





What Is The Great Lakes Dredging Team?

- Team of Great Lakes State (2 per State)
 & Federal Partners (USACOE, EPA, USCG, Etc.)
 All With Great Lakes Dredging Interests
- Team Has Several Standing Committees:
 - Legislative
 - Outreach
 - Technical ("Super Committee")
 - Dredging Windows
 - Open Lake Placement
 - Beneficial Use of Dredged Material
 - CDF Management
- No "Standing \$\$" For Products



Great Lakes Dredging Team BU Projects:

- Currently Has Four Beneficial Use/CDF Management Projects (2014-2015)
 - CFIRE Funded Project (Gene)
 - Three Buffalo District Funded Projects (Preetam)



- UW-Madison Institute Funds Research & Outreach of Sustainable Freight Transportation Infrastructure & Systems
- Includes All Four Transportation Modes
 - CFIRE Funded Our Recent BU Summit Project
 - This Project an Outcome From the BU Summit With DOT's



Project title: Integrated Strategy for Beneficial Use of Dredged Materials in Great Lakes Commercial Ports (1 Yr Grant: Sept 2014 - Aug 2015)

- Project PI's:
 - Dr. Bill Likos, Ph.D.

University of Wisconsin - Madison Geo-technical Engineering Professor

Dave Knight, Ret.

Great Lakes Ports & Navigation Specialist Great Lakes Commission & Dave Knight LLC

Gene Clark, PE

University of Wisconsin Sea Grant Institute Coastal Engineering Specialist



- Task #1: Laboratory and Field Characterization of Material in Representative Great Lakes CDFs (Bill Likos lead)
 - Determine Best Ways to Characterize CDF Material
 - Compare CDF Samples to Needed Material Examples (WDOT specs, construction material, etc.)
 - Suggest Methods To Amend Material if Necessary
 - Use Three (3) WI Case Study CDF's
 - Milwaukee CDF (standard "Box")
 - Green Bay CDF (cell design)
 - Duluth/Superior Erie Pier CDF (Converted to PRF)



• Task #2: Enhancement of Existing GLC/GLDT CDF Web-based Screening Tool (Dave Knight lead)

- Tool Highlights CDF Material (types & amounts)
- Tool is Several Years Old & Needs Updating



This web site is a preliminary screening tool to help identify potential sources of sediment for reuse. Information provided from this web site is generated from data provided by the U.S. Army Corps of Engineers. Appropriate state and local authorities may be able to provide additional information. Also, please visit <u>Marketing Dredged Sediment for Beneficial Use</u> for more information.





Task #3: Project Outreach to Promote BU of Dredged Materials and CDF to PRF Conversions

(Gene Clark lead)

- Project Webinar For USACOE and CDF Managers
- New Brochure "Converting Existing Great Lakes Confined Disposal Facilities (CDFs) into Processing and Reuse Facilities (PRFs)
 - Examples of how material can be characterized and compared to potential existing uses
 - Examples of Case Study CDF modifications for CDF to PRF Transformation



• Task #1: Laboratory and Field Characterization of Material in Representative Great Lakes CDFs (Bill Likos lead)









