

1. Sites of beneficial use of dredged material.

## CALCASIEU RIVER: Black Lake Site



Although placement of dredged material primarily occurred during FY 2010 at the Black Lake Site (under contract W912P8-09-C-0069), some material was pumped into this marsh creation site during early FY 2011.

A total of approximately 3,159,825 cubic yards of shoal material removed from the Calcasieu River channel during FY 2011-2012 was placed at the Black Lake Site.

## ATCHAFALAYA BAY & BAR: Avocet Island & Bird Island West



1. Approximately 339,472 cubic yards of shoal material removed from the Atchafalaya Bay channel during the FY 2011 maintenance dredging event was placed at Avocet Island (a new bird nesting island).
2. Approximately 1,256,759 cubic yards of shoal material removed from the Atchafalaya Bar channel during the FY 2011 maintenance dredging event was placed at Bird Island West (a bird nesting island).

## Beneficial Use of Dredged Material Atchafalaya River – Bay and Bar



Coastal Habitat Acres Created – 5,420

Pre 1985

FY 1985-1995

FY 1997-2000

FY 2001-2005

FY 2006

FY 2008

FY 2009-2010

FY 2009-2011

1. Deltaic peninsulas are created in the inner portion of the Atchafalaya Bay channel.
2. Bird Islands are created in the outer portion of the Atchafalaya Bay and the inner portion of the Atchafalaya Bar channels.



Approximately 1,628,483 cubic yards of shoal material removed from the Horseshoe reach of the Lower Atchafalaya River was placed at Disposal Area "I" during FY 2011 (resulting in the creation of about 30 acres of sub-aerial coastal habitat).

## BAYOU RIGAUD - Fifi Island



Approximately 342,602 cubic yards of shoal material removed from Bayou Rigaud during maintenance dredging operations were placed in the 130-acre Fifi Island marsh creation site.

## BAPTISTE COLLETTE



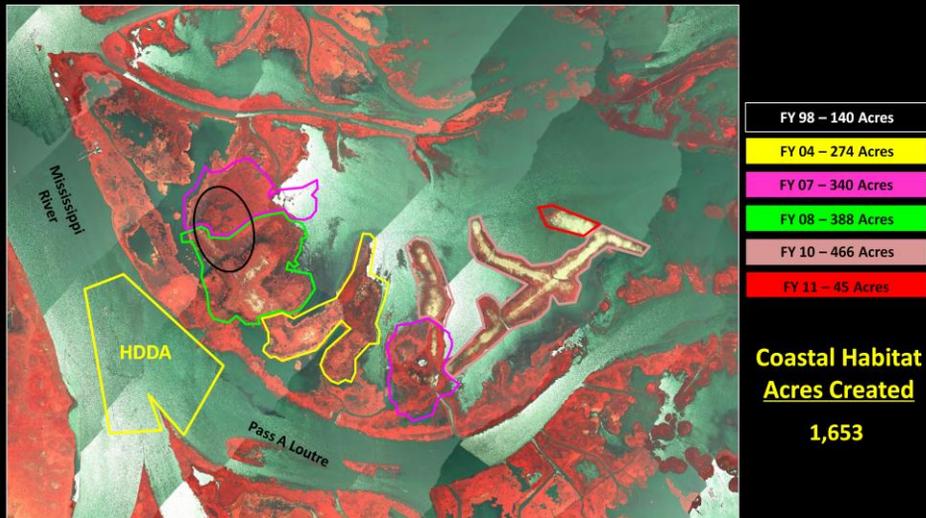
Fiscal Year 2011 Baptiste Collette Maintenance Dredging:

1. Approximately 512,964 cubic yards of shoal material were placed at marsh creation disposal site "G".
2. Approximately 1,041,345 cubic yards of shoal material were placed at Willet Island (a bird nesting island disposal site).

Fiscal Year 2012 Baptiste Collette Maintenance Dredging:

1. Approximately 310,069 cubic yards of shoal material were placed at marsh creation disposal site "E".
2. Approximately 404,255 cubic yards of shoal material were placed at Shea Island (a bird nesting island disposal site).

## HDDA Dredging - Delta National Wildlife Refuge Placement



Although the majority of dredging/disposal work under contract W912P8-09-C-0071 took place in FY 2010, the cutterhead dredge CALIFORNIA was temporarily released from this maintenance dredging work to participate in the state of Louisiana's berm construction project as a response to the Deepwater Horizon oil spill event (from 11 June 2010 through 27 January 2011).

