

and g

-Dank

 $\mathbf{T}_{\mathbf{n}}$

Integrated Ecosystem Restoration & Hurricane Protection in Coastal Louisiana: Fiscal Year 2019 Annual Plan

committed to our coast





With the passage of Act 8 of the First Extraordinary Session of 2005 (Act 8), the Louisiana Legislature mandated the integration of hurricane protection activities (e.g., levee construction) and coastal restoration activities (e.g., river diversions or marsh creation). Act 8 also created the Coastal Protection and Restoration Authority Board (CPRA Board) and tasked it with oversight of these activities. The Office of Coastal Protection and Restoration (OCPR) was designated as the implementation arm of the CPRA Board. To avoid confusion, the 2012 Louisiana Legislature changed the name of the state agency from OCPR to the Coastal Protection and Restoration Authority (CPRA).

The CPRA Board, with the assistance of CPRA, is required by Act 523 of the 2009 Regular Legislative Session, amended by Act 604, to produce an Annual Plan that inventories projects, presents implementation schedules for these projects, and identifies funding schedules and budgets. This Fiscal Year (FY) 2019 Annual Plan provides an update on the state's efforts to protect and restore its coast and describes the short-term and long-term results that citizens can expect to see as the state progresses toward a sustainable coast.

Fiscal Year 2019 Annual Plan: Integrated Ecosystem Restoration and Hurricane Protection in Coastal Louisiana. Submitted to the Senate Natural Resources Committee; House Natural Resources and Environment Committee Senate; Transportation, Highways and Public Works Committee House; Transportation, Highways and Public Works Committee; by The Coastal Protection and Restoration Authority of Louisiana. In accordance with R.S. 49:214.5.3 and R.S. 49:214.6.1

Coastal Protection and Restoration Authority Board Members

Johnny Bradberry, Chair Governor's Executive Assistant for Coastal Activities

Tom Harris Secretary, Louisiana Department of Natural Resources Keith Lovell, Designee

Dr. Shawn Wilson Secretary, Louisiana Department of Transportation and Development Janice Williams, Designee

Jack Montoucet Secretary, Louisiana Department of Wildlife and Fisheries

Dr. Chuck Brown Secretary, Louisiana Department of Environmental Quality

Don Pierson Secretary, Louisiana Department of Economic Development Sherri McConnell. Designee

Mike Strain Commissioner, Louisiana Department of Agriculture and Forestry Brad Spicer, Designee

Jay Dardenne Commissioner, Louisiana Division of Administration Barbara Goodson, Designee

R. King Milling Chair, Governor's Advisory Commission on Coastal Protection, Restoration and Conservation

James Waskom Director, Governor's Office of Homeland Security and Emergency Preparedness Jim Donelon Commissioner, Louisiana Department of Insurance Nedra Hains, Designee

> Calvin Mackie Representative East of the Atchafalaya River

> Jimmy Cantrelle Lafourche Parish President Representative East of the Atchafalaya River

> Vacancy Representative East of the Atchafalaya River

> Windell A. Curole Representative East of the Atchafalaya River

Guy McInnis St. Bernard Parish Representative of East Atchafalaya River

William (Bill) Hidalgo St. Mary Levee District Representative West of the Atchafalaya River

Laurie Cormier Representative West of the Atchafalaya River

Senator Norby Chabert, Ex-officio Designee of Senate President John Alario

Representative Tanner Magee, Ex-officio Designee of Speaker of the House Taylor Barras



This public document is published at a total cost of \$4,532.00. Three hundredfifty copies of this public document were published in this first printing at a cost of \$4,532.00. The total cost of all printings of this document including reprints is \$4,532.00.

This document was published by OTS-Production Support Services, 627 North 4th Street, Baton Rouge, LA 70802 for the Coastal Protection and Restoration Authority of Louisiana as mandated by the Legislature. This material was printed in accordance with standards for printing by state agencies established in R.S. 43:31. Printing of this material was purchased in accordance with the provisions of Title 43 of the Louisiana Revised Statutes.

Coastal Protection and Restoration Authority, 2018. Fiscal Year 2019 Annual Plan: Integrated Ecosystem Restoration and Hurricane Protection in Coastal Louisiana. Coastal Protection and Restoration Authority of Louisiana, Baton Rouge, LA.



Dear Friends.

I am pleased to submit to you the Coastal Protection and Restoration Authority's Integrated Ecosystem Restoration and Hurricane Protection in Coastal Louisiana: Fiscal Year 2019 Annual Plan. In this plan, a three-year revenue and expenditure outlook is provided, and project implementation schedules are identified. In addition, some notable projects completed or in construction are highlighted.

This past year, Louisiana's coastal program created or restored thousands of acres using dredged material for marsh creation projects like Oyster Bayou in Cameron Parish and Bayou Bonfouca in St. Tammany Parish and many other areas in between. In addition, significant sections of Louisiana's barrier island chain were restored, including Elmer's Island and Whiskey Island. Several protection projects were also implemented, including levee enhancements in the Cut-Off/Pointe Aux Chene area, Jean Lafitte, Morgan City, Bayou Boeuf in Lafourche Parish, and the Falgout Canal Road levee in Terrebonne Parish.

Included in this year's Annual Plan are several restoration projects which qualify to utilize settlement funds from the *Deepwater Horizon* oil spill. This money is being used to address injuries to natural resources in Louisiana, to create marsh and living shoreline projects, and to continue the advancement of two major sediment diversion projects. Also noteworthy in FY2019 is the state's first payment under Phase II of the Gulf of Mexico Energy Security Act (GOMESA). GOMESA revenues will largely go to fund hurricane protection projects such as levees, flood gates, pump stations, and surge barriers throughout coastal Louisiana.

Also, this past year, our legislature unanimously approved the third iteration of Louisiana's Coastal Master Plan which identifies the implementation and sequence of a \$50 billion suite of coastal projects over the next 50 years. Although CPRA does not have \$50 billion in the bank, I can assure you that we are working every day, with a tremendous sense of urgency, to identify funds and to develop innovative financing approaches to deliver these projects.

Since 2007, CPRA has dredged 130 million cubic yards to restore or benefit 41,305 acres of land, constructed 60 miles of barrier islands and berms, improved 297 miles of levees, and secured \$20 billion for protection and restoration in 20 parishes. Our achievements have been significant over the last ten years, and there is much more to accomplish.

Under Governor John Bel Edwards' administration, the CPRA and its Board will continue to work for the people of Louisiana who raise their families and make a living on our working coast. They deserve the chance to continue doing so for many generations to come, and we are dedicated to this goal.

Sincerely

Johnny Bradberry Chairman of the Board, Coastal Protection and Restoration Authority

Thirty comments were received on the Draft FY2019 Annual Plan: In response to public comment, please note additions to Section 2: Nonstructural Mitigation and Outreach & Engagement. Also included are the newly approved CWPPRA PPL 27 projects, and minor adjustments to project schedules and expenditures in response to on-the-ground conditions.

> The Water Campus • 150 Terrace Avenue • Baton Rouge, Louisiana 70802 (225) 342-7308 • Fax (225) 342-467 • www.coastal.la.gov An Equal Opportunity Employer

State of Louisiana



Purpose of the Annual Plan

Origin of the Annual Plan

Evolution of the Annual Plan

The Annual Plan presents a spending plan for the upcoming fiscal year, as well as two additional fiscal year cycles. For the upcoming fiscal year, specific projects, funding and implementation schedules are identified. Three years of revenues, expenditures, and projects are overviewed herein. Additional information and projections are included to foster a better understanding of project implementation schedules and funding.

In 2007, in response to Act 8, the State released an Integrated Ecosystem Restoration and Hurricane Protection: Louisiana's Comprehensive Master Plan for a Sustainable Coast (2007 Coastal Master Plan). The 2007 Coastal Master Plan was passed unanimously in the Louisiana Legislature and its primacy was subsequently reaffirmed by Gov. Bobby Jindal in Executive Order BJ2008-7, which directed all state agencies to administer their activities, to the maximum extent possible, in accordance with the 2007 Coastal Master Plan's recommendations.

To accommodate the dynamic nature of coastal processes, Act 8 specifies that the Coastal Master Plan is a living document that will be updated every five years to incorporate new data and planning tools as indicated. To comply with the mandate set forth in Act 8, two updates of the Coastal Master Plan have been submitted to the Louisiana Legislature and unanimously approved, in March 2012 and April 2017.

and budgets.*

Historically, the state's Annual Plans for coastal projects provided: 1) an inventory of projects for which the state planned to expend money and resources for a given fiscal year, and 2) recommendations for allocating Coastal Protection and Restoration Funds to those projects. The FY 2010 Annual Plan was the first plan to address the new integrated planning and prioritization directives specified in Act 8. The FY 2019 Annual Plan fulfills the legislative mandate of Act 8 by presenting CPRA's three-year program for funding and implementing projects during FY 2019-FY 2021.

Additionally, the FY 2019 Annual Plan builds on the process which began in the FY 2010 plan and provides an expanded discussion of CPRA's progress in protecting and restoring the coast. Section 2 provides a summary of some of the progress and accomplishments achieved through FY 2018; Section 3 outlines an implementation plan for FY 2019; Section 4 gives fiscal projections for FY 2019 to 2021; and the Appendices provide detailed information on CPRA projects, programs and initiatives.

*La R.S. 49:214.2(11) defines "integrated coastal protection" as "plans, projects, policies, and programs intended to provide hurricane protection or coastal conservation or restoration, and shall include but not be limited to coastal restoration; coastal protection; infrastructure; storm damage reduction; flood control; water resources development; erosion control measures; marsh management; diversions; saltwater intrusion prevention; wetlands and central wetlands conservation, enhancement, and restoration; barrier island and shoreline stabilization and preservation; coastal passes stabilization and restoration; mitigation; storm surge reduction; or beneficial use projects."

Page intentionally left blank

Act 523 of the 2009 Regular Legislative Session, amended by Act 604, directed the CPRA Board, with the assistance of CPRA, to produce an Annual Plan each year that inventories integrated coastal protection projects, presents implementation schedules for these projects, and identifies funding schedules



Section 1 Executive Sur

Progress to D

FY 2019 Impl More Action,

Projections:

Section 5 Appendices ...

- A. Ongoing Prot
- B. Three-Year Exp
- C. Barrier Island
- D. Caernarvon &
- E. Inventory of N
 - A. Federal Pr
 - B. Projects a
 - C. Restoratio
- F. CPRA FY 2019

Table of Contents

mmary
Date: Results on All Fronts11
ementation Plan: More Projects, More Results
FY 2019 - 2020 - 2021 63
77
ection and Restoration Project Summaries
penditure Projections
Status Report
Davis Pond Operational Plans for 2018
Non-State Projects
rotection Projects
nd Project Concepts in Coastal Parish Master Plans on Partnership Projects
9 Capital Outlay Requests

List of Figures

Section 1 | Executive Summary Figure ES-1: Projected FY 2019 Expenditures by Project Phase

Section 2 | Progress to Date: Results on All Fronts

Map 2-1: Projects Scheduled to be in Construction in FY 2018	26
Map 2-2: Projects Scheduled for Completion in FY 2018	28

Section 3 | FY 2019 Implementation Plan: More Projects, More Action, More Results

Map 3-1: Active State Projects in FY 2019 – Eastern Region	.48
Map 3-2: Active State Projects in FY 2019 – Central Region	.49
Map 3-3: Active State Projects in FY 2019 – Western Region	50
Map 3-4: Projects Scheduled to be in Construction in FY 2019	52
Map 3-5: Projects with Operation, Maintenance and Monitoring Expenditures in FY 2019	53

Section 4 | Projections: FY 2019 - 2020 - 2021

Figure 4-1: Projected FY 2019 Expenditures by Project Phase	72
Figure 4-2: Projected FY 2020 Expenditures by Project Phase	73
Figure 4-3: Projected FY 2021 Expenditures by Project Phase	73

List of Tables

Section 1 | Executive Summary

.5

Table ES-1: Projected Three-Year Revenues (FY 2019 - FY 2) Table ES-2: Projected Three-Year Expenditures (FY 2019 -

Section 2 | Last Year: Refining Our Path Forward

Table 2-1: Projects Scheduled to be in Construction in FY Table 2-2: Projects Scheduled to Complete Construction

Section 3 | FY 2019 Implementation Plan: More Projects, More Action, More Results

Table 3-1: Projects Scheduled to be in Construction in FY Table 3-2: Projected Three-Year Schedules for Active CWP Table 3-3: Projected Three-Year Schedules for Active WRD Table 3-4: Projected Three-Year Schedules for Active State Table 3-5: Projected Three-Year Schedules for Active CDB Table 3-6: Projected Three-Year Schedules for Active HSD Table 3-7: Projected Three-Year Schedules for Active and

Section 4 | Projections: FY 2019 - 2020 - 2021

Table 4-1: Projected Three-Year Revenues (FY 2019 - FY 20 Table 4-2: Projected Three-Year Expenditures (FY 2019 - F Table 4-3: Programmatic Projected Three-Year Expenditur Table 4-4: State Protection and Restoration Projected Thr

2021)	6
FY 2021)	7

/ 2018	27
in FY 2018	29

2019	51
PPRA Projects (FY 2019 - 2021)	54
DA Projects (FY 2019 - 2021)	55
e-Only Projects (FY 2019 - 2021)	56
G Projects (FY 2019 - 2021)	57
RRS Projects (FY 2019 - 2021)	57
Proposed Oil Spill Projects (FY 2019 - 2021)	58

	.68
Y 2021)	69
res (FY 2019 - FY 2021)	70
ee-Year Operating Expenditures (FY 2019 - FY 2021)	.71



Section 1 **Executive Summary**

Accomplishments and Notable Projects

Fiscal Year 2018 include:

•

- open water areas.
- •

Page intentionally left blank



Some accomplishments and notable projects completed or in construction in

Hydrologic Restoration and Vegetative Planting in the Des Allemands Swamp (BA-0034-2): Increasing the health of the 2,400 acres of swamp ecosystem by increasing water flow via gaps cut in the spoil bank, breaching internal impediments, and reestablishing natural channels. Native vegetation will also be planted at the site.

