2018 STATE OF THE COAST
MISSISSIPPI RIVER SEDIMENT DIVERSION PROGRAM –
THE STATE OF THE PROGRAM

BRAD BARTH
Vision: Building and sustaining land in the Barataria and Breton Basins by reconnecting the river.

Mission: Improve Louisiana's Coastal sustainability through CMP’s five objectives, flood protection, natural processes, coastal habitat, cultural heritage, and a working coast.
COASTAL MASTER PLAN

TOTAL FUNDING: $50B

$25B
RESTORATION

$25B
RISK REDUCTION

FUNDING BY PROJECT TYPE
COASTAL MASTER PLAN

SEDIMENT DELIVERY: $23.8B

21% DIVERSIONS

79% DREDGING
HISTORICAL PERSPECTIVE
LOUISIANA’S LAND LOSS

2,006 SQUARE MILES

LAND LOST  LAND GAINED

SINCE 1932
MISSISSIPPI RIVER
WHY ARE WE IN THIS PREDICAMENT?

GREAT FLOOD OF 1927
WHY ARE WE IN THIS PREDICAMENT?

FLOOD CONTROL ACT OF 1928
HISTORIC LAND LOSS

698 SQUARE MILES OF LAND LOST = 10 WASHINGTON D.C.'s
RECONNECTING THE RIVER

BOLD ACTION IS REQUIRED
SEDIMENT DIVERSIONS

• Build and sustain land
• Increase nutrients and sediment deposition to sustain and maintain wetlands

Minimize diverted water

Maximize diverted sediment
RECONNECTING THE RIVER

MID-BRETON

MID-BARATARIA
RECONNECTING THE RIVER

MID-BRETON

MID-BARATARIA
PROJECTED COSTS AND FUNDING

$1.3B  $696M
FUNDING STREAMS

FUNDING OPTIONS RELATED TO DEEP WATER HORIZON:

$1.2B CRIMINAL FINES/NFWF

$988M CIVIL FINES/RESTORE ACT

$5B NATURAL RESOURCE DAMAGE
START EIS

COASTAL USE (LDNR), NAVIGATION, AND WETLANDS
• Section 10 (USACE Navigation)/404 (USACE Wetlands) and Coastal Use Permit (INDR CUP)
• Permit Public Notice and Comment
• Coastal Use Permit
• Coastal Use Permit Public Act Notice and Comment
• Coastal Use Permit Approval
• Section 10/404 Approval
• Project Implementation and Monitoring

NEPA COMPLIANCE

NATIONAL ENVIRONMENTAL POLICY ACT
• Solicitation of Views (2013)
• Notice of Intent for EIS
• Start EIS
• Public scoping meeting
• Draft EIS
• USACE (HQ/MVD) Approves Draft EIS for Release
• Public Comment on Draft EIS
• Final EIS
• Public Review on Final EIS
• Complete EIS (Record of Decision)

408 APPROVAL (USACE)

REQUEST TO ALTER A FEDERAL PROJECT OR PROJECT WITH FEDERAL INTEREST NO DIRECT PUBLIC INVOLVEMENT
• 408 Request
• 60% Plans and Specifications Review
  - District – PDT
  - Agency Technical Review (ATR)
  - IEPR-SAR Review
• USACE (HQ/MVD) Preliminary 408 Approval
• Record of Decision (408)
• 408 Approval
• 408 Construction Oversight
PERMITS

**COASTAL PERMIT**

Authorization to execute a project in Louisiana’s Coast Zone that is in compliance with the guidelines of the Louisiana Coastal Resources Program

**404/10 PERMIT**

Authorization for the construction of any structure in or over any navigable water and the discharge of fill material into the wetlands

**408 REQUEST**

Authorization for the alteration of a USACE civil works project if the Secretary determines the activity will not be injurious to public interest and will not impair the usefulness of the project
PROJECT BENEFITS

BUILD AND SUSTAIN LAND

REDUCE HURRICANE STORM SURGE RISK

BOOST LOCAL ECONOMY
FACTORS USED TO DETERMINE LOCATION

ACCESS TO SEDIMENT (SAND BAR)

PROXIMITY TO SEDIMENT STARVED BASIN
PROJECT LOCATION

PROPOSED PUMP STATION

PROPOSED DROP STRUCTURE

WILKINSON CANAL PUMP STATION

PROPOSED LA 23 BRIDGE

PROPOSED R.R. ALIGNMENT

MID-BARATARIA SEDIMENT DIVERSION
PROJECT LOCATION

LOCATION
IRONTON, LOUISIANA

TASKS
• Funding E&D, Construction
• Permitting and Construction Approvals
• Environmental (EIS)
• Land Rights
• Engineering and Design
• Operations

PEAK FLOW
75,000

PROJECT FEATURES
• Inlet, Conveyance Structure, Outlet
• Interior Drainage Pump Station
• Highway Modifications
• Rail Road Modifications

MID-BARATARIA SEDIMENT DIVERSION
PROJECT LOCATION

MISSISSIPPI RIVER AND TRIBUTARIES LEVEE

NON-FEDERAL LEVEE

MID-BRETON SEDIMENT DIVERSION
PROJECT LOCATION

WILL’S POINT/BERTRANDVILLE, LA

LOCATION

PEAK FLOW

35,000

TASKS

- Funding E&D, Construction
- Permitting and Construction Approvals
- Environmental (EIS)
- Land Rights
- Engineering and Design
- Operations

