# Mississippi River Reintroduction into Bayou Lafourche (BA-0161)





BTNEP Management Conference February 5, 2015

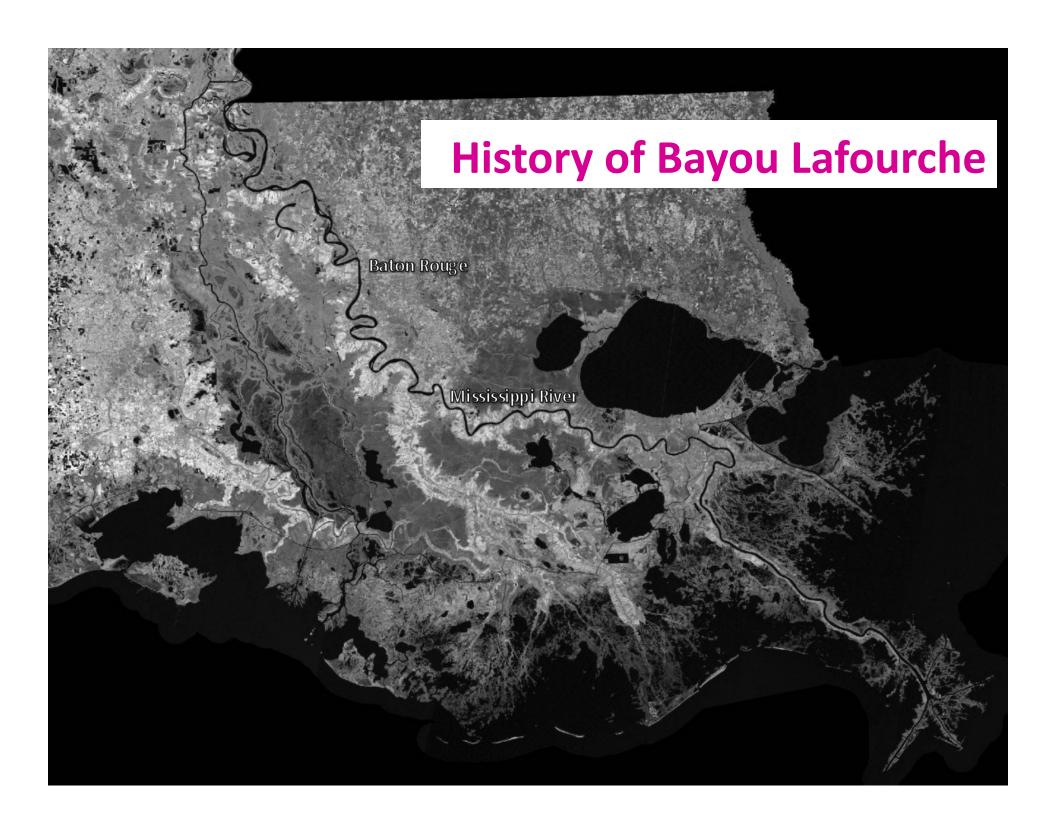
Benjamin J. Malbrough, P.E. Executive Director ben.malbrough@blfwd.org

### Bayou Lafourche Fresh Water District



- History of Bayou Lafourche
- History of MRRBL
- MRRBL Phase II Update
- Future Plans





