

COASTAL PROTECTION AND RESTORATION AUTHORITY

MAY 9, 2025

Operation and Maintenance of Coastal Restoration Projects

BARRY RICHARD, CPRA CONSTRUCTION, OPERATIONS, AND MAINTENANCE MANAGER



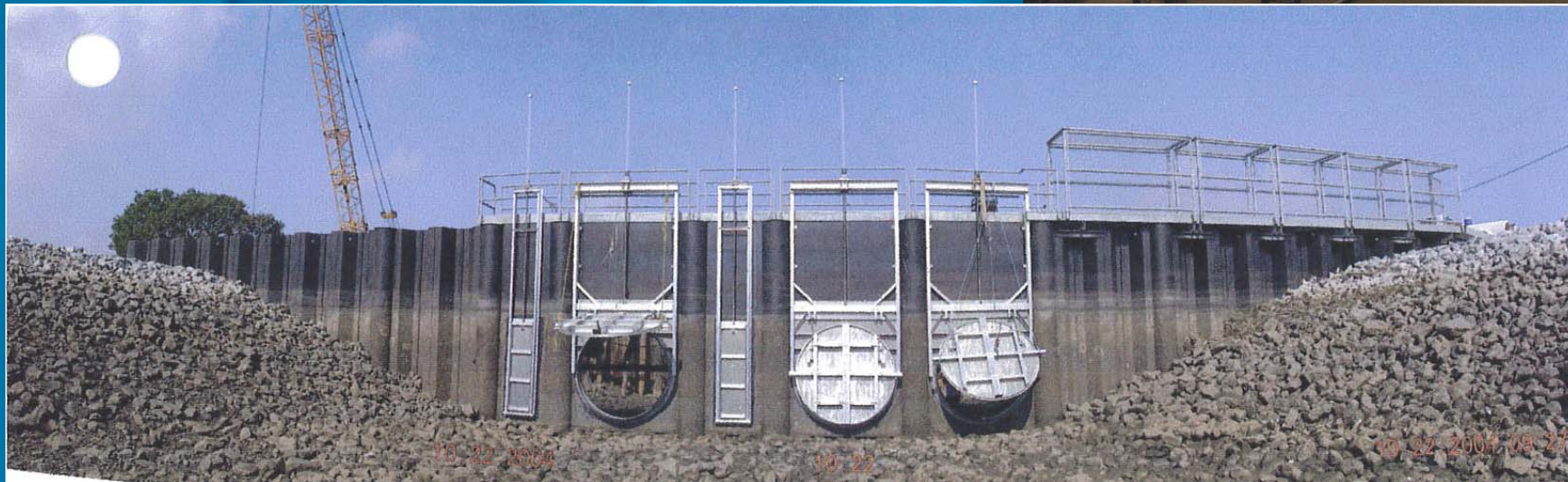
RESTORATION PROJECT TYPES

- MARSH CREATION
- BARRIER ISLAND RESTORATION
- RIDGE RESTORATION
- SHORELINE PROTECTION
- HYDROLOGIC RESTORATION



HYDROLOGIC RESTORATION MAINTENANCE FEATURES

- ❖ Freshwater Diversions (Siphons)
- ❖ Water Control Structures
- ❖ Canal Weirs and Plugs



FRESHWATER DIVERSIONS SIPHONS

- ❖ Operations
- ❖ Painting
- ❖ Part Replacement
- ❖ Intake and Outfall





















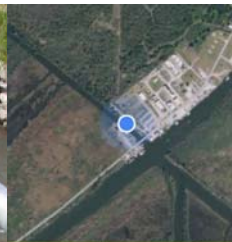


WATER CONTROL STRUCTURES

- ❖ Operations
- ❖ Preventative Maintenance
- ❖ Part Repair/Replacement
- ❖ Structural Repairs
- ❖ Intake and Outfall







