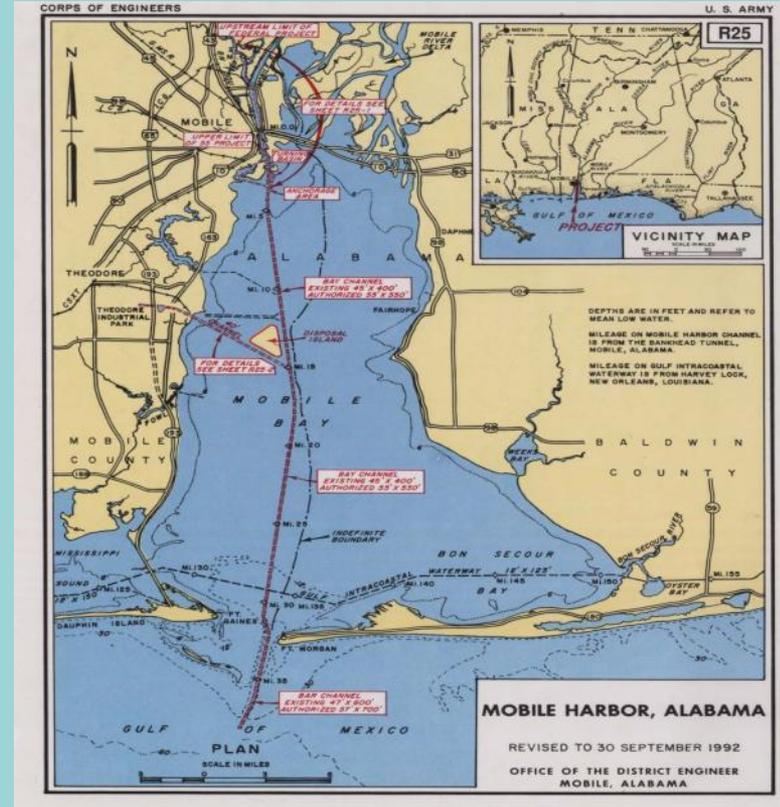
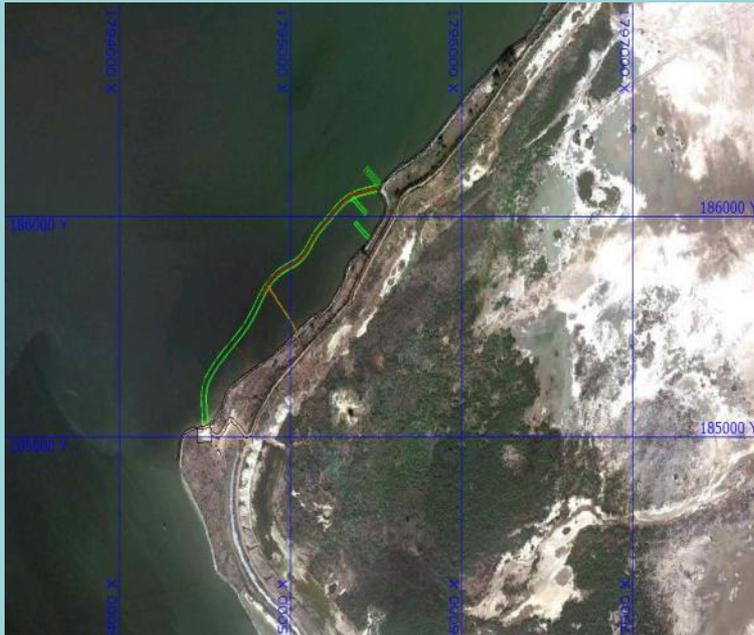


# FY13 RSM IPR-Mobile District

## Evaluation of Short Term Biodegradable Containment Structures for Shallow Water BU Nate Lovelace (SAM), Larry Parson (SAM)

### Description/Challenges

- Demo project to explore environmentally acceptable containment structures to help conserve O&M funds and promote restoration opportunities
- Opportunities exist to develop shallow water areas into wetlands by consolidating fine-grained sediments using temporary/affordable containment structures



### Objectives

- Determine strength, life expectancy and constructability of burlap geotubes and silt curtains
- Further Develop biodegradable and composite silt curtain

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## Evaluation of Short Term Biodegradable Containment Structures for Shallow Water BU Nate Lovelace (SAM), Larry Parson (SAM)