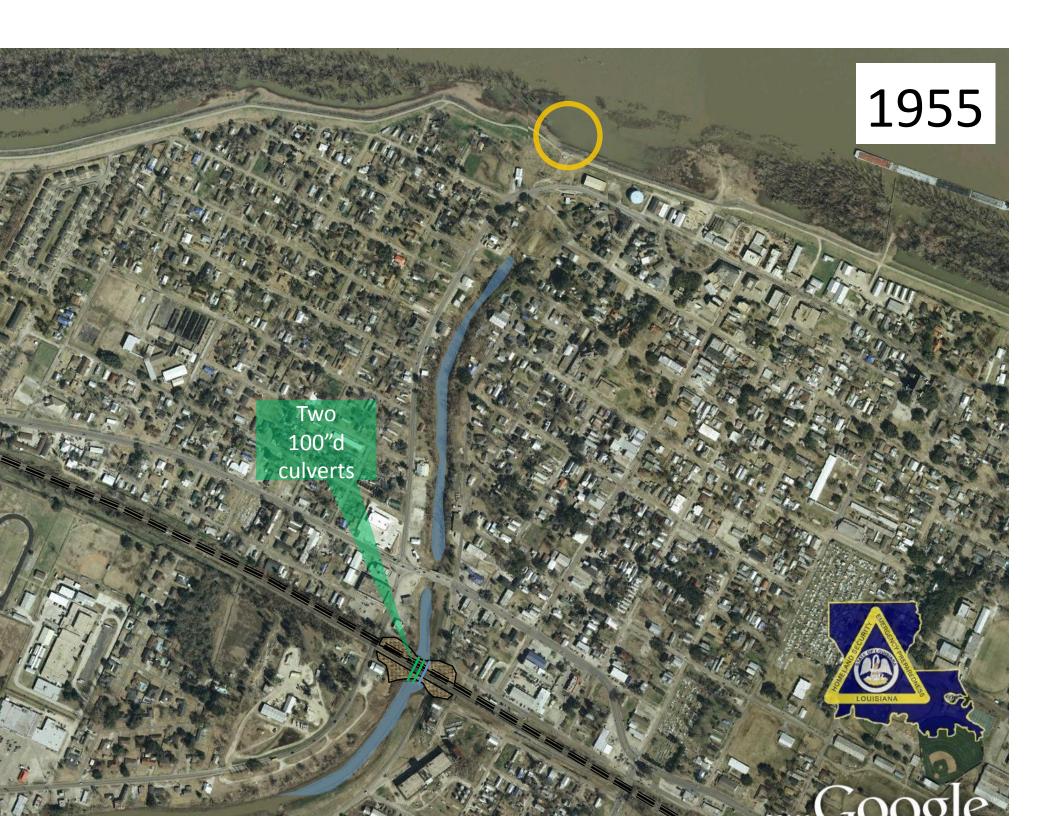


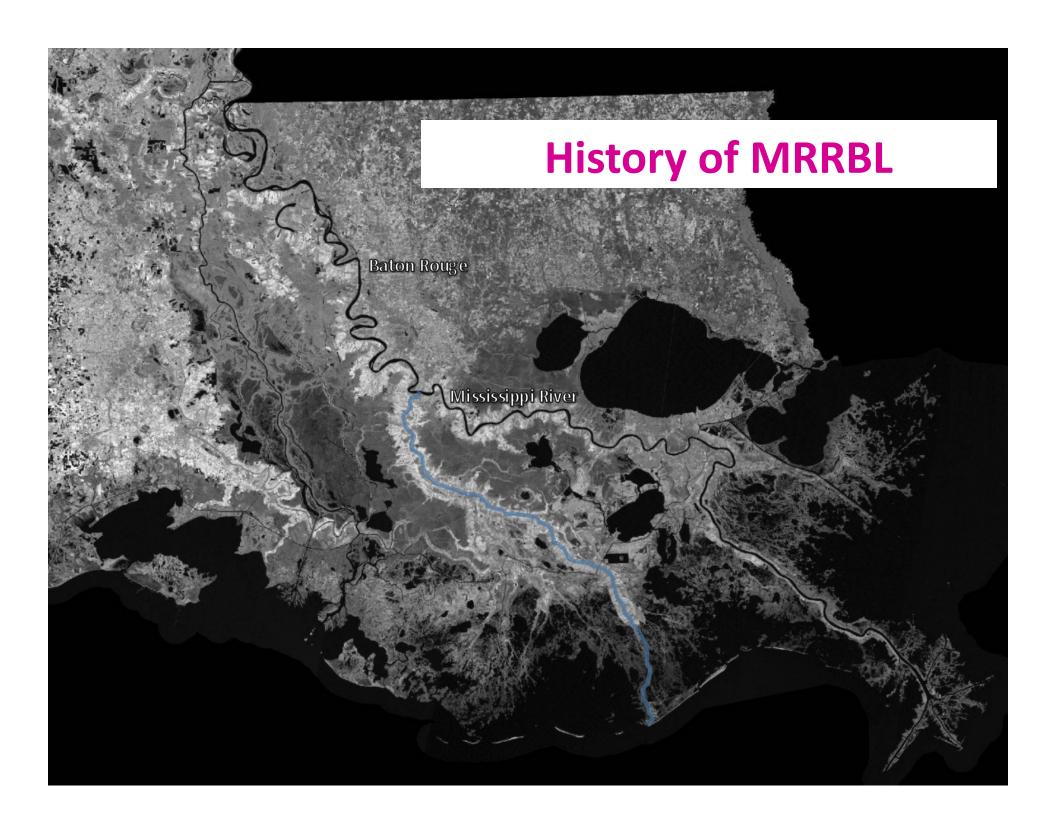












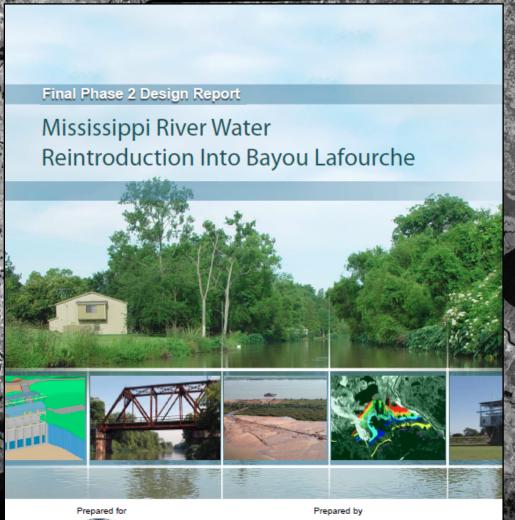
- <u>1993</u> conceptual project proposed in the Louisian a Coastal Wetlands Restoration Plan.
- <u>1995</u> EPA and BLFWD developed a more specific proposal included on CWPPRA PPL-5.
- 1996 project is further refined and designated by CWPPRA as Project PBA-20.
- 1997 Coastal Engineering and Environmental Consultants evaluates dredging templates and conveyance through eastern marsh alternatives.
- <u>1998</u> EPA conceptually redesigns the project to indude pumping capacity, a reduction of target flow to 1000 ds, and bank stabilization.

- <u>2001</u> State of Louisiana agrees to fund 50% of cost share for E&D, CWPPRA agrees to proceed with Phase 1.
- November 2005 Phase 1 E&D completed, focusing on conveyance routes and hydraulic capacity. 144 alternatives were developed, evaluated, and reduced to 5 alternatives.
- March 2006 Phase 2 E&D completed, focusing on evaluating 2 additional alternatives and modeling benefits, selecting final alternative (#38), and achieving 30% design level.
- <u>August 2006</u> CWPPRA votes to cease funding the project for further project design.

- <u>September 2006</u> State of Louisiana commits to the project and independently fund 100% of the project E&D costs; begins scope and budget negotiations with E&D contractor.
- April 2007 CH2M Hill initiates final E&D.
- <u>August 2007</u> LDNR internally reevaluates dredge template / permits / pump-only diversion structure and develops Early Action Project Path.
- <u>September 2007</u> LDNR enters into Cooperative Endeavor Agreement with BLFWD to purchase property at head of Bayou within the critical infrastructure corridor.
- October 2007 CWPPRA deauthorizes BA-25b.

#### <u>September 2008</u> – HURRICANE GUSTAV MAKES LANDFALL

- November 2008 CPRA and BLFWD enter into a Cooperative Endeavor Agreement for "Phase 1" of the project.
- April 2009 CPRA and BLFWD approve and accept final Plans and Specifications for Phase 1.
- <u>November 2009</u> Construction begins on Phase 1 Project.
- <u>November 2011</u> Substantial Completion of Construction