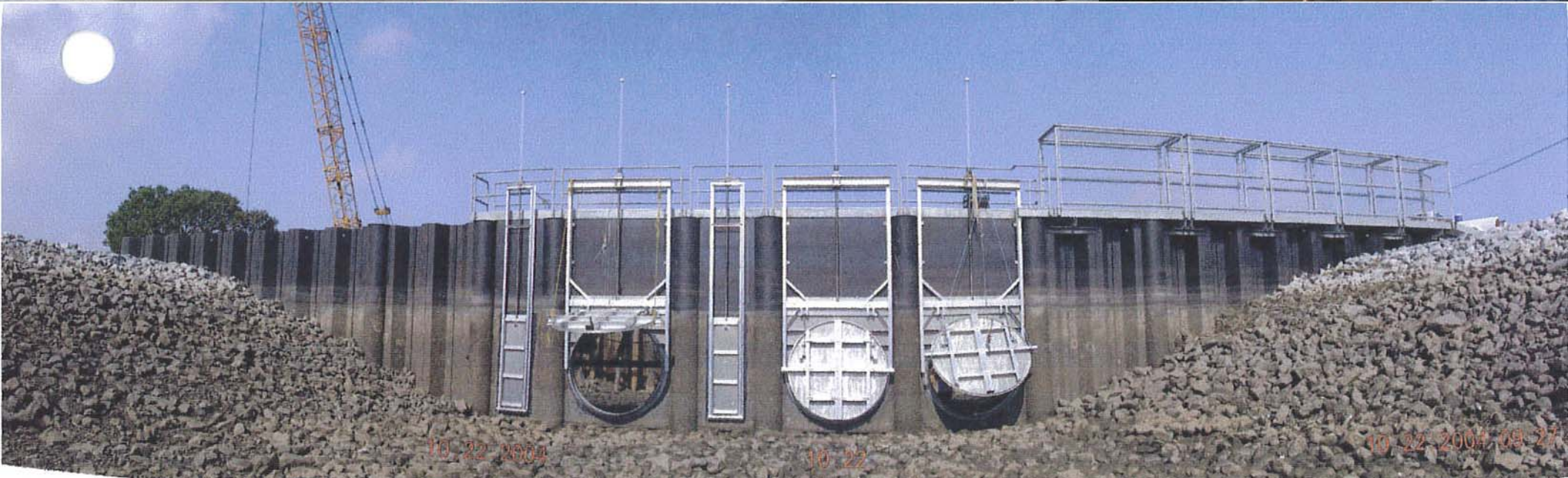
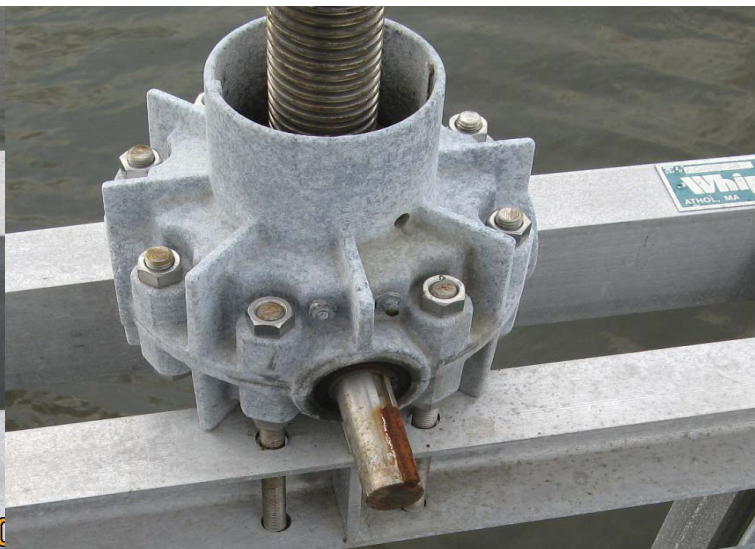
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N 29° 49' 8", W 89° 36' 48"
7501 Hopedale Hwy
Saint Bernard LA 70085
United States







