Beneficial Uses of Dredged Material

Harbors & Navigation Committee Meeting

Feb 12-13 2014

Alabama State Port Authority

US Army Corps of Engineers
BUILDING STRONG®
Beneficial Uses of Dredged Material

Definition: Utilizing dredged sediments as resource materials in productive ways which provide environmental, economic, or social benefit.

• Habitat Development
• Shore Restoration/Protection
• Reclamation
• Construction/Industrial
• Agriculture/Horticulture
The Federal Standard is defined in USACE regulations as the least costly dredge material disposal or placement alternative identified by USACE that is consistent with sound engineering practices and meets all federal environmental requirements, including CWA and MPRSA.
COASTAL ZONE QUANTITIES

MS | AL | FL
Sand | Fine Grained

MCY

0 1 2 3 4 5 6 7 8 9
COASTAL ZONE QUANTITIES

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- Sand
- Fine Grained
- BU Sand
- BU Fine Grained
What Constitutes Beneficial Use?
BASIC QUESTIONS?

• Environmentally Acceptable?

• Cost Benefit?

• Legal Constraints?
• Who is Defining Beneficial Use and Why?
• Are the Expectations Reasonable?
• Will Beneficial Use Govern Funding?
• Does Beneficial Use Jeopardized Long-Term Management Plans?
Selling Points?
### Dredge Material Ratios:

<table>
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<tr>
<th>Material</th>
<th>Ratio</th>
<th>Description</th>
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<tbody>
<tr>
<td>In-Situ Channel Material</td>
<td>1 : 2</td>
<td>Initial Placement Into Site</td>
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<td>In-Situ Channel Material</td>
<td>1 : 1</td>
<td>Within Site Relay Material</td>
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<td>In-Situ Channel Material</td>
<td>2 : 1</td>
<td>Truck Haul</td>
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<td>In-Situ Channel Material</td>
<td>3 : 1</td>
<td>Dike and Final Floor Material</td>
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MOBILE DISTRICT

DEER ISLAND 204 SITE
THE BUG

• Gather the Decision Makers
• Present Your Problem
• Solicit “Out of the Box” Solutions
• Find Common Ground
• Foster Ownership of Solutions
• Assign Homework
• Accountability
• Pilot Projects
• Myth Buster
FY13 RSM IPR-Mobile District
Evaluation of Short Term Biodegradable Containment Structures for Shallow Water BU
Nate Lovelace (SAM), Larry Parson (SAM)
FY13 RSM IPR-Mobile District
Evaluation of Short Term Biodegradable Containment Structures for Shallow Water BU
Nate Lovelace (SAM), Larry Parson (SAM)
DO YOU HAVE A BUG ENDORSED MASTER PLAN?

• Environmentally Acceptable
• Cost Benefit – Fed Standard
• Legal
• Proactive vs Reactive
• Shovel Ready Project
ANY QUESTIONS?