March 2006

Built on over 12 years of work done by multiple Agencies and Consultants

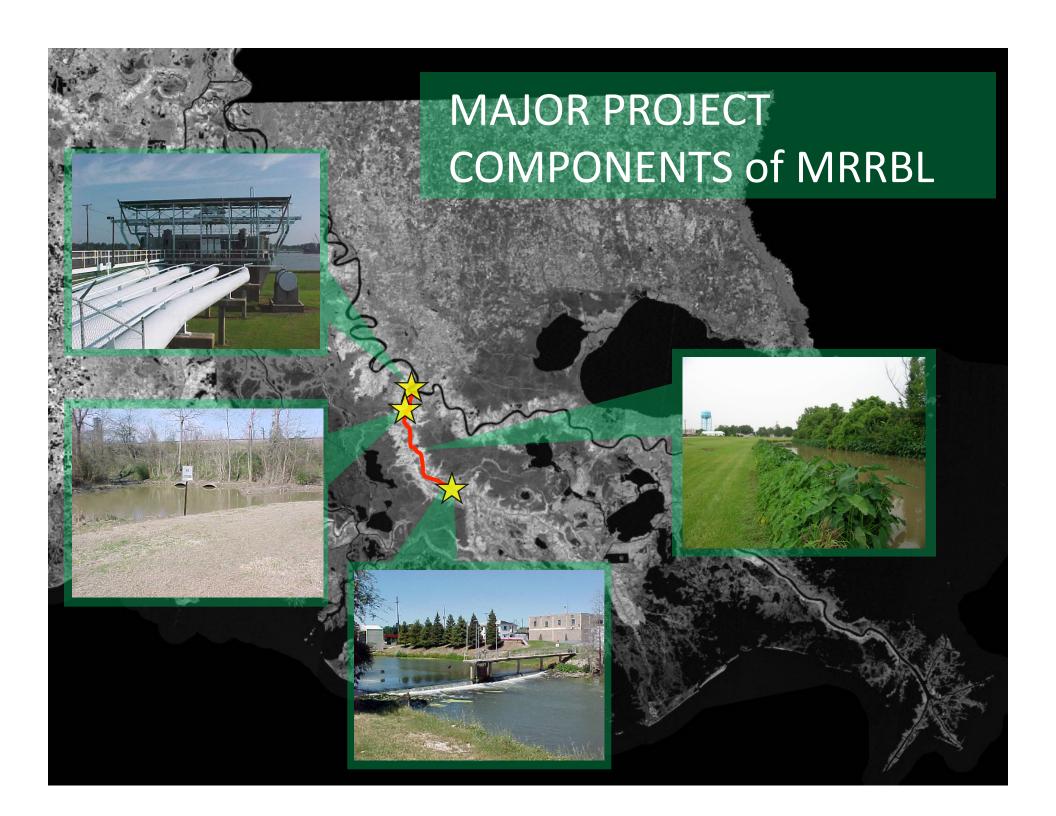
Utilized detailed surveying for the development of a complex hydrodynamic model for the 100-mile length of the bayou