Oyster Bayou Marsh Creation and Terracing (CS-0059): Rebuilding and nourishing 740 acres of marsh in Cameron Parish using sediment dredged three miles offshore and pipelined to the area behind the Gulf Beach Highway and a section of the 8.7 miles of beach and dune restored in 2014.

Rockefeller Refuge Gulf Shoreline Stabilization (ME-0018): Constructing a 2.8 mile rock breakwater along the gulf shoreline of the Rockefeller Wildlife Refuge in Cameron Parish. The shore has been retreating at an average rate of 46 feet per year, causing marsh loss and threatening habitat of the refuge's endangered species, including Whooping Cranes.

Bayou Bonfouca Marsh Creation (PO-0104): Restoring 620 acres of marsh, nourishing 310 additional acres and reestablishing the Lake Pontchartrain shoreline rim that was breached during Hurricane Katrina near Bayou Bonfouca, allowing saltier water to degrade the marsh.

Lost Lake Marsh Creation and Hydrologic Restoration (TE-0072): Restoring the structural framework between Lake Pagie and Bayou Decade, increasing the delivery of fresh water, sediments, and nutrients into 749 acres of marshes north and west of Lost Lake, and constructing a terrace field to reduce fetch in

Cut-Off/Pointe Aux Chene Levee (TE-0078): Refurbishing approximately 2.1 miles of existing levee near the town of Cut Off in Lafourche Parish to a minimum constant crest elevation of 10 feet.

Caillou Lake Headlands (TE-0100): Restoring another Louisiana barrier island. Part of the Caillou Lake Headlands that used to be Isle Derniere, Whiskey Island is being refurbished with sand dredged from offshore to create 172 acres of marsh habitat and 730 acres of dune and beach habitat.

Jean Lafitte Tidal Protection (BA-0075-1): Providing flood protection improvements by raising 15,840 linear feet of existing earthen levee, including approximately 14,000 linear feet of concrete capped, steel sheet pile floodwall, and flood gates. Led by the Lafitte Area Independent Levee District.

Kraemer Bayou Boeuf Levee Lift (BA-0169): Assisting the North Lafourche Conservation, Levee and Drainage District to enhance the 33,000-foot ring levee surrounding the community south of Lac des Allemands by enhancing drainage and clearing woody vegetation encroaching on the levee in preparation for a future levee lift.

1

- Spanish Pass Ridge and Marsh Restoration (BA-0191): Part of the Louisiana Coastal Area Beneficial Use of Dredged Material Program. Sediment routinely dredged from the Mississippi River by the U.S. Army Corps of Engineers (USACE) for channel maintenance is being beneficially used near Venice in Plaguemines Parish to restore 5,000 feet of historic ridge backed by a marsh platform approximately 450 feet wide that will serve as a means to reduce wave energy on the leeward side of the marsh.
- Permanent Canal Closures and Pump Stations (PO-0060): A design-build project of the USACE to reduce storm surge risk to Orleans and Jefferson Parishes by the design and construction of permanent protection and pump stations on three outfall canals that failed following Hurricane Katrina in 2005 at 17th Street, Orleans Avenue, and London Avenue.
- Falgout Canal Road Levee (TE-0063): This Terrebonne Parish project involves the construction of the Reach E levee along Falgout Canal Road. The project supports a larger effort that will provide protection to the Bayou Dularge communities, encompassing over 2,300 homes within a 13,413-acre area, which suffered severe flooding from Hurricanes Gustav and Ike.
- St. Mary Backwater Flooding (TE-0116): As part of the parish master plan to improve the Morgan City levee system to 100-year level of flood protection, the St. Mary Parish Consolidated Gravity Drainage District No. 2 is adding elevation to a half-mile stretch of land beneath the road bed of Highway 70, an important evacuation route that serves as a levee near Lake End Park, and replacing the capacity of two older pump stations with a new one on the bank of Lake Palourde.
- Morgan City/St. Mary Flood Protection (TV-0055): Continuing the advancement of the parish master plan for improvements to the Morgan City levee system, this project is providing flood protection improvements by raising or improving 2.5 miles of the current levee system from Lake End Park to Justa Street in the Morgan City area, reducing the risk of flooding from tropical storm events.
- New Orleans to Venice (BA-0067): The ongoing project consists of 20 areas of work constructing 37 miles of back levees and 29 miles of co-located Mississippi River Levees from St. Jude on the west bank down to the vicinity of Venice, and on the east bank, approximately 16 miles of back levee from Phoenix to Bohemia.
- St. Charles West Bank Hurricane Protection Levee (BA-0085): Constructing a system of levees, drainage structures, and pump stations to provide flood protection to the communities on the West Bank of the Mississippi River in St. Charles Parish.
- HSDRRS Mitigation WBV (BA-0109): The West Bank and Vicinity Hurricane and Storm Damage Risk Reduction System (HSDRRS) mitigation effort is designed to compensate for damages inflicted upon wetland habitats through the construction of the Federal levee system after Hurricane Katrina. The project involves restoring fresh marsh, bottomland hardwood, and swamp habitats in the Barataria Basin, the same hydrologic basin in which the levee-related wetland impacts occurred.
- Cameron-Creole Watershed Grand Bayou Marsh Creation (CS-0054): Restoring and nourishing more than 600 acres of marsh with material dredged from Calcasieu Lake to benefit fish and wildlife resources in the Cameron Prairie National Wildlife Refuge and adjacent brackish marshes.

- floodgates.

Projects

Anticipated

include:

•

- CS-0066 Cameron Meadows Marsh Creation and Terracing
- P0-0170 Violet Canal North Levee Alignment
- TV-0063 Cole's Bayou Marsh Restoration
- ME-0018 Rockefeller Refuge Gulf Shoreline Stabilization
- TE-0078 Cut-Off/Pointe Aux Chene Levee
- BA-0075-1 Jean Lafitte Tidal Protection
- **BA-0109 HSDRRS Mitigation- WBV**
- TE-0072 Lost Lake Marsh Creation and Hydrologic Restoration
- CS-0054 Cameron-Creole Watershed Grand Bayou Marsh Creation
- TE-0116 St Mary Backwater Flooding •
- TE-0064 Morganza to the Gulf
- P0-0057 SELA
- BA-0125 Northwest Turtle Bay Marsh Creation

West Bank and Vicinity (BA-0066): The USACE is working to complete 100-year level of flood protection on the west side of the Mississippi River through rehabilitation or new construction of more than 90 miles of levees and structures as part of the HSDRRS system for greater metropolitan New Orleans.

Morganza to the Gulf (TE-0064): Continuing progress towards 100-year levels of risk reduction measures for the protection of vulnerable communities, businesses, and infrastructure in Terrebonne and parts of Lafourche parishes using levees and t-walls, navigation structures, water control structures, and

SELA (PO-0057): Reducing damages due to rainfall flooding in Orleans and Jefferson parishes through increases in pump station capacity, and improvements in surface and sub-surface drainage features.

Violet Canal North Levee Alignment (PO-0170): Constructing a levee/ floodwall in the vicinity of the Violet Canal to maintain flood protection for the public and provide mutual benefit to the citizens within the territorial jurisdictions of Orleans Levee District and Lake Borgne Basin Levee District.

Projects anticipated to begin or continue construction in Fiscal Year 2019

BA-0067 New Orleans to Venice

- BA-0066 West Bank and Vicinity

The FY 2019 Annual Plan contains budget projections (Tables ES-1 and ES-2) that show projected revenues and the amount of funds that would actually be needed to accomplish the proposed implementation plan over the next three fiscal years. Resources in FY 2019 will be focused on constructing coastal projects that have already been planned and/or designed (Figure ES-1). Funding projections include state budget surplus funds allocated for coastal projects. The implementation plan and funding projections presented in the FY 2019 Annual Plan represent a snapshot in time based on the available funding sources. The state is actively exploring new sources of funding to ensure that the coastal program maintains its current momentum.

New project opportunities may arise if additional funds become available after the approval of the FY 2019 Annual Plan, and conditions may necessitate reprogramming of existing funds to address changes on the ground. If necessary, reprogramming of existing and new funds would occur, with approval from the CPRA, to ensure that limited coastal program funds are allocated in accordance with Master Plan objectives. Such flexibility allows the coastal program to respond effectively to unforeseen events that take place outside the legislatively mandated planning cycle.

We encourage you to join us as we move forward in our efforts to protect and restore coastal Louisiana. The CPRA Board conducts monthly meetings to provide a forum to hear updates and receive public receive comment on work. In addition, many tools are available online to allow greater visibility of our progress and to provide increased access to information. These resources and information about them can be accessed online at <u>www.coastal.la.gov</u>.

Table ES-1: Projected Three-Year Revenues (FY 2019 - FY 2021)

Revenue Sources
CPR Trust Fund Annual Revenue ^{1,2}
CPR Trust Fund Carried Forward
GOMESA ^{1,3}
GOMESA Carried Forward ⁴
DOTD Interagency Transfer ¹
CWPPRA Federal Funds⁵
Surplus '07, '08, '09 Carried Forward
Community Development Block Grants
Capital Outlay Funds (Previously Appropriated)
NRDA Revenues (Deepwater Horizon)
NFWF Revenues (Deepwater Horizon)
RESTORE Revenues (Deepwater Horizon)
LDNR Mitigation Funds ⁶
LDNR Beneficial Use Funds ⁶
LDWF Interagency Transfer ⁷
MOEX Settlement ⁸
OM&M Federal Funds ⁹
LOSCO Funding ¹⁰
Gulf of Mexico Alliance Gulf Star Grant Funding ¹¹
Project Billing ¹²
Capital Outlay Request Submitted for HSDRRS 30-Year Payback
Total Projected Revenue

- 2. Estimate tied to mineral revenue.
- September 2019 (1Q20).
- Represents carry-forward of unexpended funds from prior-year GOMESA payments.
- 5
- 6. Supplemental funding to augment construction of eligible projects (specific projects to be determined at a later date).
- 7. Supplemental funding to augment construction of project ME-0018.
- Represents anticipated balance as of FY 2019 of an initial deposit of \$6.75 million of funds from the MOEX settlement.
- 9.
- 10. Represents reimbursement of expenditures for CPRA (non-DWH) oil spill response activities.
- 11. Represents remaining balance of grant funding received in January 2018 for a pilot monitoring project.
- 12. Represents salary and other work-in-kind reimbursements for work performed on projects in funding programs listed in the table above.