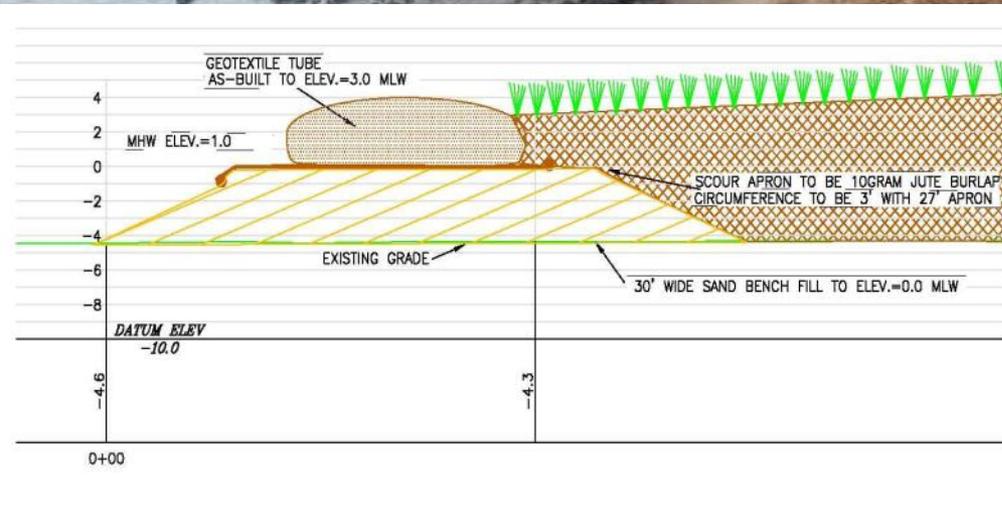
### Approach

- Vented burlap approach thru IWG and integrated IWG ideas into concept/design
- Select location that did not require new permit action
- Allow industry/mmanufacturer the opportunity to lead in technical design efforts
- Use O&M funds to construct and coordinated use of ongoing adjacent dredging efforts for post filling



### Deliverables

- Interagency RSM Working Meeting (ongoing)
- Tech Note: Use of Temporary Biodegradable Containment Structures
- Design and build the demonstration project

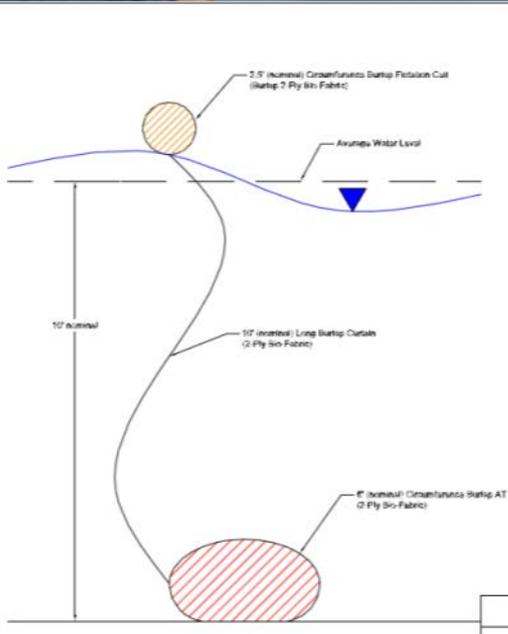


# FY13 RSM IPR-Mobile District

## Evaluation of Short Term Biodegradable Containment Structures for Shallow Water BU Nate Lovelace (SAM), Larry Parson (SAM)

### Accomplishments/Benefits/Lessons Learned

- Burlap seam strength calculations appeared to be accurate
- Great success with both 100% bio curtain and composite curtain designs
- Overestimated foundation material strength
- ASA unable to withstand wave/storm conditions



# FY13 RSM IPR-Mobile District

## Evaluation of Short Term Biodegradable Containment Structures for Shallow Water BU Nate Lovelace (SAM), Larry Parson (SAM)

### District PDT Members

- Larry Parson - Planning
- Nate Lovelace - Operations
- Elizabeth Godsey – Engineering
- Carl Dyess – Operations
- Jenny Jacobson - Planning

### Interagency Working Group (IWG)

- Mobile Bay Interagency Working Group (IWG)
- Alabama Department of Conservation and Natural Resources (ADCNR), State Lands Division
- ADCNR, Marine Resources Division
- Alabama Department of Environmental Management
- Alabama State Port Authority
- U.S. Fish and Wildlife Service
- NOAA, National Marine Fisheries Service
- Alabama/Mississippi Sea Grant
- Mobile Bay National Estuarine Program
- The Nature Conservancy (TNC)

### Leveraging/Collaborative Opportunities

- Ensures the IWG SAM's commitment level to solve sediment and deposition issues in Mobile Bay
- Allowed for IWG members to participate in design and post construction teambuilding (planting, etc.)











