

USGS Nomination for CBP Water-Quality Goal Implementation Team

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James (Jimmy) Webber currently leads the USGS efforts to understand the water-quality response to implementation of nutrient and sediment reduction practices in the Chesapeake watershed. He leads the USGS SIMPLE project (Science to Inform Management Priorities from Loads to Endpoints), which interacts with CBP stakeholders to understand their science needs, and conducts synthesis and new research to inform water-quality management decisions. The SIMPLE team has made numerous presentations to the WQ GIT and associated work groups and developed working relationships with individual jurisdictions to understand their needs and apply water-quality findings. As leader of the SIMPLE team, he has extensive experience communicating management-relevant findings to federal, state, and local partners. Having Jimmy on the WQ GIT will help carry out increased emphasis on using monitoring results to assess progress toward CBP water-quality outcomes.

As part of the SIMPLE team, Jimmy also collaborates with numerous researchers to advance the understanding of factors affecting water-quality changes in the Chesapeake watershed and their relation to estuary conditions. The efforts include working with EPA and academic researchers on several groups associated with the CBP Scientific, Technical Assessment and Reporting (STAR) team on new approaches to analyze the factors affecting water-quality changes and how to apply the findings to better assess progress toward reducing nutrients and sediment. Jimmy is also has a member of the USGS Chesapeake Bay Science Team, which provides leadership to guide and plan science activities across the Bay watershed.

In addition to his leadership of the SIMPLE team, Jimmy has led water-resource projects in the Virginia and West Virginia Water Science Center since 2014. His projects primarily focus on evaluating nutrient and sediment loads in urban and agricultural watersheds and identifying management-practice effects. James holds a M.S. in Forest Resources from the Pennsylvania State University.

SELECTED PUBLICATIONS

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- Porter, A.J., **Webber, J.S.**, Witt, J.W., and Jastram, J.D., 2020, Spatial and temporal patterns in streamflow, water chemistry, and aquatic macroinvertebrates of selected streams in Fairfax County, Virginia, 2007–18: U.S. Geological Survey Scientific Investigations Report 2020-5061, p. 106, <https://doi.org/10.3133/sir20205061>.
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