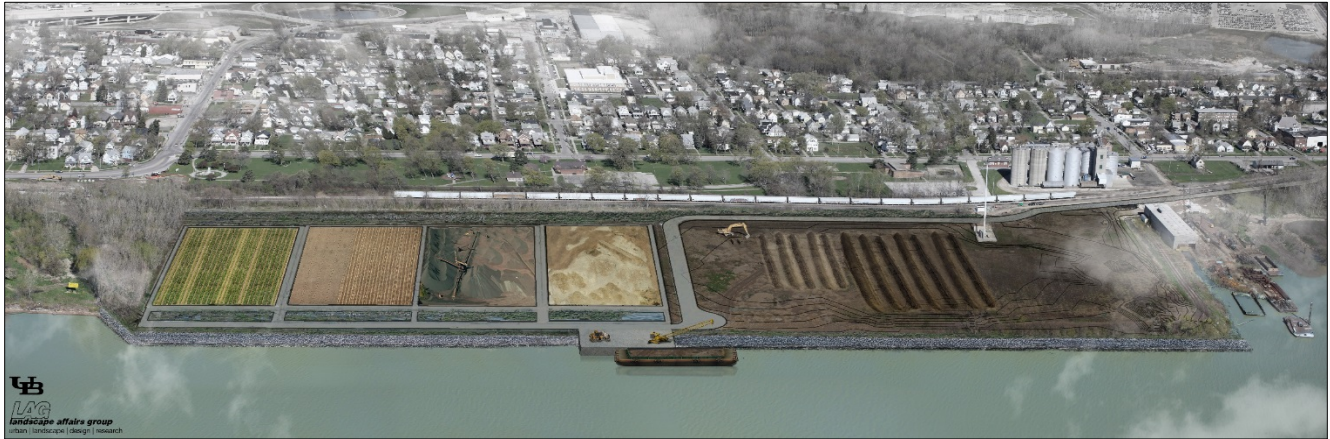




GREAT LAKES DREDGED MATERIAL CENTER FOR INNOVATION



The Toledo–Lucas County Port Authority received a \$2.5 million Ohio Healthy Lake Erie Fund grant to design and construct the Great Lakes Dredged Material Center for Innovation at the Riverside CDF in north Toledo. This project will help local leaders evaluate dredged material placement, dewatering, use of interim cover crops, soil amendments, and other testing, operations and maintenance activities necessary to plan for the full-scale implementation of the beneficial use of dredged materials for agricultural and blended soil product purposes.

This grant will fund design, permitting and construction activities for:

- **Agricultural Technology Field Testing Area:** four 2.5-acre cells to demonstrate and analyze the feasibility of enhancing agricultural fields with dredged material. The cells can be used independently to evaluate various treatments or amendments, consolidation rates, plantings, etc.
- **Edge-of-Field Treatment System Research Area:** an underdrain tile system installed in the cells to drain water into an edge-of-field treatment system. This water management and treatment system can support future nutrient runoff reduction research.
- **Blended Soil Production Area:** dredged materials will be blended with other materials, including leaf compost from the city of Toledo’s composting facility. A Materials Certification Program will be established to ensure that appropriately prepared dredged material-based blended products are acceptable for unrestricted public and commercial uses.
- **Mooring Area:** improvements may be made at the riverfront for a dredged material offloading area.

- **Site Access and Infrastructure:** potential improvements include an access road upgrade/extension, water and sewer extensions, and security fencing and gates.

Dredged material will be transported from barges to the cells by hydraulic means where the material will be consolidated and dewatered using the drainage system and edge-of-field treatment system. A mooring and bulkhead structure may be constructed to accommodate hydraulic or mechanical offloading. The facility will initially accommodate approximately 100,000 cut cubic yards of dredged material. Ramped up production of blended soil product could facilitate a significant volume of material leaving the site once the Material Characterization Program is established and placed dredged materials are dry enough and ready for processing. Dredged materials are anticipated to be placed over the next two years. Future site activities and analyses are anticipated to extend beyond the June 2017 Healthy Lake Erie Fund project period completion date.

TEAM

Project Lead and Grant Recipient: Toledo–Lucas County Port Authority

Project Funder: State of Ohio – Healthy Lake Erie Fund

Grant Co-Administrators: ODNR and Ohio EPA

Property Owner and Partner: City of Toledo

Lead Project Consultant: Hull & Associates, Inc.

Other Team Members: Moffat & Nichol, DGL Consulting Engineers, TetraTech, University of Toledo, and Garcia Surveyors

PROJECT CONTACTS

Scudder D. Mackey, Ph.D.
 Chief
 Office of Coastal Management
 Ohio Department of Natural Resources
 (419) 626–7980
scudder.mackey@dnr.state.oh.us

Pamela Allen
 Director’s Office – Lake Erie Issues
 Ohio EPA
 (614) 644–2782
Pamela.Allen@epa.ohio.gov

Mr. Joseph Cappel
 Vice President
 Business Development
 Toledo–Lucas County Port Authority
 (419) 243–8251
jcappel@toledoportauthority.org

John H. Hull, P.E., BCEE – Chairman
 Fernando Camargo, P.E. – Project Manager
 Hull & Associates, Inc.
 3401 Glendale Avenue, Suite 300
 Toledo, Ohio 43614
 (419) 385–2018
jhull@hullinc.com
fcamargo@hullinc.com