During the FY 2011 portion of this contract work, approximately 1,805,022 cubic yards was removed from the Head of Passes hopper dredge disposal area and placed at Delta National Wildlife Refuge placement site to create about 45 acres of coastal habitat.

# **MVN Beneficial Use of Dredged Material**

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## **FY 2011 Dredging Totals**

**Maintenance Dredging = 75,492,603 CY**

**Beneficial Use = 12,344,408 CY (16.4%)**

## **MVN Beneficial Use of Dredged Material**

### **FY 2011 Dredging Totals**

**Maintenance Dredging = 75,492,603 CY**

**Fluff = 15,960,195 CY**

**Not Available (Remote) = 23,710,594 CY**

**Suitable & Available for BU = 35,821,814 CY**

**Beneficial Use = 12,344,408 CY (35%)**

1. Although approximately 75 million CY was removed during FY 2011 routine maintenance dredging in MVN, the actual number of CY's that is both suitable and available for beneficial use placement each year is a smaller number:
2. **Unsuitable** material = "Fluff". Approximately 16 million CY of "fluff" was removed from the Calcasieu and Atchafalaya River bar channels.
3. **Unavailable** material = Approximately 24 million CY of dredged material was removed from sites that were too distant from suitable beneficial use disposal areas to be affordable.
4. Subtraction of material that is unsuitable and unavailable for beneficial use placement reduces the amount that could have been used beneficially to about 36 million CY's for FY 2011.
5. A recalculation of the amount of dredged material that was used beneficially by deleting the amount that was either unsuitable or unavailable results in a percentage increase in the amount of dredged material that was used beneficially in FY 2011 (to 35% instead of 16%).

**NEW ORLEANS DISTRICT  
Beneficial Use of Dredged material  
1976-2011**

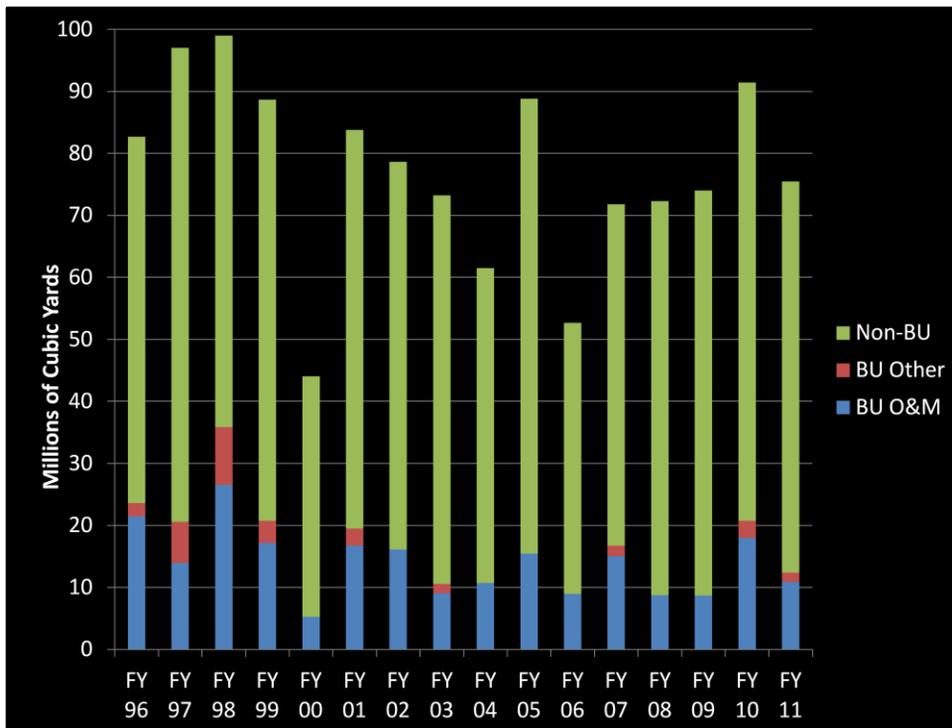
**~ 22,010 acres wetlands**

**~ 3,877 acres other habitats**

**~ 3,000 acres uplands (Southwest Pass)**

**1976- 2011: ~ 28,887 acres of created land  
(~45 square miles of land)**

1. Other Habitats = Bird Islands, Beach/Shoreline, Barrier Islands



1. Decrease in Incremental Cost funding for BU since 1990s (via CWPPRA and CAP)
  - a) Greater reliance on O&M funds to pay for BU of dredged material
  - b) However, O&M funding has not commensurately increased during this time: flat-lined or decreased instead