05/15/20



10/22/2004

10/22

10/22/2004 09:27

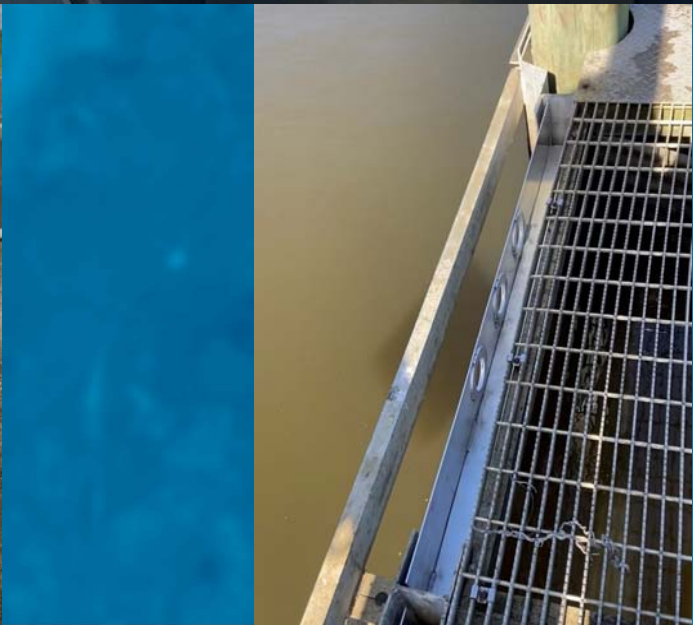










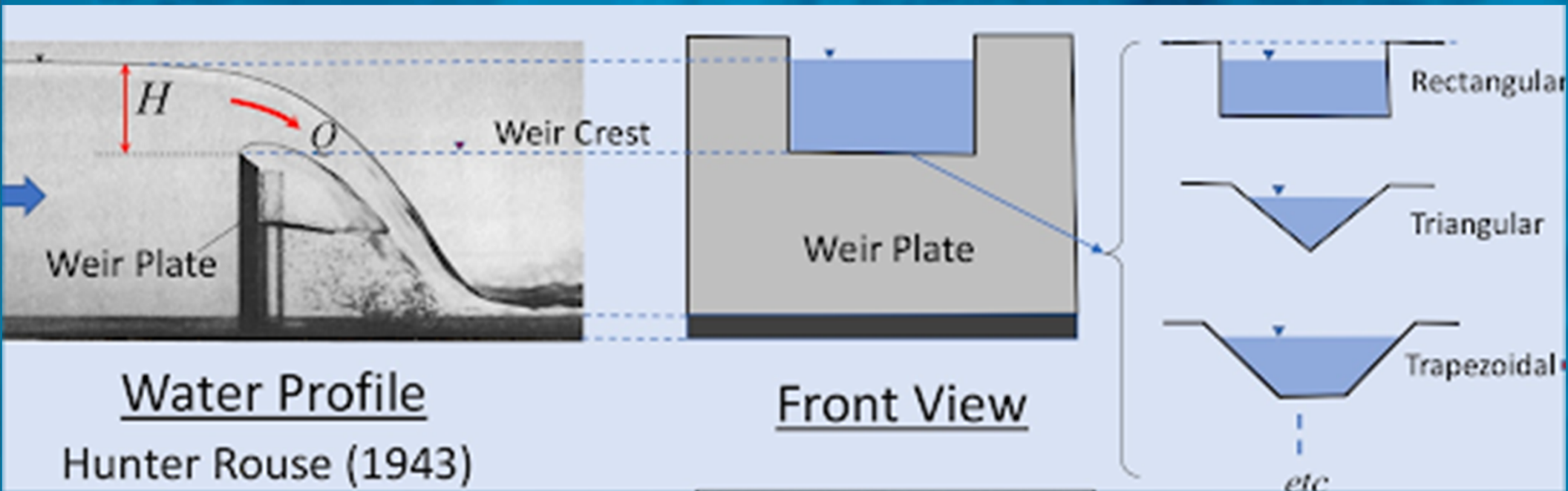






CANAL WEIRS AND PLUGS

- ❖ Repair/Additions
- ❖ Aids to Navigation











SHORELINE PROTECTION MAINTENANCE FEATURES

- ❖ Rock Dike
- ❖ Concrete Panel Wall
- ❖ Living Shoreline
- ❖ Others



ROCK DIKE

- ❖ Addition (Lifts)
- ❖ Aids to Navigation