PROJECT FEATURES

- Inlet, Conveyance Structure, Outlet
- Interior Drainage Pump Station
- Highway Modifications

MID-BRETON SEDIMENT DIVERSION
IMPLEMENTATION & OPERATIONS
CONVEYANCE CHANNEL

- Diversion Structure
- Guide Levees
- Stability Berm
- Channel Bottom
OPERATIONS PLAN

- **Diverted Sediment Load**
  - **Most Desirable**
  - **Likely Without Optimization**
  - **Least Desirable**

- **Diverted Water Volume**
  - Higher Efficiency
  - Less Water
OPTIMIZATION CONSIDERATIONS

WATER VOLUME

WATER LEVEL

SALINITY DISTRIBUTION

SEDIMENT LOAD

BASIN SIDE
ADAPTIVE MANAGEMENT

Real time monitoring of river side turbidity (supported by frequent/periodical sediment measurements)

Real time monitoring of receiving area salinity, water level, water quality parameters, and natural resources

Forecasting tools to support adaptive management of structures
OPERATIONS STRATEGY

START EIS

- Plan to assess impact to the human environment
- Simple, practical, implementable
- Most opportunistic operations which can avoid, minimize, or if necessary mitigate impact
- Natural Process
- Flexible

FINAL EIS

- Simple, practical, implementable
- Serves as the basic permit conditions for the Section 10/404 Permit
- Natural Process
- Flexible

POST-CONSTRUCTION

- Meets Section 10/404 Permit
- Real Time Monitoring/Forecasting Tools
- Natural Process
- Flexible - Adaptively Manage to Maximize the Sediment/Water Ratio, the Changing Environment, and the Measured Project Performance
SYNERGISTIC APPROACH

DREDGING + DIVERSIONS = SUSTAINABLE LAND GAIN
LAND/WATER DISTRIBUTION

OUTFALL AREA

INITIAL

AFTER 10 YEARS
CURRENT PROJECT ACTIVITY

- EIS UNDERWAY
- MID-BARATARIA
- MID-BRETON
- PUBLIC SCOPING MEETINGS HELD
  - JULY 20, 25, 27
- ENGINEERING AND DESIGN SOLICITATION POSTED
- AECOM SELECTED LEAD ENGINEER AND DESIGNER
- AECOM BEGINS WORK
- CMAR RFQ AD POSTED
CURRENT PROJECT ACTIVITY

STANTEC SELECTED LEAD ENGINEER AND DESIGNER

CPP UPDATED TO REFLECT NOV 2020 PERMIT DECISION

COMPLETED 1ST 408 REVIEW SOIL BORING PLAN

STANTEC BEGINS WORK

2018

JAN  FEB  MAR  APR  MAY  JUN
<table>
<thead>
<tr>
<th>SCOPING MEETINGS</th>
<th>OVER 800 COMMENTS</th>
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<tbody>
<tr>
<td>JULY 20</td>
<td>100</td>
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<tr>
<td>JULY 26</td>
<td>500</td>
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<tr>
<td>JULY 27</td>
<td>40</td>
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SCOPING PERIOD CLOSED SEPTEMBER 5

- Comments from outside of Louisiana: OVER 100
- Individual (form) letters: OVER 500
- "Affiliations" within comments: OVER 40
RECENT ACCOMPLISHMENTS

• Diversion Complex (fastlands)
  - Phase II Cultural Resources Complete

• St. Rosalie Plantation (16PL107)
  - Reviewed by SHPO
  - Not Eligible for Nomination to the National Register of Historic Places
ONGOING WORK / EFFORTS

- Mid-Barataria DEIS – Alternative / Impact / Cumulative Impact Analyses
- Mid-Barataria DEIS – Affected Environment
- Mid-Barataria – Basin Monitoring Plan
- Mid-Barataria CMAR Selection
ONGOING
WORK / EFFORTS

• In-River Monitoring and Sediment Sampling – Breton and Barataria
ONGOING WORK / EFFORTS

Barataria
- Land Survey
- Aerial Drone Survey/Video
- Traffic Counts
ONGOING WORK / EFFORTS

Construction Management at-Risk (CMAR)

- Owner
- Owner’s Advisor
- CMAR
- Design-Builder

Contractual Relationship
- Contract Amendment for GMP or Lump Sum
- Contract Amendment to Approve Construction

Embedded Relationship

DELIVERY MODEL

CMAR
2017 OUTREACH AND ENGAGEMENT

57 MEETINGS

27 PUBLIC OUTREACH EVENTS

18 ADVISORY GROUP MEETINGS

12 GENERAL PRESENTATION BREIFINGS

4,125 PEOPLE REACHED
COASTAL CONNECTIONS

MYRTLE GROVE
IRONTON
EMPIRE
BELLE CHASSE
PORT SULPHUR
VIOLET
JEAN LAFITTE
SAINT BERNARD
CHALMETTE
DAVANT
PORT FOURCHON
COASTAL CONNECTIONS

4,327 MILES TRAVELED

20 COASTAL CONNECTIONS

10 LOCATIONS

512 ATTENDEES
RESOURCES

MISSISSIPPI RIVER SEDIMENT DIVERSIONS WEBPAGE

Educational Brochures • Past Presentations • FAQ’s
THANK YOU

@LOUISIANACPRA

SUBSCRIBE

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