COASTAL RESTORATION
CONSTRUCTION CHALLENGES
COASTAL RESTORATION

TRACK RECORD OF SUCCESS

• Beneficial Use
• Environmental Allies
• Nationwide Success Stories
  o West Coast
  o East Coast
  o Gulf Coast
  o Mississippi River
WHAT DO WE NEED TO MAKE THIS WORK?

- National Commitment to the coast
- Millions for maintenance not Billions for damages
- Collaboration
- Consistent Funding
- Coastal Research
COASTAL RESTORATION

UNDERSTANDING EXPECTATIONS

MUTUAL CHALLENGE

- Adaptability
- Funding
- Efficiency
- Industry Days
COASTAL RESTORATION

UNDERSTANDING EXPECTATIONS

MUTUAL CHALLENGE

- Project versus Program
- Forecasts
- Sustainability
- Transparency
- Industry Days
LOUISIANA SPECIFICS

- Material Sources
- Design of borrow and fill
- Tolerances
- Environmental
- Lessons Learned
LOUISIANA GENERAL

- Restoration Concepts
- Construction Scheduling
- Maintenance
TECHNICAL CONSIDERATIONS

- Transport or pumping Distances
- Borrow location – Offshore or River sources
- Equipment selection
  - Hoppers
  - Cutters
- Boosters
- Alternate energy sources
TECHNICAL CONSIDERATIONS

• Pipeline inventory & logistics
• Pipeline Routes
• Crossings – levees, utilities, highways, etc.
• Factors affecting operating efficiency
TECHNICAL CONSIDERATIONS

- UED
- % Fines Content
- Wear characteristics
- Suitability for restoration purpose
- Quality of insitu materials at restoration site
- Suitability of containment features
- Return water quality
TECHNICAL CONSIDERATIONS

- Equipment Selection & Configuration
  - Cutterheads
  - Dragheads
  - Impellers
  - Ladder Lengths and configuration
  - Spud Carriages or anchors
  - Anchor types
  - Land Equipment Spread
SANDY SPECIFICS

- Lessons Learned
- Sand Sources
- Design of Borrow and Fill
SANDY GENERAL

• Project Scheduling
• Environmental Windows
• Maintenance
FLORIDA SPECIFICS

• Lessons Learned
• Sand Sources
• Design of Borrow and Fill
FLORIDA GENERAL

- Project Scheduling
- Environmental Windows
- Maintenance
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