ECOSYSTEM MANAGEMENT AND RESTORATION RESEARCH PROGRAM

EARLY FALL WEBINAR SERIES

SEPT. 25Conceptualizing the Downstream Ecological Effects of Reservoir1:00 PM (CT)Sediment Release: Geomorphic, Water Quality, and Aquatic
Organism Changes



Ms. Darixa Hernandez-Abrams *Research Ecologist* ERDC-EL Vicksburg, MS Sustainable sediment management is necessary to restore and maintain reservoir storage capacities and sediment regimes in sediment-starved downstream ecosystems. However, releasing sediment from reservoirs has environmental implications that must be carefully considered. This presentation focuses on a comprehensive conceptualization of the direct and indirect effects of reservoir sediment release synthesizing by geomorphology, water guality, and aguatic organism changes. Through a literature review and conceptual models, we aim to contribute to an understanding of the intricate interdependencies within these ecosystems and inform sustainable environmental management practices. We will also present an overview on how environmental effects are being considered in a Water Injection Dredging Pilot Study in Tuttle Creek Reservoir, KS.

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