Greg Noe (USGS) & Neely Law (Fairfax County)*

Greg and Neely – Co-chairs of the Stream Restoration STAC Workshop Steering Committee – will provide a brief update on the recently submitted STAC Workshop Proposal. Topics to be discussed include finalized workshop goals, content, etc.

10:35   Measuring Stream Condition in the Chesapeake Bay Watershed: An Update on the Chessie BIBI Predictive Modeling Effort – *Kelly Maloney (USGS), Claire Buchanan (ICPRB), Rikke Jepsen (ICPRB), Kevin Krause (USGS), Benjamin Gressler (USGS), Matthew Cashman (USGS), John Young (USGS)*

Abstract: Here, we present an update to the Chessie BIBI predictive modeling effort for small streams (≤ 200 km2 in upstream drainage) in the Chesapeake Bay watershed. We incorporated the additional, recently collated benthic macroinvertebrate data for the Chessie BIBI effort and extended the subset of these data used in the predictive model. We also updated the land cover and climate data used in the model. We summarized predicted stream condition (Poor, Fair/Good, or Uncertain) by both stream length and drainage area for each year NLCD data were available (2001, 2004, 2006, 2008, 2011, 2013, 2016, 2019) to evaluate trends in these predictions through time. Preliminary model results indicate both total stream length and catchment area showed a decrease and then an increase in predicted Fair/Good conditions over the 19-year period (stream length: 66.6% in 2001, 66.3% in 2011, and 66.6% in 2019; catchment area: 65.0% in 2001, 64.8% in 2011, and 65.4% in 2019). Ongoing efforts including continued model evaluation and potential updating and then to incorporate results with the observed monitoring data for the overall assessment, which will likely change the above percentages.

11:05   Management Approaches to Reduce Stressors of Stream Health – Preliminary Results – *Travis Ostrom*

This study examines the potential of management activities implemented to meet Chesapeake Bay total maximum daily load (TMDL) goals for nutrients and sediment to provide additional benefits of mitigating key stressors identified as important to stream health.

11:35   Update on Permitting Sub-Committee – *Alison Santoro (MD DNR)*

11:45   Concluding remarks and adjourn meeting.

==*Please note that meeting will be recorded for internal use to ensure the accuracy of notes*==