Scrutinized 144 alternatives to solve the Bayou Lafourche problems

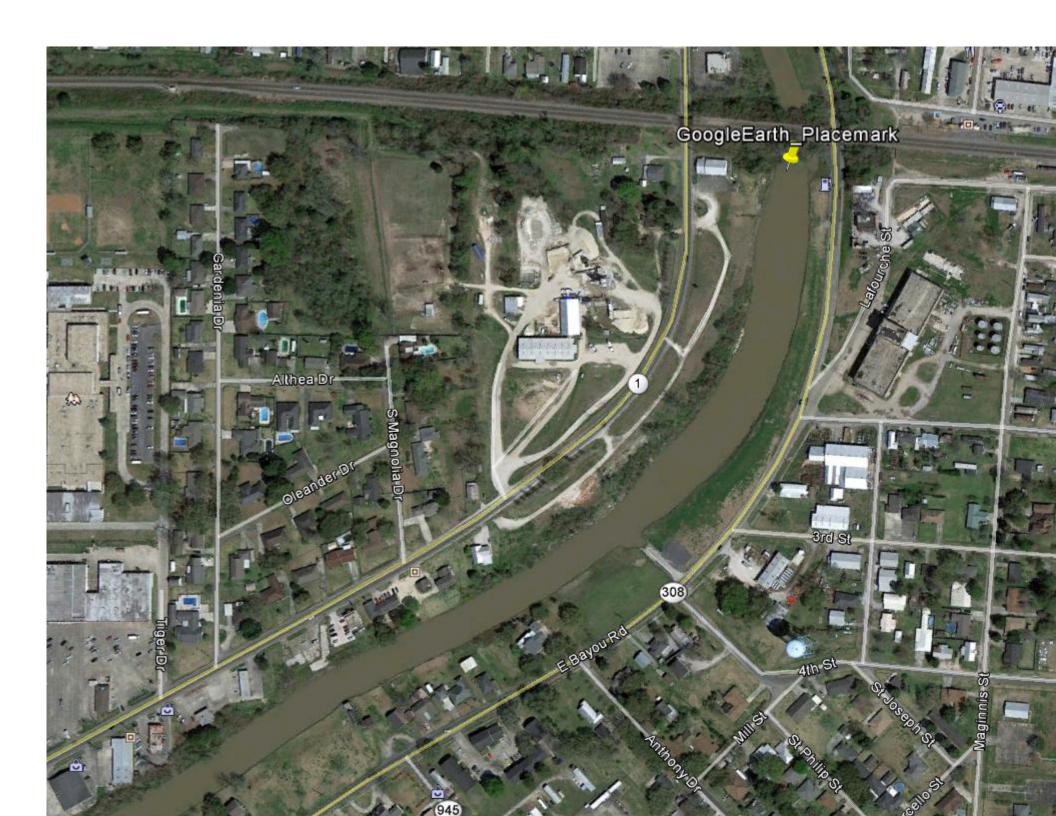
Identified 4 major components to be implemented to achieve 1,000-1,500 cfs into Bayou Lafourche

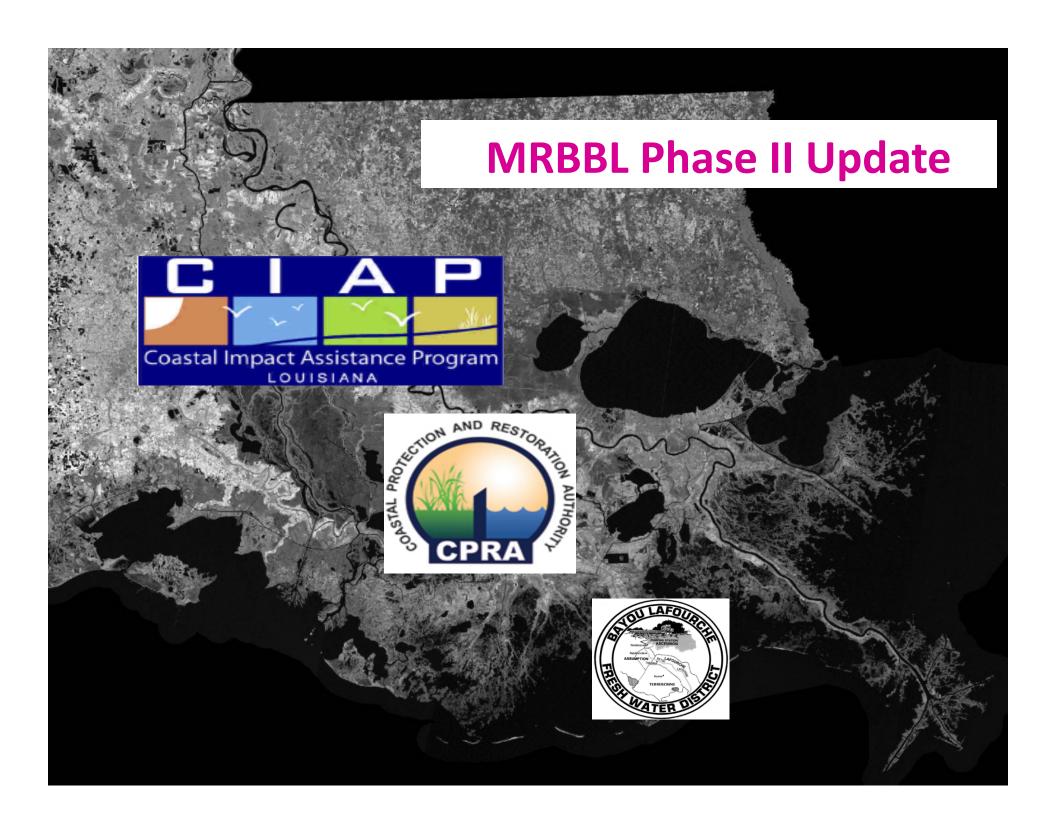


In association with: T. Baker Smith, Inc. FTN Associates, Ltd. Eustis Engineering Company, Inc. Jaymac Consultants C-K Associates, Inc.







