

ACCELERATED WATER RESTORATION APPROACHES IN FLORIDA

Pamela J. Dugan, Scott Shuler

EutroPHIX, Spring Hill, FL, USA

Water resources across the globe are under severe pressure due to increasing anthropogenic impacts caused by excess nutrient loading, in particular phosphorus. Lakes and streams that were once oligotrophic and healthy are rapidly becoming highly eutrophic with recurring harmful algal blooms that put human health, wildlife, and local economies at risk. There is significant demand for accelerated lake restoration and the development of operationally and technically efficient technologies for sustainable water resource management. This paper will provide an overview of new water resource management and nutrient-mitigation strategies for accelerated restoration of phosphorus-impaired water bodies. Innovative ways to implement these technologies will be highlighted along with current and upcoming restoration efforts within the State of Florida and the benefit these projects would bring to Floridians.

PRESENTER BIO: Dr. Dugan is a Water Quality Technical Specialist based in Florida with more than 20 years of experience planning, designing, and implementing water resource restoration projects. She has extensive experience with nutrient mitigation strategies and harmful algal bloom management for accelerated water quality improvement.