FY 2019	FY 2020	FY 2021	Program Total (FY 2019 - FY 2021)
\$14,379,625	\$13,600,000	\$13,200,000	\$41,179,625
\$15,547,801	TBD	TBD	\$15,547,801
\$70,000,000	\$70,000,000	\$70,000,000	\$210,000,000
\$65,190,150	\$87,219,214	\$49,170,157	\$201,579,522
\$4,000,000	\$4,000,000	\$4,000,000	\$12,000,000
\$78,290,682	\$74,933,437	\$77,266,129	\$230,490,248
\$125,637,238	\$20,037,383	\$12,752,531	\$158,427,152
\$4,912,928	\$692,388	\$0	\$5,605,316
\$9,405,000	\$500,000	TBD	\$9,905,000
\$94,096,811	\$436,533,147	\$342,789,562	\$873,419,519
\$73,479,656	\$133,721,027	\$52,563,957	\$259,764,641
\$45,692,154	\$65,850,280	\$198,274,922	\$309,817,355
\$300,000	\$300,000	\$300,000	\$900,000
\$150,000	\$150,000	\$150,000	\$450,000
\$1,000,000	\$0	\$0	\$1,000,000
\$352,343	\$131,250	\$1,057,030	\$1,540,623
\$27,366,658	\$16,492,809	\$14,455,631	\$58,315,097
\$89,384	\$89,384	\$84,384	\$263,152
\$25,000	\$12,500	\$0	\$37,500
\$23,254,531	\$23,000,000	\$23,000,000	\$69,254,531
\$0	\$98,432,119	\$98,432,119	\$196,864,238
\$653,169,960	\$1,045,694,937	\$957,496,422	\$2,656,361,320

1. Annually recurring revenue source to be spent in accordance with the Louisiana Constitution, specifically State Law Section 214.5.4(E) and the provisions within paragraph (3).

3. GOMESA funds must be disbursed to the applicable states by the end of the federal fiscal year. FY 2019 GOMESA funds are anticipated to be received between April 2019 (4Q19) and

Represents anticipated Federal reimbursement for CWPPRA projects led by CPRA in which the State is initially incurring more than its 15% cost share during project implementation.

Represents anticipated Federal reimbursement for CWPPRA and WRDA OM&M activities led by CPRA in which the State is initially incurring more than its cost share during project implementation.

▶ Table ES-2: Projected Three-Year Expenditures¹ (FY 2019 - FY 2020)

Program / Funding Source	FY 2019	FY 2020	FY 2021	Program Total (FY 2019- FY 2021)
CWPPRA State Expenditures (not including Surplus expenditures) $^{\!\!\!2}$	\$14,268,665	\$15,066,563	\$12,733,871	\$42,069,099
CWPPRA Federal Expenditures ³	\$78,290,682	\$74,933,437	\$77,266,129	\$230,490,248
WRDA Project Expenditures (not including Surplus expenditures)	\$0	\$0	\$0	\$0
Surplus Projects and Program Expenditures	\$125,637,238	\$20,037,383	\$12,752,531	\$158,427,152
Community Development Block Grants	\$4,912,928	\$692,388	\$0	\$5,605,316
HSDRRS 30-Year Payback ^₄	\$0	\$98,432,119	\$98,432,119	\$196,864,238
MOEX Project Expenditures	\$352,343	\$131,250	\$1,057,030	\$1,540,623
Capital Outlay Project Expenditures	\$9,405,000	\$500,000	TBD	\$9,905,000
State-Only Project Expenditures (Non-Surplus)	\$212,953	\$94,146	\$40,003	\$347,102
NRDA Expenditures (Deepwater Horizon)	\$94,096,811	\$436,533,147	\$342,789,562	\$873,419,519
NFWF Expenditures (<i>Deepwater Horizon</i>) (not including Surplus Expenditures)	\$73,479,656	\$133,721,027	\$52,563,957	\$259,764,641
RESTORE Expenditures (<i>Deepwater Horizon</i>) (not including Surplus Expenditures)	\$45,692,154	\$65,850,280	\$198,274,922	\$309,817,355
LDNR Mitigation Expenditures ⁵	\$300,000	\$300,000	\$300,000	\$900,000
LDNR Beneficial Use Expenditures ⁵	\$150,000	\$150,000	\$150,000	\$450,000
LDWF Interagency Transfer Expenditures ⁶	\$1,000,000	\$0	\$0	\$1,000,000
OM&M- State Expenditures (not including Surplus or GOMESA expenditures)	\$10,596,860	\$5,943,935	\$5,297,868	\$21,838,664
OM&M- Federal Expenditures ⁷	\$27,366,658	\$16,492,809	\$14,455,631	\$58,315,097
Gulf of Mexico Alliance Gulf Star Grant Expenditures	\$25,000	\$12,500	\$0	\$37,500
GOMESA Expenditures	\$47,970,936	\$108,049,057	\$72,129,618	\$228,149,611
Operating Costs (see Tables 4-3 and 4-4) ⁸	\$32,192,863	\$35,077,751	\$36,005,417	\$103,276,031
Total Planned Expenditures	\$565,950,746	\$1,012,017,791	\$924,248,658	\$2,502,217,195

Represents proposed expenditures provided that commensurate level of funding is received.

Because CWPPRA projects compete for funding annually, CWPPRA expenditures as presented in Appendix B (which include projected expenditures for approved projects only) do not 2 adequately capture likely CWPPRA expenditures in outlying years. The State's estimated CWPPRA expenditures for FY 2020 - FY 2021 are therefore based on prior years' expenditures.

3 Represents anticipated Federal reimbursement for CWPPRA projects led by CPRA in which the State is initially incurring more than its 15% cost share during project implementation.

Payback is based on current HSDRRS construction schedule; payback will not commence until completion of HSDRRS construction activities. According to current USACE estimates, payback 4 will commence in September 2019 with an estimated annual payment of \$98 million. CPRA has made a request through the Capital Outlay process for this funding.

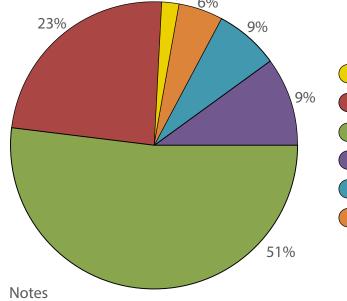
5 Supplemental funding to augment construction of eligible projects (specific projects to be determined at a later date).

Supplemental funding to augment construction of project ME-0018. 6.

Represents anticipated Federal reimbursement for CWPPRA and WRDA OM&M activities led by CPRA in which the State is initially incurring more than its cost share during project implementation

In the event of a declared emergency, CPRA may need to expend Operating Costs in support of the State's disaster response efforts. Up to 75 percent of these expenditures would be reimbursable by FEMA.





• Construction includes Beneficial Use (\$2 million)

OM&M includes BIMP (\$2.9 million) and Repair/Rehabilitation of . Projects (\$1.1 million)

Planning (\$10.9 million) Engineering and Design (\$131.5 million) Construction (\$289 million) Operation, Maintenance and Monitoring (\$54 million) Ongoing Programs and Initiatives (\$48.4 million) Operating Costs (\$32.2 million)

TOTAL Expenditures **\$566 million**

Integrated Ecosystem Restoration & Hurricane Protection in Louisiana: 7 Fiscal Year 2019 Annual Plan



Section 2 Progress to Date: Results on All Fronts

In addition to forecasting revenues and expenditures for the coming fiscal year and beyond, this Annual Plan chronicles some of CPRA's success in accomplishing Coastal Master Plan goals and projects during the past fiscal year. CPRA oversees planning, design, and construction of an increasing number of protection and restoration projects and is making significant strides in ecosystem restoration to counter one of the biggest environmental disasters in our nation's history. Progress toward achieving a sustainable coastal Louisiana has never been more evident. Some of last year's most notable accomplishments include:

To restore some of the dense marsh that once protected areas of Cameron Parish from storm surge, CPRA transported sediment from three miles offshore to create and nourish marsh in an area behind the Gulf Beach Highway. That roadway was the only thing separating the area east of Holly Beach from the Gulf of Mexico until CPRA rebuilt 8.7 miles of beach and dune in 2014. The marsh creation project encompasses four areas totaling 740 acres, including a 135acre expansion of the original footprint. The sediment is held in place by over 50,000 linear feet of earthen containment dikes. Additionally, twenty 450-footlong terraces were constructed in the northeast section of the project to further reduce wave erosion.



Project Highlights

.

Creating a marsh habitat involves more than just filling an area with sediment. This ecosystem will benefit from the elements planned and achieved prior to the pumping of offshore fill material. Tidal creeks and ponds were constructed and retention levees were strategically gapped to achieve a functional marsh that supports estuarine fisheries' access.

Page intentionally left blank

Oyster Bayou Marsh Creation and Terracing (CS-0059)

This once dense marsh suffered from the decline of the beachfront that protected it from the salt water of the adjacent Gulf of Mexico. After having restored the beach, CPRA has now reestablished the marsh platform that can buffer areas to the north from the surge of gulf water pushed inland by tropical storms and hurricanes.

Bayou Bonfouca Marsh Creation (PO-0104)

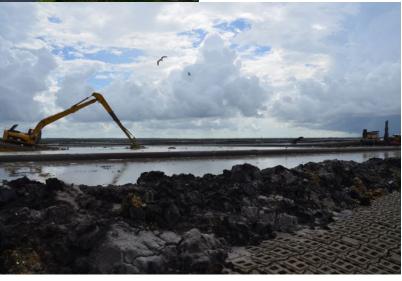
The marsh on the north shore of Lake Pontchartrain between Lacombe and Slidell in St. Tammany Parish was fairly stable before Hurricanes Katrina and Rita ravaged the area in 2005. Since then it has been turning into open water at an increasing rate, mostly through wind-driven erosion and shoreline breaches that allowed salt water to intrude into the fresher interior marshes. This project used sediment dredged from the lake to create 620 acres of marsh and nourish 310 additional acres. Several historic marsh ponds have been restored, and tidal creeks connect these ponds to facilitate water exchange and fisheries access.

Caillou Lake Headlands (TE-0100)

The rebuilding of Louisiana's first line of coastal defense—our chain of barrier islands-has added another link with the continued restoration of Whiskey Island, part of the Caillou Lake Headlands that used to be the famed Isle Derniere. Almost five miles of beach and dune are being created using sand from Ship Shoal in the Gulf of Mexico, along with restoration of the marsh platform along the western half of the island. Restoration of the island provides a buffer to help reduce the full force and effects of wave action, saltwater intrusion, storm surge and tidal currents on associated estuaries and wetlands. It also provides wetland habitat for a diverse number of plant and animal species.



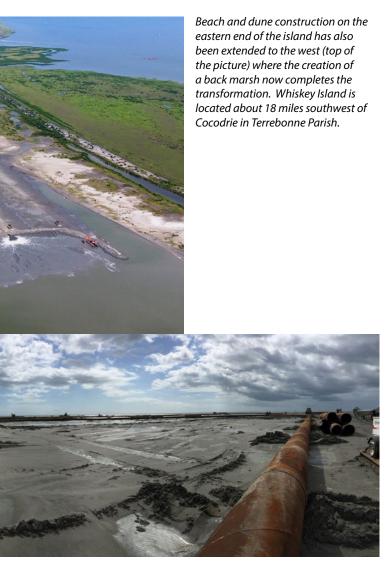
Sediment dredged from Lake Pontchartrain is achieving the project goal of creating 620 acres of marsh habitat and nourishing 310 acres of low salinity brackish marsh in open water areas adjacent to Bayou Bonfouca in the Big Branch Marsh National Wildlife Refuge.



Reestablishing the lake shoreline is important to the resiliency of the project, enabling the return of a healthy and protective marsh ecosystem, as exemplified by the success of a similar marsh creation project completed in 2009 in the adjacent Goose Point area.

Approximately 10.4 million cubic yards of dredged material was pipelined from a borrow area nine miles offshore to restore more than 900 acres of barrier island and marsh habitat. The project was paid for with funds from the Deepwater Horizon Natural Resources Damage Assessment (NRDA) Early Restoration Program.





Jean Lafitte Tidal Protection (BA-0075-1)

Completion of this project is another step in the goal of providing a ring levee system for the historic Jean Lafitte community south of New Orleans. While no storm surge in the past 30 years has been higher than six feet, the new levee system will stand at 7.5 feet with the capacity to be raised higher in the future. This project in the Fisher Basin area included the raising of 15,840 linear feet of existing earthen levee, with approximately 14,000 linear feet of concrete-capped steel sheet pile floodwall, and flood gates. CPRA is currently working on two additional projects with the Lafitte Area Independent Levee District.