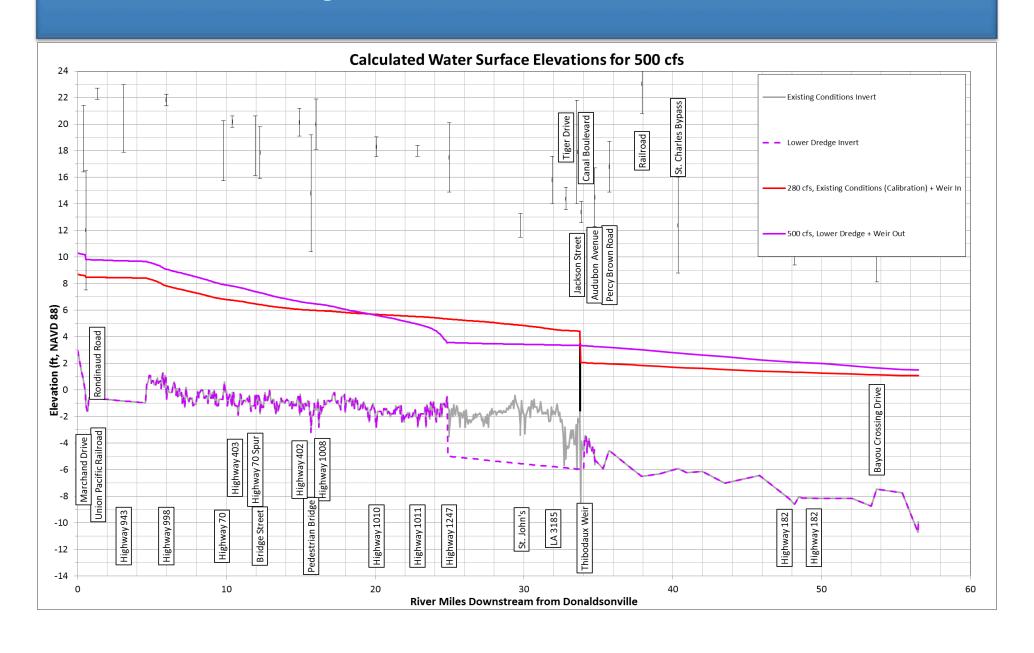


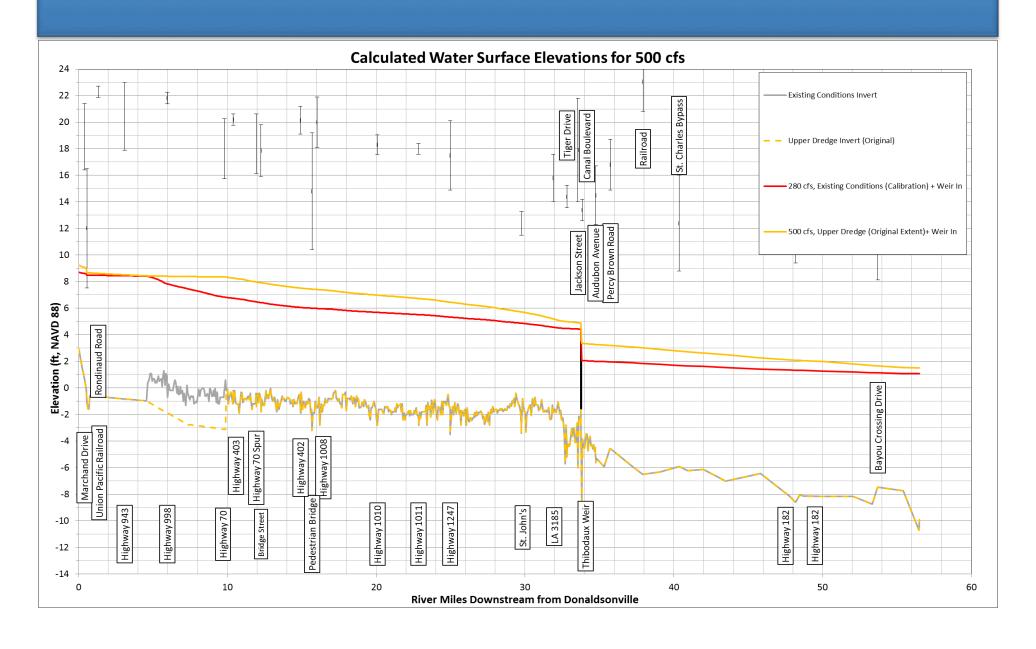
#### MRRBL Phase II Timeline

- Executed Contract for Engineering and Design in April of 2013
- Submitted Data Analysis and Recommendation Report to CPRA in August of 2013
- Submitted Preliminary Design Report to CPRA in July 2014
- Submitted Final Design Report to CPRA in January 2015
- Advertisement for Construction starts TODAY!!!!!!!

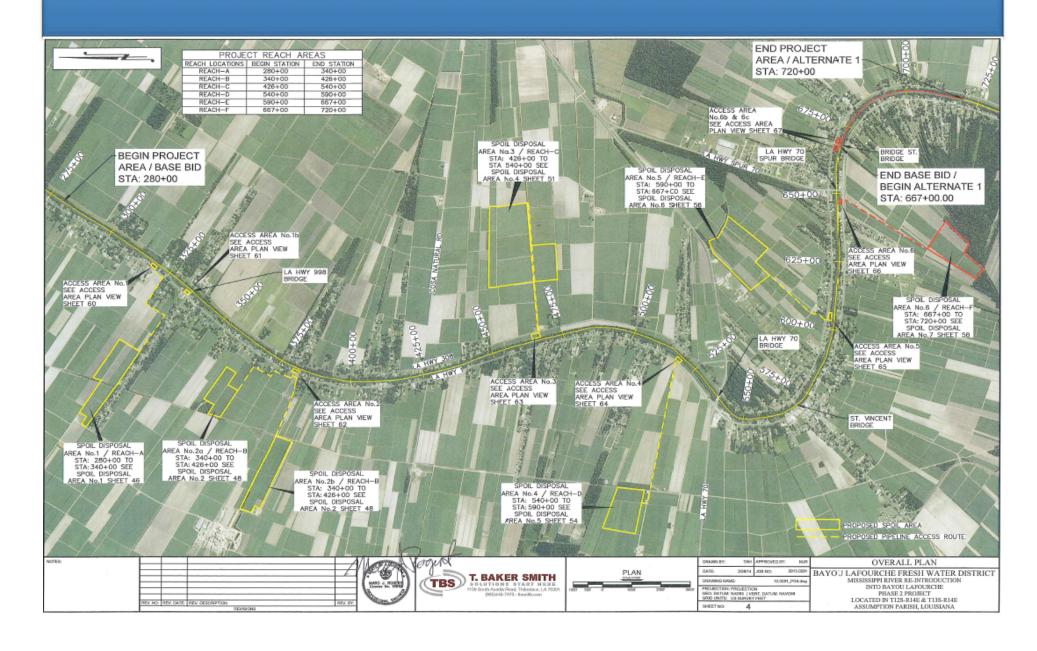








## **Overall Dredge Plan**



# **Seeing the Difference**

**Dredged Section** 

**Un-Dredged Section** 



#### What's Next for MRRBL

- Continuation of Dredging from Napoleonville to Thibodaux (and possibly further)
- Address the Flow Restriction at the UP Railroad in Donaldsonville
- Construction of New Pump Station
- Construction of Water Control Structures
- Removal of the Thibodaux Weir

#### **Get Involved!**

#### Bayou Lafourche Annual Clean Up MARCH 14, 2015





Paddle Bayou Lafourche
APRIL 9-12

## Stay Informed!

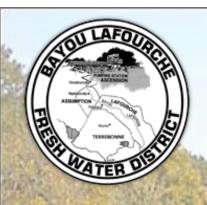
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