07/02/2014





CONCRETE PANEL WALL

- ❖ Repair/Replace
- ❖ Aids to Navigation







04/12/2012 11:40



04/12/2012 11:44

LIVING SHORELINE

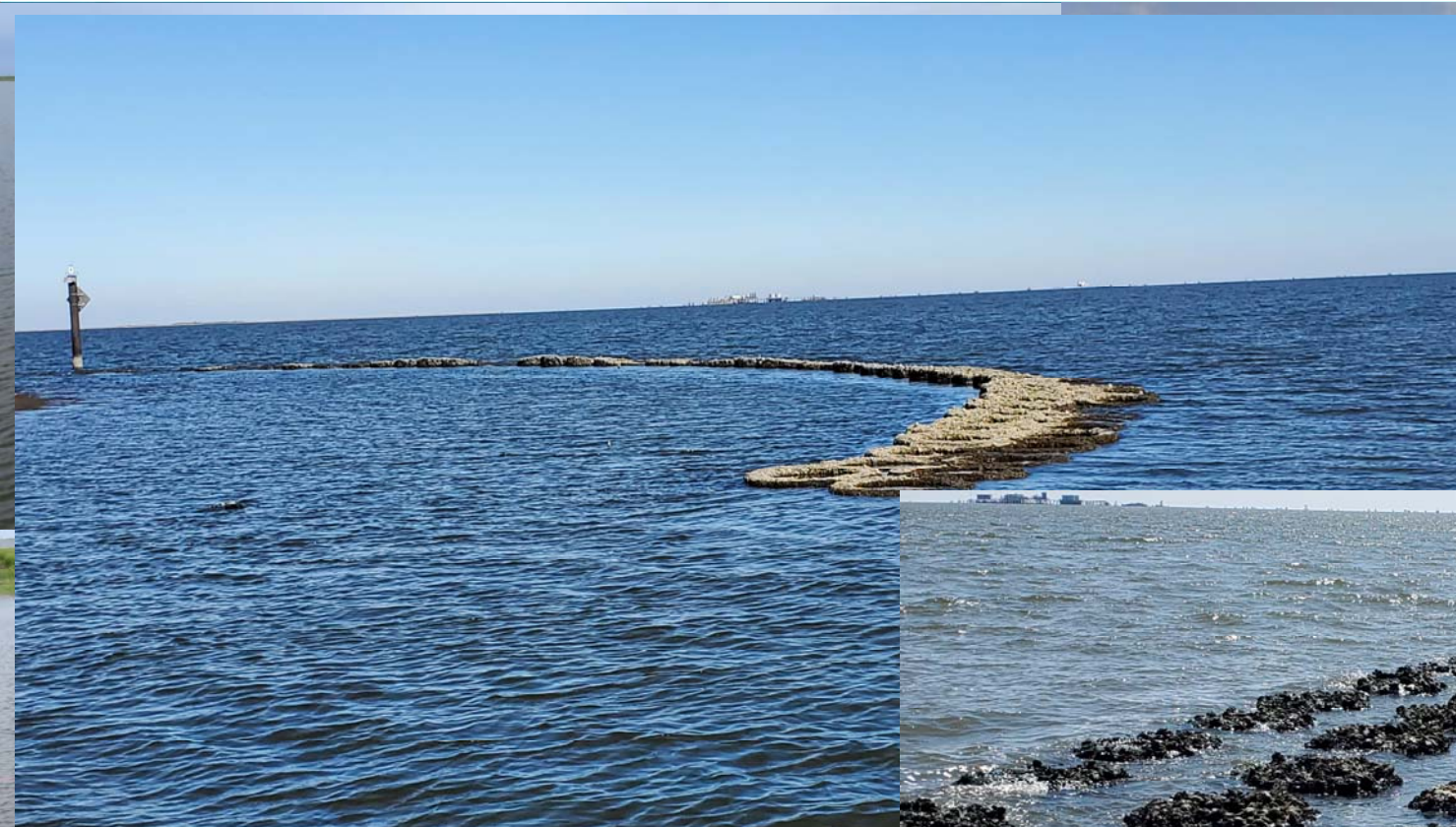
- ❖ Replace
- ❖ Aids to Navigation









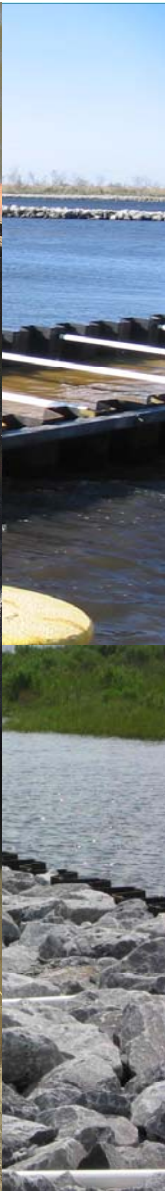


OTHER METHODS OF SHORELINE PROTECTION

- ❖ Sheet Pile (Steel/Vinyl)
- ❖ Articulated Concrete Mat (ACM)
- ❖ Earthen Terraces