Falgout Canal Road Levee (TE-0063)

Located near the community of Theriot in Terrebonne Parish, this levee (also known as the Morganza to the Gulf Reach E Levee) connects to an existing forced drainage levee and a proposed Morganza to the Gulf Hurricane Protection levee, enclosing the communities of Bayou Dularge within the protection system. More than 2,300 homes within that 13,413-acre area suffered severe flooding from Hurricanes Gustav and Ike. The project also expands the zone of beneficial Atchafalaya River influence, reducing salinity and enhancing distribution of fresh water and its associated nutrients.



The need for increased levee protection is substantiated by the fact that the Jean Lafitte area has been damaged by multiple flooding disasters since 2005, including the inundation seen here from Hurricane Isaac in 2012.

The three miles of floodwalls and earthen levee improvements include six swing gates and five roller gates that can be closed during expected high tides and storm surges.

14







Built in two increments, the levee totals more than 4.3 miles in length along Falgout Canal Road between Bayou Dularge Road and the Houma Navigation Canal. Built to a height of 12 feet, it will settle into its design height of 10 feet to achieve a protection level of 25 years.

The marshes above Falgout Canal Road have become hydrologically isolated from their historical flow patterns because of manmade navigational changes. Now the prevailing hydrologic influence is confined to southern tidal flows, resulting in higher salinity and land loss in historically fresh and intermediate marshes.



The LSU Center for River Studies

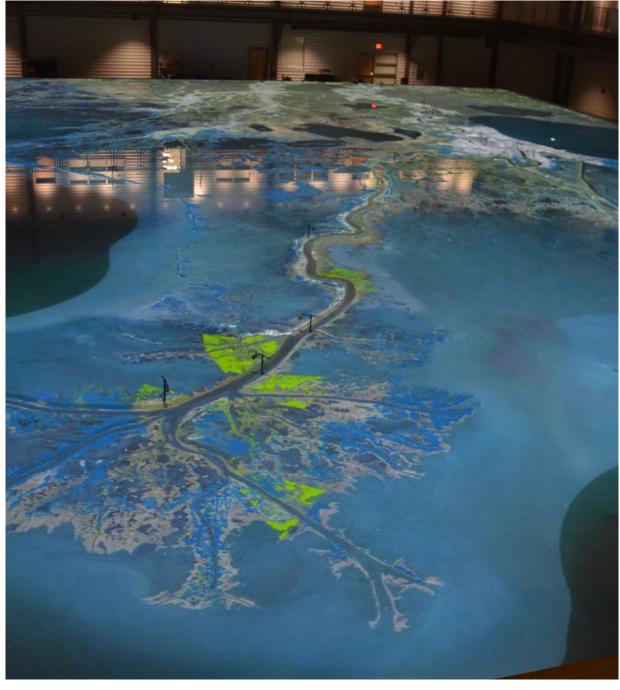
This collaborative partnership between CPRA and LSU showcases Louisiana's working delta, the state's coastal program, and research dedicated to coastal restoration and river management. Within its walls is one of the world's largest physical models of the Mississippi River with the ability to produce qualitative land-building results associated with sediment diversions in the lower river. The Center provides an opportunity for researchers, scientists, and engineers to develop coastal knowledge that can be exported to other coastal communities around the world. It is located on The Water Campus in Baton Rouge, between CPRA headquarters and The Water Institute of the Gulf.



The LSU Center for River Studies is located in Baton Rouge, between CPRA headquarters and The Water Institute of the Gulf. One of the first completed buildings on The Water Campus, this world-class research and engineering center will serve as a focal point for public, private, and non-profit collaboration to develop innovative solutions for the challenges facing coastal communities in Louisiana and all over the world.

In addition to the river model, the LSU Center for River Studies also features a large interactive coastal exhibit area featuring five distinct coastal-related educational themes. The model serves as an important tool for research, and for engagement with coastal stakeholders and visitors.





Overhead equipment projects the landscape onto the 3-dimensional representation of the lower Mississippi River, starting at Donaldsonville and flowing into the Gulf of Mexico. Based on exact parameters of the river's physical and dynamic properties, the model flows water and sediment across a 14,000 square mile section of Southeast Louisiana, Terrebonne, Barataria, Breton Sound, and Pontchartrain Basins.

For decades, sediment diversion projects have been a staple of every coastal plan that has been published. The question is rarely whether we should build them, but more so how and where to build them, how to pay for them, and how to operate them once built. That all has changed over the past five years since Louisiana's 2012 Coastal Master Plan made it an absolute priority to develop and implement river diversion projects that focus on sediment capture and land building, and since the recent Deepwater Horizon Oil Spill settlement has made funding more certain.

CPRA and U.S. Army Corps of Engineers (USACE) have worked together since the 2012 Coastal Master Plan on the Mississippi River Hydrodynamic and Delta Management Study to develop cutting edge technical models to better understand and predict the effects of using river resources for large-scale restoration projects such as Mississippi River sediment diversions on the river as well as its adjacent basins. These models have led to improvements in our understanding of river and estuarine dynamics and to the development of river and basin wide models to support project implementation in Barataria and Breton basins.

The 2012 Coastal Master Plan called for eight sediment diversions along the Mississippi River. Over the past several years, CPRA has conducted in-depth analyses on the Lower Breton (50,000 cfs), Lower Barataria (50,000 cfs), Mid-Breton (5,000 cfs), and Mid-Barataria (50,000 cfs) diversion projects in order to determine which projects should be prioritized for engineering and design and construction. As such, each project was modeled to predict project effects on variables such as land building, salinity, sediment transport, nutrients, and water levels. As part of this analysis, the state also considered innovative marsh creation projects that could be implemented in conjunction with sediment diversion projects in order to enhance sediment capture and build more land.

This modeling effort helped inform CPRA's decision in Fall 2015 to recommend that the Mid-Breton and Mid-Barataria sediment diversion projects move forward to preliminary engineering and design. The purpose of these projects will be to divert sediment-laden water from the Mississippi River to the adjacent basins. By re-establishing a connection between the Mississippi River and the Basin, these projects will restore historic deltaic sediment deposition necessary to build, maintain, and sustain critical coastal lands.

Over the next three years, CPRA will work to optimize operations, formulate the final design, and apply for appropriate construction permits. More specifically, work on the Mid-Barataria Environmental Impact Statement (EIS) began during the spring of 2017, followed by engineering and design work in late 2017. An EIS is a document required by the National Environmental Policy Act (NEPA) to evaluate the impact on human environments for a proposed action. As part of the EIS process, significant public engagement will occur and the document will clearly and transparently describe the environmental effects of the proposed Mid-Barataria Sediment Diversion. This action is the next step in the state's expedited plans to implement projects that will protect and restore coastal Louisiana. The process will include development a draft EIS which will be released for public comment, public hearings on the draft EIS, and the development of a final EIS to address public comments prior to USACE's decision on the permit.

In addition to the formal required engagement in the permitting process, CPRA is committed to providing numerous opportunities for public engagement:

- restoration efforts.

The funds utilized to conduct the studies described and the future engineering and permitting work was made available through criminal settlements associated with the Deepwater Horizon oil spill. The settlements identify approximately \$1.27 billion to be directed to the National Fish and Wildlife Foundation (NFWF) specifically dedicated for barrier island and diversion projects in Louisiana.



Proposed General Locations of the Mid-Barataria and Mid-Breton Diversion Projects



Sediment Diversion Conceptual Design

- Visit with CPRA Staff Members during our recurring visits to coastal Louisiana. For a schedule of upcoming visits, please visit www.coastal.la.gov/calendar
 - Attend a CPRA Board Meeting to engage with CPRA leadership (schedule is posted at www.coastal.la.gov/calendar).
 - Visit www.coastal.la.gov to learn more about this project and other coastal
 - Email us at coastal@la.gov to request a meeting.
 - Follow CPRA on social media for relevant updates.





Proposed Mid-Barataria Sediment Diversion Project Layout

2017 Coastal Master Plan Update

Louisiana's Comprehensive Master Plan for a Sustainable Coast was unanimously adopted by the Louisiana Legislature in April 2017. The Coastal Master Plan is the vehicle by which the CPRA articulates a clear statement of priorities to focus development and implementation efforts to achieve comprehensive coastal protection and restoration for the state.

As CPRA carries forth the planning efforts detailed in the 2007 and 2012 Coastal Master Plans, the 2017 plan continues to build on the past and establishes clear priorities for the future through an integrated and comprehensive approach. As with previous plans, the 2017 Coastal Master Plan was developed with worldclass science and engineering expertise and extensive engagement and input from citizens and stakeholders in an effort to focus our resources wisely.

The Coastal Master Plan also provides important information to Louisiana's coastal citizens. Information and tools are available to help Louisiana coastal residents assess their current and future storm-surge flood risk, and recommendations for flood-proofing and home elevation are provided with suggestions that guide actions to reduce future damages and economic losses.

Five key priorities were recognized in the 2017 Coastal Master Plan that place an emphasis on communities, focus on flood risk and resilience, incorporate new project ideas and information, improve upon the models and analysis based on the best available science, and expand partnerships and collaboration. The 2017 plan provides a list of projects that build or maintain land and reduce flood risks that will be studied, planned, designed, constructed, operated, and monitored. CPRA acknowledges the the cost of continued land loss as well as potential effects of protection and restoration project actions on local communities and businesses, and to our regional and national economies.

The 2017 Coastal Master Plan documents and appendices are available to view and/or download at CPRA's website, www.coastal.la.gov

Emphasizing Communities

Coastal restoration and protection goals ultimately intend to support the people who live and work in coastal Louisiana. The 2017 Coastal Master Plan places great emphasis on understanding continued land loss, as well as potential effects of protection and restoration project actions on local communities and businesses, as well as our regional and national economy. That's why we created Appendix B – People in the Landscape – which reviews the 2017 Coastal Master Plan results as they relate to Louisiana's coastal residents. The appendix discusses issues of special relevance to people who live and work in south Louisiana, with a particular emphasis on explaining the implications of rising sea levels.

What's At Stake

If the latest "worst case" sea level rise estimates prove to be accurate, then coastal communities around the world will all face tremendous risks. Louisiana will be no different, especially considering the fact that much of our coast is also experiencing some degree of subsidence. Louisiana has already lost at least 1,900 square miles of land since the 1930s, and we know we will lose more. In fact, our latest predictions show that if we do nothing, we stand to lose in the range of 2,250 to 4,100 additional square miles of land – our homes, our jobs, and our culture at stake.

Taking Action Today For Tomorrow's Good

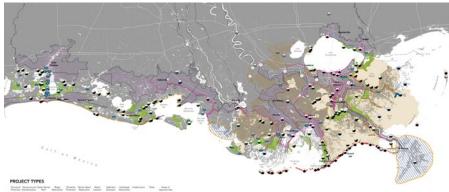
The 2017 Coastal Master Plan focuses on identifying and prioritizing highperforming projects that could be implemented over the next 10 years, while also planning for the next 50. The plan recommends a diversity of projects to build land and reduce storm-surge in order to balance short-term needs with long-term goals. In all, the master plan outlines projects that cost, in present value, approximately \$50 billion. By year 50, these projects provide land building benefits of 800 to 1,200 square miles and reduce economic damage by \$150 billion when compared to no action.

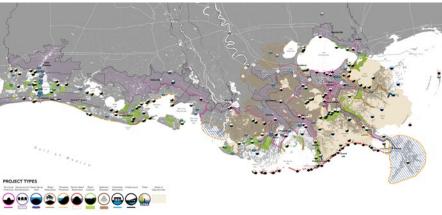


Master Plan Data Viewer

The Master Plan Data Viewer is an interactive tool that enables coastal Louisiana residents to view potential flood risk to their community or property over time as well as to view land loss projections and various socio-economic factors across the coast. It also provides updated information on the implementation of projects in order that citizens can be aware of our coastal program progress. The Master Plan Data Viewer encourages resilience awareness and promotes access to resources that can help communities reduce their storm-surge flood risk.

Access the Master Plan Data Viewer at http://cims.coastal.louisiana.gov/masterplan/





What The Plan Delivers

Coastal program investments will not only provide direct restoration and risk reduction benefits, but will also provide tremendous economic development opportunities for Louisiana and its residents. The unprecedented investment in coastal restoration and protection will continue to put Louisiana at the forefront of using science and innovation to plan a sustainable future for our coastal communities and our valuable ecosystem. Louisiana is proactively preparing for a bright future in an ever- changing landscape.

The 2017 Coastal Master Plan identifies more than \$17.7 billion in marsh creation using dredged material, \$5 billion in sediment diversions, and more than \$2 billion in other types of restoration projects that benefit 800 square miles of coast. The plan also identifies \$19 billion in structural and \$6 billion in nonstructural risk reduction projects that would reduce expected annual damages from flooding by \$150 billion over 50 years.



