Integrated strategy for beneficial use of dredged materials in Great Lakes commercial ports

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Who or What is CFIRE??

- 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 PI’s:
  • Dr. Bill Likos, Ph.D.
    University of Wisconsin - Madison
    Geo-technical Engineering Professor
  • Dave Knight LLC, GLC
  • Gene Clark, PE UW Sea Grant
2015 GLDT Annual Meeting

June 3-4, 2015

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

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