



U.S.ARMY®

ERDC UPDATES

**Great Lakes Dredging Team Annual Meeting
Milwaukee, WI
September 14, 2022**

Karen Keil

EL ENVIRONMENTAL
LABORATORY



**COASTAL &
HYDRAULICS
LABORATORY**



**US Army Corps
of Engineers**®



DISCOVER | DEVELOP | DELIVER

The Great Lakes Beneficial Use Testing Manual has been published!

ERDC/EL TR-22-9



**US Army Corps
of Engineers®**
Engineer Research and
Development Center



Dredging Operations Technical Support Program

Environmental Evaluation and Management of Dredged Material for Beneficial Use

A Regional Beneficial Use Testing Manual for the Great Lakes

Karen G. Keil, Trudy J. Estes, Joseph P. Kreitinger, Guilherme R. Lotufo, August 2022
Richard A. Price, Burton C. Suedel, Michael W. Habberfield,
Bryan A. Hinterberger, Andrew M. Lenox, Scott W. Pickard,
Martin P. Wargo, Jason M. Miller, Jennifer A. Miller, and
Paul R. Schroeder



Approved for public release; distribution is unlimited.

Environmental Laboratory

Available on these websites:

[https://www.lre.usace.army.mil/Missions/
Great-Lakes-Information/Great-Lakes-
Dredging-Team/Publications/](https://www.lre.usace.army.mil/Missions/Great-Lakes-Information/Great-Lakes-Dredging-Team/Publications/)

<https://dots.el.erdcdren.mil/guidance.html>

<https://budm.el.erdcdren.mil/guidance.html>



US Army Corps
of Engineers®
Engineer Research and
Development Center



Dredging Operations Technical Support Program

Environmental Evaluation and Management of Dredged Material for Beneficial Use

A Regional Beneficial Use Testing Manual for the Great Lakes

Karen G. Keil, Trudy J. Estes, Joseph P. Kreitinger, Guilherme R. Lotufo, August 2022
Richard A. Price, Burton C. Suedel, Michael W. Habberfield,
Bryan A. Hinterberger, Andrew M. Lenox, Scott W. Pickard,
Martin P. Wargo, Jason M. Miller, Jennifer A. Miller, and
Paul R. Schroeder



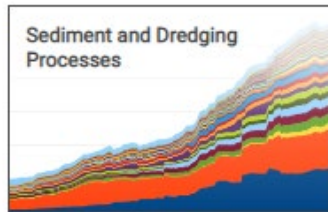
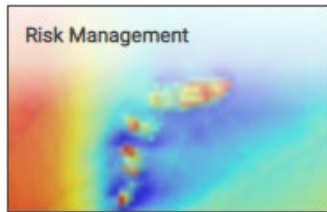
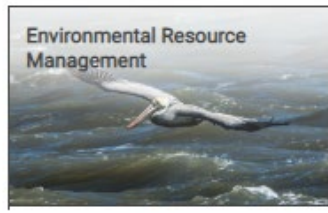
Approved for public release; distribution is unlimited.

*New guidance manual
for the Great Lakes*

This manual is dedicated to Mr. Tony Friona, who was an early proponent of the beneficial use of dredged material to support remedial and restoration efforts across the Great Lakes. Officially, Tony served as the USACE Regional Working Group co-lead for the Great Lakes Restoration Initiative. Unofficially, he was so much more: a visionary colleague and friend who, with his contagious enthusiasm, inspired us to work together to better our region. His light will continue to shine on in the work that we do and in the relationships we form along the way.

Dredging Operations and Environmental Research Program

Focus Areas



The screenshot shows the website for the Dredging Operations and Environmental Research (DOER) Program. The header includes navigation links for 'DOER Program', 'Projects +', 'Resources +', and 'Contact Us'. The main banner features a photograph of a dredging vessel on a waterway, with the text 'Dredging Operations and Environmental Research' and 'U.S. Army Corps of Engineers'. Below the banner is a navigation menu with icons for home, menu, and email. A 'Discover' button is visible, followed by the section 'The DOER Program' which contains a detailed description of the program's mission and goals. To the right, a 'Connect' button leads to a 'Program Leaders' section, which lists the Program Manager, Todd S. Bridges, Ph.D., and the Assistant Program Manager, J. Daniel Farrar, along with their titles and contact information.

- Improving aquatic beneficial use of dredged material placement practices in the Great Lakes (*January 2022 through September 2024*)
- Field performance of activated carbon amendments as a function of the application (*October 2022 through September 2025*)
- Support Tools for Communicating Risks of Microplastics and Nanoplastics in Dredged Sediments (*October 2022 through September 2023*)

Engineering **With Nature**

- Beneficial Use of Dredged Material at Woodtick Peninsula for Coastal Wetland Creation and Protection
- Sustainable, Tunable, and Bioreceptive Cementitious Materials for EWN® Infrastructure Solutions