Focusing on Flood Risk Reduction and Resilience

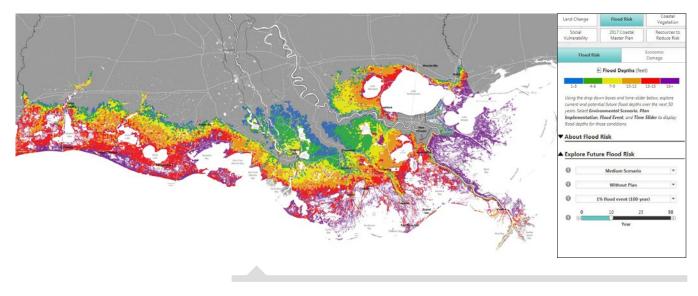
In an effort to use all of the tools available to reduce communities' storm surge flood risk, different types of nonstructural measures and refined policies were explored and suggested to help communities improve their resilience.

The 2017 Coastal Master Plan presents a more detailed path forward for nonstructural project recommendations, implementation procedures, and policy recommendations. In addition, CPRA also expanded outreach through the creation of a new, interactive web-based viewer to help residents better understand their storm-surge flood risk now and in the future.

This innovative online tool provides Louisiana coastal residents with access to the state's best information about how our coast may change in the future, as well as resources to make communities and properties more resilient.

This information can be used by Louisiana state agencies, coastal stakeholders, and community advocates in coastal planning and hazard mitigation efforts. In addition, a variety of resources are provided to enable homeowners and business owners to take steps towards reducing their flood risk. Please be encouraged to visit the online tool to explore your own community through the following link: http://cims.coastal.louisiana.gov/masterplan/

Expanding Partnerships and Collaboration



for site-specific decision making.

Because a successful plan is built on local knowledge, input from a diverse range of coastal stakeholders and extensive dialogue with the public, the many partnerships developed for the 2012 Coastal Master Plan continued for the 2017 Coastal Master Plan. These partnerships included a coastal stakeholder advisory group — the Framework Development Team - as well as focus groups that represented our communities, landowners, recreational interests, and commercial activities (fisheries, navigation, and energy and industry). Throughout the process, these stakeholder and focus groups met to review and discuss key master plan developments, engaged with ongoing sediment diversion planning, and provided valuable feedback and input to help guide the process with regard to their respective interest groups. CPRA also coordinated more closely with key groups such as floodplain managers, hazard mitigation specialists, other state agencies, and NGOs. Furthermore, CPRA reached out to the public in new ways to better share information related to our changing landscape, communities' storm-surge flood risk, and solutions to create a more resilient and sustainable coast.

Learn more about how coastal flood risk impacts communities today and in the future, as well as how to make your community safer and more resilient. The Master Plan Data Viewer displays the results from Louisiana's 2017 Coastal Master Plan and provides resources to reduce storm-surge flood risk. This information is for coastal planning purposes, and is not appropriate

Nonstructural Risk Reduction

Nonstructural risk reduction measures are a critical component of the Flood Risk and Resilience Program and may include non-residential structure floodproofing, residential structure elevation, or residential structure acquisition. In total, 32 project areas were recommended for nonstructural risk reduction in the 2017 Coastal Master Plan. The nonstructural projects include over 26,000 structures recommended for mitigation at a cost of \$6 billion. This includes approximately 1,400 floodproofings, 22,400 elevations, and 2,400 voluntary acquisitions. CPRA is committed to implementing a comprehensive nonstructural program that ensures optimal implementation of the Master Plan. To date, CPRA has funded nonstructural program development as part of its Adaptive Management framework; and CPRA is exploring the capability and capacity of coastal parishes to implement nonstructural projects and related resilience policies, with various local governments as well as through other state and federal programs. In the FY 2019 Annual Plan, CPRA allocates funding in the amount of \$1 million per year for continued development of its nonstructural program, and is exploring options to expand future funding by leveraging opportunities with local governments through other state and federal programs.

Presently, CPRA is partnering with the LSU Economics & Policy Research Group to conduct an economic assessment to quantify the impacts of future flood risk for three state agencies including the Department of Transportation and Development, Department of Education, and Department of Health. The economic assessment will promote greater interagency coordination for flood risk reduction, and result in more in-depth information describing the current and future coastal flood risks each agency faces and assist in longer term planning initiatives.

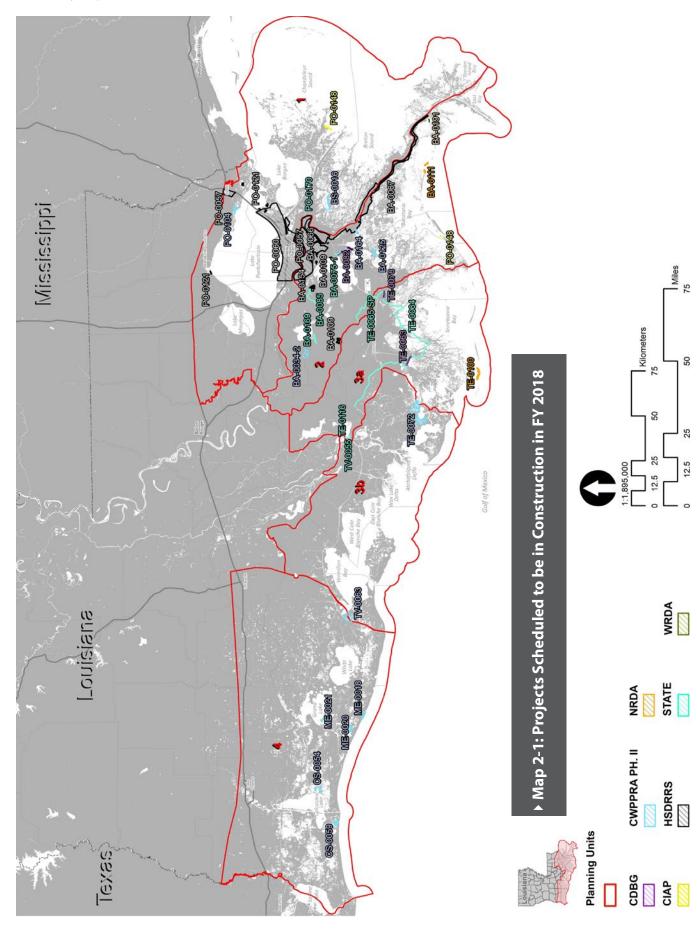
Outreach and Engagement

Outreach and Engagement for the 2017 Master Plan was unprecedented, including 16 community conversations with 900 attendees, 85 general presentations/ briefings, 55 meetings with advisory groups, 3,500 Facebook views of Master Plan Data Viewer, 11,000 Facebook views of Master Plan, four public hearings with 800 attendees and receipt of over 1,300 comments. Of note, beginning in FY 2019, CPRA will dedicate \$25,000 for language translation services and other efforts to expand outreach to communities with language barriers. Additionally, CPRA delivered over 150 invited presentations, and participated as an exhibitor at community events such as Boil for the Bayou, Coastal Day at the Legislature, Terrebonne Coastal Day, New Orleans Neighborhood Summit, and Ocean Commotion.

CPRA is committed to increased communications with the general public. In 2017, CPRA implemented routine media practices which resulted in 190 media responses logged and a 200% increase in press releases issued compared to the previous four years, combined. A weekly electronic-newsletter initiative, 'Coastal Highlights', was initiated and reaches over 3600 email subscribers; a robust weekly social media program has resulted in tripling our Facebook following from 1,200 to 3,600; and each CPRA board meeting is live-streamed and averages 1,500 views. Additionally, CPRA's Quarterly Progress Report (QPR) has been expanded in response to stakeholder comments to include not only quarterly project schedule updates, but also a new project financial section in an effort to increase transparency and allow stakeholders to have better visibility on Annual Plan performance. The QPR is posted on the agency website www.coastal.la.gov and on social media platforms @LouisianaCPRA.

Section 2 Progress to Date: Results on All Fronts

Page intentionally left blank



5

22

WRDA

NRDA STATE

HSDRRS

CWPPRA PH. II

Table 2-1: Projects Scheduled to be in Construction in FY 2018

Project ID	Project Name	Construction Start Date ¹	Construction Finish Date	Total Project Estimate
CWPPRA Pha	se II Projects			
BA-0034-2	Hydrologic Restoration and Vegetative Planting in the Des Allemands Swamp	27-Jun-17	2-Feb-18	\$6,470,448
BA-0164	Bayou Dupont Sediment Delivery - Marsh Creation #3 and Terracing	15-Jan-16	3-Aug-17	\$18,733,494
BS-0016	South lake Lery Shoreline and Marsh Restoration	05-Sep-13	15-Aug-17	\$33,716,987
CS-0054	Cameron-Creole Watershed Grand Bayou Marsh Creation	11-May-17	26-Dec-18	\$24,655,612
CS-0059	Oyster Bayou Marsh Creation and Terracing	30-Jun-16	30-Mar-18	\$30,866,713
ME-0018	Rockefeller Refuge Gulf Shoreline Stabilization	25-May-17	9-Jul-19	\$35,426,478
ME-0020	South Grand Chenier Marsh Creation Project	03-Mar-17	6-Aug-19	\$23,873,346
ME-0021	Grand Lake Shoreline Protection	17-May-16	6-Jul-17	\$10,055,616
PO-0104	Bayou Bonfouca Marsh Creation	28-Apr-16	9-Jan-18	\$29,273,984
TE-0072	Lost Lake Marsh Creation and Hydrologic Restoration	07-Sep-16	18-Jan-19	\$35,876,728
TV-0063	Cole's Bayou Marsh Restoration	26-Feb-18	24-May-19	\$24,930,426
CIAP Projects	5			
PO-0148	Living Shoreline ²	02-Oct-15	7-Aug-17	\$14,300,000
State-Only P	rojects			
BA-0075-1	Jean Lafitte Tidal Protection	19-Feb-14	22-Nov-19	\$29,403,973
BA-0085	St. Charles West Bank Hurricane Protection Levee ³	01-Nov-13	30-Apr-18	\$14,500,000
BA-0169	Kraemer Bayou Boeuf Levee Lift	17-Jun-17	13-Apr-18	\$1,200,000
PO-0170	Violet Canal North Levee Alignment	29-Nov-17	8-Nov-18	\$4,000,000
TE-0064	Morganza to the Gulf	30-Nov-05	1-Jun-20	\$177,003,835
TE-0065-SP	Larose to Golden Meadow - Larose Sheetpile	26-Jan-15	15-Sep-17	\$5,205,702
TE-0116	St. Mary Backwater Flooding	25-May-17	7-Jun-19	\$10,394,609
TV-0055	Morgan City/St. Mary Flood Protection	20-Oct-16	30-Mar-18	\$10,900,000
CDBG Project		·		
BA-0082	Lafitte Area Levee Repair	15-Apr-18	20-Feb-19	\$819,185
TE-0063	Falgout Canal Road Levee	05-Aug-15	30-Mar-18	\$24,803,191
TE-0078	Cut-Off/Pointe Aux Chene Levee	25-Aug-17	15-Jan-20	\$9,714,158
HSDRRS Proj				, ,
BA-0066	West Bank and Vicinity	27-Mar-07	28-Sep-18	\$4,304,525,784
BA-0067	New Orleans to Venice	23-Nov-11	29-Aug-23	\$1,301,523,760
BA-0109	HSDRRS Mitigation- WBV ⁴	27-Feb-15	31-Dec-20	\$126,000,000
BA-0154	Previously Authorized Mitigation WBV ⁴	04-Aug-14	1-Mar-19	\$11,000,000
PO-0057	SELA- Overall	18-Feb-09	12-Oct-20	\$1,170,974,586
PO-0060	Permanent Canal Closures and Pump Stations ⁵	11-Mar-13	28-Feb-18	\$614,800,000
PO-0121	HSDRRS Mitigation- LPV ⁵	23-Jul-15	31-Oct-19	\$85,000,000
	Restoration Projects	25 541 15	51 00015	\$03,000,000
BA-0111	Shell Island West- NRDA	31-Mar-15	7-Dec-17	\$78,486,655
TE-0100	NRDA Caillou Lake Headlands	22-Jul-15	11-Oct-18	\$118,340,766
WRDA Projec		22-Jui-1 J		÷ 1 0,5 4 0,700
BA-0191	Spanish Pass Ridge and Marsh Restoration	15-Jul-16	31-May-18	\$18,111,516
Notes	קארווארו מאז הועשב מהע ואמואר הבאנטומנוטוו	13-301-10	51-Way-10	סו כ, דו ד, סו כ
 Construction s Project part ial Schedule representation Project cost interventation 	tart date is defined as projected date for advertisement of construction bid notice; actual date of mo ly funded with Surplus funds. esents only levee reaches that have received Surplus funding; additional reaches will continue constr cluded in total cost for BA-0066. cluded in total cost for PO-0063.		ng.	