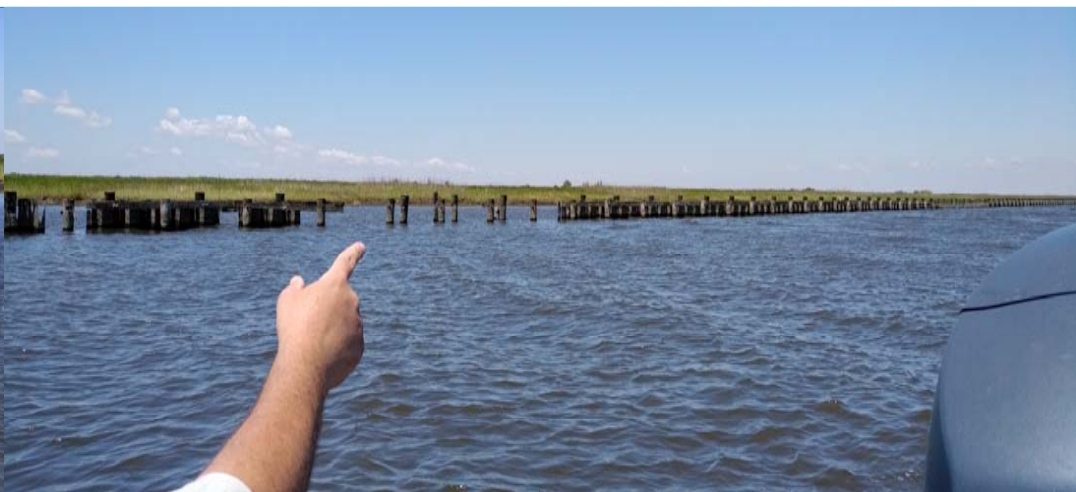














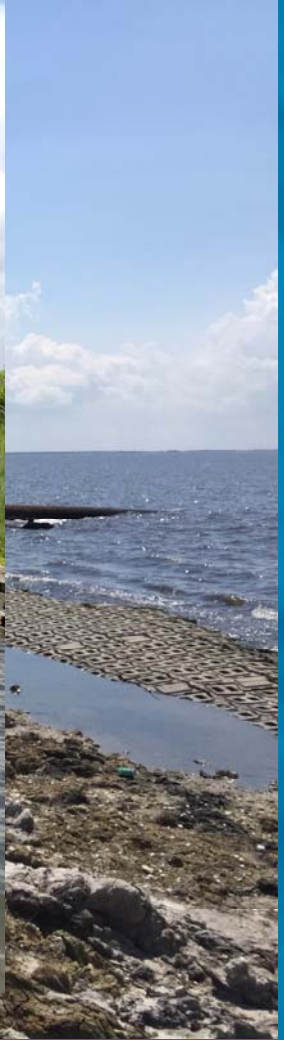
















Taken March 15, 2017
Patrick M. Quigley
www.gulfcoastairphoto.com
Slidell, LA 985.788.3458
A SDAV owned small business.



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EARTHEN RESTORATION MAINTENANCE FEATURES

MARSH, RIDGE, AND BARRIER ISLAND RESTORATION

- ❖ Containment Dikes
- ❖ Tidal Features
- ❖ Vegetative Plantings
- ❖ Sand Fencing
- ❖ Settlement Plates (and ISPs)