Section 2 | Progress to Date: Results on All Fronts

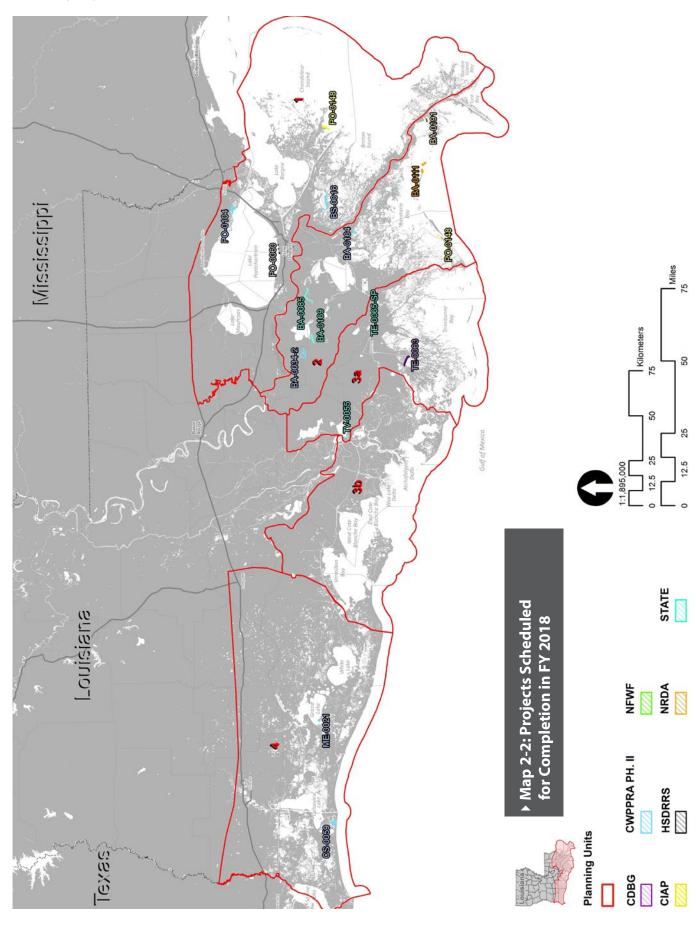


Table 2-2: Projects Scheduled to Complete Construction in FY 2018

Project ID	Project Name	Construction Start Date ¹	Construction Finish Date	Total Project Estimate		
CWPPRA Phase II Projects						
BA-0034-2	Hydrologic Restoration and Vegetative Planting in the Des Allemands Swamp	27-Jun-17	2-Feb-18	\$6,470,448		
BA-0164	Bayou Dupont Sediment Delivery - Marsh Creation #3 and Terracing	15-Jan-16	3-Aug-17	\$18,733,494		
BS-0016	South Lake Lery Shoreline and Marsh Restoration	05-Sep-13	15-Aug-17	\$33,716,987		
CS-0059	Oyster Bayou Marsh Creation and Terracing	30-Jun-16	30-Mar-18	\$30,866,713		
ME-0021	Grand Lake Shoreline Protection	17-May-16	6-Jul-17	\$10,055,616		
PO-0104	Bayou Bonfouca Marsh Creation	28-Apr-16	9-Jan-18	\$29,273,984		
CIAP Projects						
PO-0148	Living Shoreline ²	02-Oct-15	7-Aug-17	\$14,300,000		
State-Only Projects						
BA-0085	St. Charles West Bank Hurricane Protection Levee ³	01-Nov-13	30-Apr-18	\$14,500,000		
BA-0169	Kraemer Bayou Boeuf Levee Lift	17-Jun-17	13-Apr-18	\$1,200,000		
TE-0065-SP	Larose to Golden Meadow - Larose Sheetpile	26-Jan-15	15-Sep-17	\$5,205,702		
TV-0055	Morgan City/St. Mary Flood Protection	20-Oct-16	30-Mar-18	\$10,900,000		
CDBG Projects						
TE-0063	Falgout Canal Road Levee	05-Aug-15	30-Mar-18	\$24,803,191		
HSDRRS Projects						
PO-0060	Permanent Canal Closures and Pump Stations ⁴	11-Mar-13	4-Jun-18	\$614,800,000		
NRDA Early Restoration Projects						
BA-0111	Shell Island West- NRDA	31-Mar-15	7-Dec-17	\$78,486,655		
WRDA Projec	WRDA Projects					
BA-0191	Spanish Pass Ridge and Marsh Restoration	15-Jul-16	31-May-18	\$18,111,516		
Notes						

1. Construction start date is defined as projected date for advertisement of construction bid notice; actual date of mobilization may vary.

2. Project partially funded with Surplus funds.

3. Schedule represents only levee reaches that have received Surplus funding; additional reaches will continue construction with local funding.



Section 3 FY 2019 Implementation Plan: More Projects, More Action, More Results

This section presents an implementation plan that describes the state's proposed investment in coastal restoration and protection during FY 2019 (July 1, 2018, through June 30, 2019). Included are all of the coastal protection and restoration projects in which the state will participate. Projected schedules and budgets are estimates based on the most recent available information.

This implementation plan presents the status of state coastal projects according to the four phases traditionally used to track projects: 1) planning; 2) design; 3) construction; and 4) operation, maintenance, and monitoring. Below are summaries of project status by phase; Appendices A and B provide additional details about the projects. The current status of individual projects is presented by authorizing program in the project schedules in the Coastal Program Details section. Readers are referred to the state's coastal website (www.coastal.la.gov) for additional details about specific projects. Regional maps of projects in planning, design, and/or construction in FY 2019 are presented in Figures 3-1 through 3-3.

Projects in Planning

There are two projects in the planning phase in FY 2019, including one restoration project and one protection project. These projects, together with other nonproject planning initiatives, represent a total state investment of \$10.9 million in FY 2019, and will proceed to design and construction according to their authorizing program as discussed in the Coastal Program Details section.

Projects in Design

.....

Project Status

Summaries

There are 42 restoration projects in design for FY 2019. These projects represent a total state investment of \$131.5 million in FY 2019. The path these projects will take to construction varies according to the authorizing program as described in the Coastal Program Details section.

Projects Under Construction

There are 21 projects that will begin or continue construction in FY 2019, including 10 protection projects and 11 restoration projects. These projects represent a total state investment of \$289 million in FY 2019, and 11 of these projects are projected to complete construction in FY 2019. Table 3-1 presents additional information about projects set for construction in FY 2019, and Figure 3-4 provides a map with the locations of these projects.

Page intentionally left blank

Constructed Projects in Operation, Maintenance, and Monitoring

The CPRA will expend approximately \$54 million (including federal match dollars) in FY 2019 on operation, maintenance, and monitoring (OM&M). OM&M expenditures in FY 2019 will cover the operation and maintenance of 136 projects and monitoring of 105 projects. OM&M expenditures also include approximately \$9 million (in state and federal funds) for monitoring coast-wide conditions using CRMS-Wetlands (http://www.lacoast.gov/crms2/Home.aspx). Figure 3-5 provides a map with locations of all projects with OM&M expenditures in FY 2019. Project-specific OM&M expenditures are presented in Appendix B. The Barrier Island Status Report (Appendix C) is available online for review (www.coastal.la.gov). The Operating Plans for the Caernarvon and Davis Pond diversions during calendar year 2018 are referenced in Appendix D.

Coastal Program Details

Ongoing Programs and Initiatives

The state operates six ongoing programs. These efforts provide supporting research, financial assistance, additional project benefits or educational support for our protection and restoration program, and are listed in the top portion of Table 4.3 (Section 4).

Adaptive Management

The Coastal Master Plan process recognizes the need to quickly implement large scale projects within an extremely dynamic environment. In so doing we must establish and maintain a robust adaptive management program that will allow us to modify constructed projects and inform the development of future projects.

Future conditions of coastal Louisiana are uncertain, due to the dynamics of riverine and marine processes, storm events, climate change, population growth, economic activity, and ongoing human reliance on the natural resources the coast provides. Managing such a complex system in which the natural and socioeconomic systems are highly integrated is inherently difficult. In addition, deltaic environments are uniquely challenged due to the interdependence and delicate balance of water, land and economic systems and future uncertainties regarding the magnitude and rate of climate change impacts. Adaptive management encourages the integrated and flexible approach to land and water management that considers risk and uncertainty. It promotes solutions that are sustainable even if conditions change by providing a mechanism for robust decision making. Connecting short-term investments with long-term challenges and the selection of action paths that allow for maximum flexibility of future decisions are two of the key concepts of adaptive management. Historically, as human developments evolved in deltas, decisions were made that cannot be easily changed (such as the location of New Orleans). This results in some "path dependency", meaning that future options are limited or constrained by past decisions. However, learning from past decisions and understanding the range of possible future scenarios allows us to avoid these constraints in the future by using adaptation pathways to make decisions that allow for maximum future flexibility. As new techniques and projects for restoration and risk reduction are being developed, there exists an opportunity to learn how the system will respond to the coastal protection and restoration program implementation and to use that learning to improve future program management decisions.

Adaptive management:

- 1. provides a structured process for making decisions over time through active learning;
- 2. enables adjustments in program implementation as new information becomes available; and
- 3. embraces a scientific approach that involves:
 - a. identifying explicit goals and objectives, b. developing and implementing management actions,
 - c. assessing the system's response to the action(s), and then
 - d. using that knowledge to make management decisions.

Adaptive management relies on an accumulation of evidence to support decisions that demand action. It also relies on maintaining flexibility to make management changes when necessary to adjust to changing conditions and a growing knowledge base. Critical to the success of adaptive management are the actions that ensure feedback of information among the various phases of project selection, engineering and design, construction, monitoring, and operations and maintenance. Adaptive management is embodied by building institutional knowledge to continually improve understanding of the system and how management actions can best achieve project and program goals. All phases of project management must be coordinated and must share information, not only to maximize the benefits on a project-by-project basis, but also to carry the information learned from past projects into the development of future projects. A high level of commitment is needed to successfully incorporate adaptive management into ongoing business operations.

An adaptive management approach is generally employed when management decisions are hindered by uncertainties in the system dynamics or system response to management actions. Long-term restoration and protection in Louisiana's dynamic coastal environment must be an ongoing series of management decisions based upon a growing knowledge base of research information, updated measurements of ecosystem responses, and evaluations of degrees of progress in reaching goals and targets. The dynamic coastal environment associated with ongoing land loss, sea-level rise and subsidence as well as the periodic impact of tropical storms and hurricanes makes adaptive management imperative.

The scale and complexity of Louisiana's Coastal Master Plan requires a robust adaptive management strategy to cultivate a growing body of knowledge related to restoration and protection science. Although not formalized, CPRA has been actively practicing adaptive management since its inception. Examples of early improvements in CPRA's program include:

- Assessments and improvements in barrier island project designs based on project performance;
 - Modifying operational regimes for freshwater diversion projects to mimic natural pulsing of the river; and
- Refining the types of projects authorized based on performance and improved understanding of land loss causes.

With the development of the first Coastal Master Plan in 2007, Louisiana moved from a project- and hydrologic basin-centric strategy to a more comprehensive program which demanded the development of robust and systematic decision support tools to assist with selecting portfolios of projects which would collectively address the goals and objectives of the state's coastal protection and restoration program.

CPRA's adaptive management approach balances the urgent need for action and the inherent uncertainty involved in large-scale coastal planning by ensuring new information is utilized in all aspects of the planning and implementation process. Adaptive management is a formalized, structured approach that identifies the pathways and mechanisms by which information is integrated into various activities related to achieving CPRA's mission.

CPRA will continue to build on the decades of research and analysis performed to date, and must move forward to maximize riverine resources even though our science may be imperfect. The projects discussed above are authorized through multiple programs, each of which entails different processes to proceed through implementation. Summaries of coastal programs with active projects are presented below. Detailed projected expenditures are presented in Appendix B by program.

Coastal Wetlands Planning, Protection and Restoration Act (CWPPRA)

CWPPRA was authorized by Congress in 1990 to identify, prepare, and fund construction of coastal wetlands restoration projects. CWPPRA is managed by a Task Force comprised of the state and five federal agencies, including the Environmental Protection Agency (EPA), the U.S. Fish and Wildlife Service (USFWS), the Natural Resources Conservation Service (NRCS), the National Marine Fisheries Service (NMFS), and the USACE. Annually, the CWPPRA Task Force evaluates projects proposed for inclusion in the CWPPRA program and prepares a ranked list of candidate projects annually based on cost-effectiveness, longevity, risk, supporting partnerships, public support, and support of CWPPRA goals. From this ranked list, the Task Force selects a final list of projects, the Priority Project List (PPL), for implementation.

Following project selection, CWPPRA projects proceed through a two-phased implementation process. Phase 1 consists of Engineering and Design, an indepth process by which engineers and biologists further develop and assess project features and effects. After design, these projects will be considered for construction, which begins upon Phase 2 approval by the Task Force. Phase 2, referred to as Construction and Monitoring, involves the actual building and subsequent OM&M of the project. The state will expend funds in FY 2019 on the implementation of 21 CWPPRA Phase 1 projects (engineering and design), 10 CWPPRA Phase 2 projects (construction and monitoring), and one CWPPRA demonstration project.

Examples of active CWPPRA projects include the following:

- East Leeville Marsh Creation and Nourishment (BA-0194) (Phase 1)
- West Fourchon Marsh Creation (TE-0134) (Phase 1)
- Northwest Turtle Bay Marsh Creation (BA-0125) (Phase 2)
- Cole's Bayou Marsh Restoration (TV-0063) (Phase 2)

Project schedules for CWPPRA projects are included in Table 3-2. Additional information about CWPPRA projects is available on the CWPPRA website (www.lacoast.gov). Project-specific CWPPRA expenditures are presented in Appendix B. The federal cost-share for CWPPRA projects is 85 percent of the total project cost, with the state assuming responsibility for the remaining 15 percent of the cost. The state's contribution must include a cash payment of not less than five percent of the total project cost. The remainder of the state's contribution may take the form of lands, easements, or rights-of-way, or any other form of inkind contribution determined to be appropriate by the lead Task Force member. Cost- share agreement conditions for CWPPRA projects vary according to the federal partner.

Schedules for WRDA projects are presented in Table 3-3. Project-specific expenditures for WRDA projects are presented in Appendix B.

State-Only Projects

The Louisiana Legislature allocated \$790 million in state budget surpluses for the years 2007, 2008, and 2009 for coastal protection and restoration activities. The state is utilizing these funds to expedite its coastal program by funding ongoing programs, developing initiatives, and implementing protection and restoration projects. The overwhelming majority of these funds have been allocated to project implementation. Surplus funds have been used to supplement projects that are authorized through one of the other programs described in this section (e.g., Southwest Coastal Louisiana Feasibility Study [LA-0020]) and implement other state-only projects. The state has also begun implementation of other projects without a federal partner using Trust Fund revenues.

The state will expend funds in FY 2019 on six state-only protection projects.

categories:

- 0054]); or

Water Resources Development Act (WRDA)

The state is partnered with the USACE on multiple large-scale protection and restoration projects and studies that have been authorized through past WRDA bills. WRDA refers to any of a set of public laws enacted by Congress to address various aspects of water resources including environmental, structural, navigational, flood protection, and hydrologic issues.

Broadly speaking, state-only projects generally involve one of the following

Expedited construction of components of federal protection projects (e.g., Morganza to the Gulf [TE-0064]);

Feasibility studies for flood protection in areas not currently covered by the existing federal protection network (e.g., South Central Coastal Plan [TV-

Protection and restoration projects not included in one of the other coastal programs that are to be implemented in conjunction with local parishes (e.g., Jean Lafitte Tidal Protection [BA-0075-1], Morgan City/St. Mary Flood Protection [TV-0055]).

A total of \$293.3 million in 2008 and 2009 was allocated to cover LERRDS cost for the Greater New Orleans Hurricane and Storm Damage Risk Reduction System (HSDRRS). Included within this total is \$193.3 million from Act 20 of the 2009 Regular Legislative Session that was approved for Southeast Louisiana Hurricane Protection projects. This includes credits and payments toward the state and levee district match requirements for the estimated \$15 billion HSDRRS work underway. The non-federal cost share of such work is estimated to be \$1.8 billion plus applicable interest. Under the plan, these funds may be utilized to advance planning, design, and construction of hurricane protection and flood control projects in southeast Louisiana.

These investments will match local and federal funds while improving the protection of our most vulnerable communities consistent with the Master Plan. These funds are projected to be expended in their entirety by the end of FY 2019.

Project schedules for state-only projects are included in Table 3-4. Project-specific expenditures for state-only projects are presented in Appendix B.

Of the seven active state-only projects, six are funded for construction and will proceed to construction in accordance with their schedules as presented in Table 3-4. The remaining project is funded for feasibility and would only proceed to design upon receipt of further authorization through another coastal funding program.

Community Development Block Grants (CDBG)

Louisiana received \$1.06 billion from HUD's CDBG program to assist in the recovery from Hurricanes Gustav and Ike. The vast majority of CDBG funds were allocated to the 19 coastal parishes for use in protecting their communities and infrastructure. However, included within the \$1.06 billion was an allocation of \$27.4 million to the Louisiana Office of Community Development-Disaster Recovery Unit (OCD-DRU) for state coastal protection and restoration projects that will help communities recover from the 2008 hurricanes and prepare to withstand future hurricanes with greater resilience. The state, in partnership with local interests, identified potential flood protection and restoration projects that could be implemented with these CDBG funds in all major regions of coastal Louisiana, including floodgate installation; levee construction or improvement to reduce storm surge impacts to coastal communities and critical infrastructure; and shoreline protection to benefit communities and related infrastructure and recreational facilities. HUD subsequently approved nine projects for CDBG funding.

Project schedules for CDBG projects are included in Table 3-5. Project-specific expenditures for CDBG projects are presented in Appendix B.

All active state CDBG projects are funded for construction and will proceed to construction in accordance with their schedules as presented in Table 3-5. State CDBG projects require an agreement with the local sponsor, where the local sponsor is responsible for ownership and OM&M costs after project completion. Project implementation requires submittal of an application to OCD-DRU for final approval and funding. Applicant projects are reviewed by OCD-DRU for consistency with program objectives and criteria. Potential issues that could affect CDBG project implementation include design issues, land rights issues, environmental compliance issues, and permitting issues.

Hurricane and Storm Damage Risk Reduction System

HSDRRS was authorized by PL 109-234, Emergency Supplemental Appropriations Act for Defense, the Global War on Terror, and Hurricane Recovery, 2006, and includes the West Bank and Vicinity project, the Lake Pontchartrain and Vicinity project, the IHNC Lake Borgne Surge Barrier and IHNC Seabrook Complex (each of which is managed separately). Each of these projects is in turn comprised of multiple segments, which have separate design and construction schedules. Schedules for remaining HSDRRS project components are included in Table 3-6 and are fully funded for construction to proceed according to the schedules provided. HSDRRS also covers multiple restoration projects that are currently under development as mitigation for wetland impacts associated with construction of hurricane protection projects.

As the non-federal sponsor along with the local levee authorities and levee districts, the state has contributed to the West Bank and Vicinity and Lake Pontchartrain and Vicinity projects through plans and specifications review, construction inspection assistance, project and program management, and payment of LERRDS costs. According to the USACE, the non-federal sponsor is responsible for the payback of the non-federal cost share (approximately 35 percent) over a 30-year period to begin upon acceptance of the system.

Non-State Projects

Act 545 of the 2008 Legislature mandates that State Annual Plans include descriptions of all projects and programs relating to hurricane protection, restoration, and infrastructure in coastal Louisiana, including federal-only projects, local parish and levee district projects, and those privately funded wetland enhancements and activities that require a Coastal Use Permit. Appendix E contains an inventory of non-state projects identified through outreach to coastal parishes and levee districts to obtain information on local, non-state coastal projects. Appendix E also includes an inventory of proposed local projects as presented in coastal parish Master Plans. These proposed projects represent desired local investment in protection and restoration activities. Appendix E also presents information on federal coastal protection projects for which local parishes or levee districts serve as the local sponsor. Finally, Appendix E presents information on non-state projects that have received State Restoration Partnership grants to support implementation. Adding non-state projects to this inventory will be a priority in future years as the state continues to gather information about non-state coastal protection and restoration efforts.

Deepwater Horizon Oil Spill Restoration Planning

The settlement with BP discussed in Section 2, combined with prior Deepwater Horizon-related settlements, and recoveries, totals \$8.7 billion over 15 years for Louisiana coastal restoration and economic damages. Understanding that each source of oil spill funding is subject to various criteria and public approval processes, the CPRA is looking at oil spill funding sources holistically in an effort to maximize the use of these dollars.

Schedules for projects that will be implemented by CPRA as part of Deepwater Horizon oil spill restoration are presented in Table 3-7. Project-specific expenditures are presented in Appendix B.

Natural Resource Damage Assessment (NRDA) Restoration

The Natural Resource Damage Assessment (NRDA) is the process used by Natural Resource Trustees to develop, on behalf of the public, their claim for natural resource damages against the responsible party or responsible parties for an oil spill. Through that claim, the Trustees seek compensation in the form of restoration for the harm done to natural resources and services. The overall goal of NRDA is to make the environment and public whole by restoring natural resources to their pre-spill conditions, and to provide compensation for the loss of those resources from the date of injury through completion of restoration

NRDA Early Restoration

In April 2011, the Trustees and BP announced an agreement under which BP committed to provide \$1 billion toward the implementation of early restoration projects. The agreement represented an initial step toward fulfilling BP's obligation as a responsible party to fund complete restoration of natural resources. Early restoration provides an opportunity to implement restoration projects prior to the completion of the natural resource damage assessment process.

Louisiana received approximately \$370 million in early restoration funds which have been used for the following projects:

- Lake Hermitage Marsh Creation Project (\$14.4 M)
- Louisiana Oyster Cultch Project (\$15.6 M)
- Louisiana Outer Coast Restoration (\$318 M):
 - Caillou Lake Headlands (Whiskey Island) (\$110 M)
 - Shell Island West (\$101 M)
 - Chenier Ronquille (\$35 M)
 - North Breton Island (\$72 M)
 - (Implemented by Department of the Interior)
- Provide and Enhance Recreational Opportunities (\$22 M)¹

1. Due to site issues that arose during the planning and development of the originally proposed project (i.e., the Louisiana Marine Fisheries Enhancement, Research, and Science Center), these funds will be reallocated to restoration projects intended to provide and enhance recreational opportunities in Louisiana. Specific replacement projects are currently being evaluated and have been presented to the public for review and comment in a draft restoration plan released in December 2017.

Natural Resources Damages under the Oil Pollution Act

In February 2016, the Deepwater Horizon Trustees released the Programmatic Damage Assessment and Restoration Plan and Programmatic Environmental Impact Statement (PDARP/PEIS). The PDARP/PEIS established the framework for utilizing the \$8.8 billion allocated for restoration of natural resource damages, including a minimum of \$5 billion specifically allocated for Louisiana. Further, the PDARP/PEIS proposes an allocation of funds by restoration type and geographic area based on the Trustees' understanding and evaluation of exposure and injury to natural resources and services, as well as an analysis of where restoration associated with the various restoration types would be most appropriate.

Following the PDARP/PEIS, a series of project-specific plans will be developed and released for public review. These plans will propose suites of projects intended to address injuries resulting from the oil spill for public consideration, and will be periodically presented and discussed with the public over the 15-year payment period specified in the settlement.

In January 2017, Louisiana finalized its first post-settlement, project-specific restoration plan, which informed the public about Deepwater Horizon NRDA restoration planning efforts and approved approximately \$22.3 million in engineering and design (E&D) work for six restoration projects. These projects should restore wetlands, coastal, and nearshore habitats; habitat projects on federally managed lands; and birds. The six projects are as follows:

- .
- - Lake Borgne Marsh Creation Project: Increment One (PO-0180)
 - Queen Bess Island Restoration Project (BA-0202)
 - Rabbit Island Restoration Project (CS-0080)
 - •

In December 2017, Louisiana released two additional restoration plans, a projectspecific draft recreational use plan and a draft strategic restoration plan for the restoration of wetlands, coastal, and nearshore habitats in the Barataria Basin, and held a public meeting to discuss both plans during the January 2018 CPRA Board Meeting.