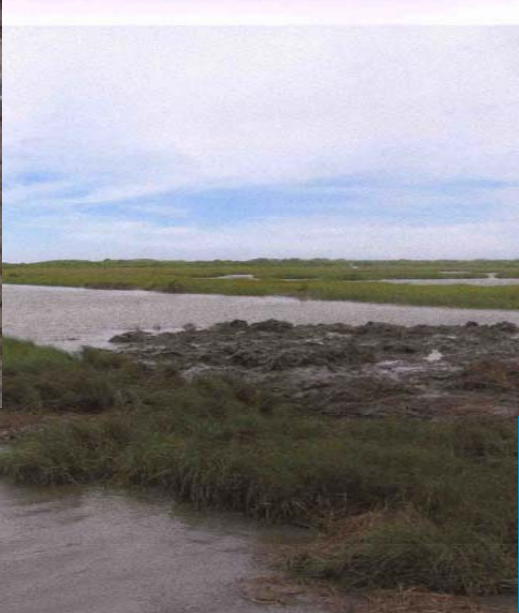
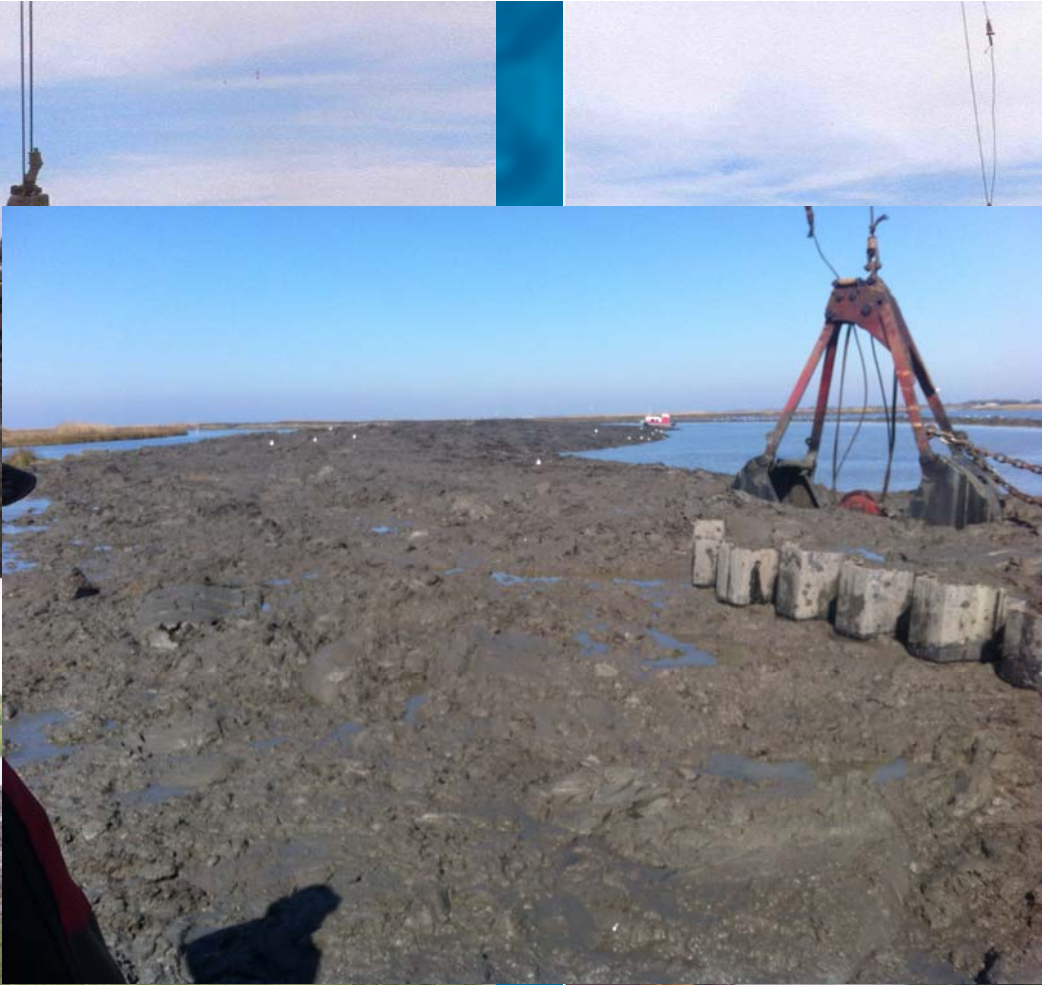


CONTAINMENT DIKES TIDAL FEATURES

- ❖ Construction
- ❖ Protection
- ❖ Beaux Beaux's
- ❖ Degradation
- ❖ Gapping
- ❖ Waterfowl Habitat Areas (WHA's)
- ❖ Tidal Creeks











04/23/2009











07/31/2012 10:40



07/31/2012 10:40





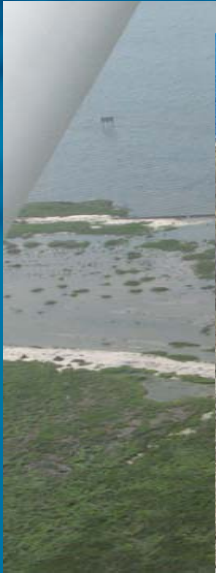


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VEGETATIVE PLANTINGS

- ❖ Marsh
- ❖ Terrace
- ❖ Ridge
- ❖ Beach

























SAND FENCING



















SETTLEMENT PLATES

- ❖ Good ole Fashioned SPs
- ❖ Instrumented Settlement Plates (ISPs)



















WHO...

...has a question?



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