Terrebonne Basin Ridge and Marsh Creation Project: Bayou Terrebonne Increment (TE-0139)

Barataria Basin Ridge and Marsh Creation Project: Spanish Pass Increment (BA-0203)

Shoreline Protection at Jean Lafitte National Historic Park and Preserve (Implemented by Department of the Interior)

Once this work is completed, Louisiana will evaluate the feasibility of these projects and develop a restoration plan for the construction of the projects. If all six projects are feasible, construction is estimated to cost over \$460 million.

Recreational Use Restoration Plan

This Recreational Use Restoration Plan evaluated potential projects to restore for lost recreational use within Louisiana by evaluating alternatives that could compensate for a part of Louisiana's recreational fishing use injury. As such, Louisiana's approach to restoring for lost recreational use in this Restoration Plan emphasized the creation or enhancement of recreational fishing infrastructure, enhanced recreational fishing access or opportunity, and educational and outreach components that promote utilization of the natural resources and encourage conservation and stewardship for them, consistent with the injuries caused by the Deepwater Horizon Oil Spill and fisheries-based objectives.

The Louisiana Trustee Implementation Group proposed moving forward with the following proposed alternatives for recreational use within the "Provide and Enhance Recreational Opportunities" Restoration Type:

- Elmer's Island Recreational Access (\$6.0 M)
- Statewide Artificial Reef Enhancement (\$6.0 M)
- Lake Charles Science Center and Educational Complex (\$7.0 M)
- Pointe-aux-Chenes Island Road Fishing Piers (\$3.0 M)

The total funding proposed is \$22 million.

Draft Strategic Restoration Plan for the Restoration of Wetlands, Coastal, and Nearshore Habitats in the Barataria Basin

For this plan, Louisiana is undertaking a phased restoration planning approach to restore wetlands, coastal, and nearshore habitats in the Barataria Basin. The first phase involves the preparation of a strategic restoration plan for the Barataria Basin. This strategic plan will evaluate restoration approaches and techniques to serve as a preferred alternative for restoring wetlands, coastal, and nearshore habitats in the Barataria Basin. Any project or suite of projects discussed in the strategic plan will be further analyzed in subsequent phased project-specific restoration plans.

BP and Transocean Criminal Settlements - NFWF

In early 2013, a U.S. District Court approved two plea agreements resolving the criminal charges against BP and Transocean related to the Deepwater Horizon disaster. The agreements directed a total of \$2.54 billion to NFWF for natural resources restoration in the Gulf of Mexico. Within five years of settling, NFWF's newly established Gulf Environmental Benefit Fund will receive approximately \$1.27 billion to "create or restore barrier islands off the coast of Louisiana and/ or to implement river diversion projects on the Mississippi and/or Atchafalaya Rivers for the purpose of creating, preserving and restoring coastal habitat."

- Adaptive Management: Louisiana River Diversions and Barrier Islands (\$13.2 M)
- Caminada Beach and Dune Increment II:
- East Timbalier Island: Engineering and Design (\$5.6 M) (subsequently rescoped as Terrebonne Basin Barrier Island and Beach Nourishment)
- •
- Increase Atchafalaya Flow to Terrebonne: Planning (\$4.6 M)

- •
- Mid Breton Sediment Diversion (Engineering and Design) (\$90.6 M)

- Mississippi River Sediment Diversion Program Management (\$16.1 M)

Clean Water Act Penalties

The Clean Water Act (CWA) establishes the basic structure for regulating discharges of pollutants into the waters of the United States and regulating water quality standards for surface waters. The CWA makes it unlawful to discharge any pollutant from a point source into navigable waters, unless a permit is obtained. Violations of the CWA can result in both civil and criminal prosecutions by the federal government. The U.S. Department of Justice (DOJ), on behalf of the EPA, the United States Coast Guard (USCG), or another federal agency, may bring enforcement actions for civil or criminal penalties under the CWA.

- The initial NFWF award funded the following projects:
 - Engineering and Design (\$2.7 M)
 - Construction (\$144.5 M)
 - Mid-Barataria Sediment Diversion: Engineering and Design (\$37.7 M)
 - Lower Mississippi River Sediment Diversions: Planning (\$12.8 M)
- The most recent funding award, \$245 million, is a milestone in advancing implementation of cornerstone projects within the Louisiana Coastal Master Plan and another victory for rehabilitating Louisiana's most valuable asset, our coast.
 - Mid Barataria Sediment Diversion (Remaining Engineering and Design) (\$102.3 M)
 - Increase Atchafalaya Flow to Terrebonne (Engineering and Design) (\$16.4 M)
 - Adaptive Management: Louisiana River Diversions and Barrier Islands Phase II (\$19.6 M)
- The next NFWF grant application cycle begins in March 2018.

RESTORE Act

In June 2012, Congress passed the Resources and Ecosystems Sustainability, Tourist Opportunities, and Revived Economies of the Gulf Coast States Act of 2012 (the RESTORE Act), which dedicates 80 percent of all prospective CWA administrative and civil penalties related to the Deepwater Horizon spill to a Gulf Coast Restoration Trust Fund. The RESTORE Act also outlines a structure by which the funds can be utilized to restore and protect the natural resources, ecosystems, fisheries, marine and wildlife habitats, beaches, coastal wetlands, and economy of the Gulf Coast region.

The RESTORE Act outlines the following framework for allocation of the RESTORE Trust Fund:

- 35 percent equally divided among the five Gulf Coast States for ecological restoration, económic development, and tourism promotion (Direct Component) (Bucket 1);
- 30 percent plus interest managed by the Council for ecosystem restoration under the Comprehensive Plan (Council-Selected Restoration Component) (Bucket 2);
- 30 percent divided among the States according to a formula to implement state expenditure plans, which require approval of the Council (Spill Impact Component) (Bucket 3);
- 2.5 percent plus interest for the Gulf Coast Ecosystem Restoration Science, Observation, Monitoring and Technology Program within the Department of Commerce's National Oceanic and Atmospheric Administration (NOAA Science Program) (Bucket 4); and
- 2.5 percent plus interest allocated in equal shares to the Gulf Coast States for the establishment of Centers of Excellence which will focus on science, technology, and monitoring related to Gulf restoration (Center of Excellence Component) (Bucket 5).

In February 2013, Transocean Deepwater Inc. (Transocean) agreed to pay \$1 billion to resolve federal CWA civil penalties associated with the Deepwater Horizon oil spill. In December 2015, a final judgment was issued against Anadarko Petroleum Corporation (Anadarko) for CWA penalties in the amount of \$159.5 million for its role in the oil spill. Finally, as part of the April 2016 BP consent decree, BP agreed to pay \$5.5 billion for CWA civil penalties. These CWA penalties from Transocean, Anadarko and BP are all subject to the RESTORE Act. Under the RESTORE Act and over a 15 year period, these settlements combined will direct a minimum of approximately \$988.4 million to the State of Louisiana, of which \$876.8 million will be allocated to CPRA for implementation of Master Plan projects.

Direct Component and Spill Impact Component Projects

In order to expend Direct Component or Spill Impact Component funds, CPRA is required to submit a plan describing how it will use those funds. On January 18, 2017, the state's First Amended RESTORE Plan (RESTORE Plan), which describes how the state will use these funds over 15 years, was approved by the CPRA Board for submission to the U.S. Department of Treasury (Treasury) for expenditure of Direct Component funds and the RESTORE Council for expenditure of Spill Impact Component funds.

In March 2017, Louisiana became the first state to have a plan accepted by both Treasury and the RESTORE Council for the expenditure of all of its Direct Component and Spill Impact Component funds from the Transocean, Anadarko Petroleum Corporation and BP Exploration & Production Inc. settlements over a 15 year period. Acceptance of the RESTORE Plan by Treasury and the RESTORE Council is a prerequisite to CPRA submitting grant applications to fund projects under the plan. Under the RESTORE Plan, the state committed to funding two projects and two programs for a total of approximately \$811.9 million:

Council-Selected Restoration Component Projects

In December 2015, the Gulf Coast Ecosystem Restoration Council approved the Initial Funded Priorities List (FPL) which included funding for seven projects in Louisiana totaling approximately \$52 million. The funds allocated by the initial FPL are associated with the Transocean settlement.

- Design) (\$14.2 M)
- and Design) (\$7.3 M)

Two additional projects, Jean Lafitte Canal Backfilling (\$8.7 million; implementation) and Bayou Dularge Ridge, Marsh and Hydrologic Restoration (\$5.2 million; planning) are also located in Louisiana. These two projects, submitted for funding by federal members of the Council, will directly benefit coastal Louisiana.

Although the future funding available for Louisiana under this component is unknown, the Council does anticipate that future iterations of the FPL will include significantly larger projects and project lists that reflect the full amount available to be spent for restoration activities. CPRA anticipates that future requests for FPL funding will include additional funds for future phases of work associated with the Coastal Master Plan projects included in the Initial FPL, as well as requests for funding other projects prioritized by CPRA for RESTORE.

Direct Component (~\$260.4 M)

Calcasieu Ship Channel Salinity Control Measures project (~\$260.4 M)

Spill Impact Component (~\$551.5 M)

Houma Navigation Canal Lock Complex project (~\$366 M)

Adaptive Management Program (~\$60.9 M)

• Parish Matching Program (up to \$100 M)

Contingency funds (~\$24.6 M)

The Coastal Master Plan projects receiving funding include:

Golden Triangle Marsh Creation Project (Engineering and Design) (\$4.3 M)

Mississippi River Reintroduction into Maurepas Swamp (Engineering and

Biloxi Marsh Living Shoreline Project (Engineering and Design) (\$3.2 M)

West Grand Terre Beach Nourishment and Stabilization Project (Engineering

• Lower Mississippi River Management Program (Planning) (\$9.3 M)

RESTORE Act Louisiana Center of Excellence Grants Program

In November 2016 the Louisiana Center of Excellence (COE), the Water Institute of the Gulf, issued a request for proposals to fund research under the first installment of Louisiana's Center of Excellence research program. CPRA will provide over \$4 million under this first installment to the COE to administer and fund researchers contributing knowledge from a variety of fields that will inform and support implementation of the state's Coastal Master Plan.

In June 2017, the RESTORE Act Louisiana Center of Excellence Grants Program announced 13 research projects funded through the first round of a competitive grants process. The two-year grants fund projects that directly relate to the implementation of Louisiana's Coastal Master Plan. Three types of research awards were made - Louisiana-led collaborative awards, research awards, and Louisiana graduate studentship awards. To select the projects, the COE coordinated a peer-review process where three subject matter experts from within Louisiana and from around the country evaluated each proposal. Representatives from CPRA also evaluated how well each proposal applied to advancing the Coastal Master Plan. An External Review Board of independent experts provided funding recommendations based on the evaluations and the quality of the proposals. Nearly \$3 million was awarded to collaborative and research awards, and to graduate studentships. The Center of Excellence Grants Program is a significant opportunity to encourage research that will accelerate scientific progress relevant to implementation of Louisiana's Coastal Master Plan. A summary of awarded projects can be found at http://coastal.la.gov/wp-content/uploads/2017/06/Listof-Awardees.pdf.

Gulf of Mexico Energy Security Act (GOMESA)

The Gulf of Mexico Energy Security Act (GOMESA) provides four Gulf Coast states and their coastal political subdivisions, including Louisiana, with 37.5 percent of qualified federal revenue gained from Outer Continental Shelf leases. Revenue sharing is capped at \$500 million through federal FY 2055, but the revenue sharing established under GOMESA will continue beyond that date. The first payment from Phase II of GOMESA is expected in the Spring of 2018, and although prior projections for GOMESA's maximum potential contribution to Louisiana's coastal program ranged from \$120-\$140 million annually, estimates are now \$60-\$70 million, because the cap was not met.

Coastal parishes will share 20 percent of the total amount received by Louisiana according to a formula that considers inverse distance to the lease site population and coastline length. CPRA receives the remaining 80 percent.

- •
- •
- Associated planning and administrative expenses (capped)

CPRA has been advised that the Phase II revenue sharing cap has not been met this year, and may also not be met in the coming three to five years. Based on this guidance, CPRA has established \$70 million as the annual expected GOMESA income level for the next three years and will reevaluate this decision as new information becomes available.

Because of the importance of this revenue stream and the uncertainty surrounding it, CPRA is partnering with Restore or Retreat to hire a team of economists and financial advisors for a large project which will include a reliable forecast for the GOMESA revenue stream. This information will be helpful for better estimating annual payments of this funding stream for the state and parishes. The results of this forecast analysis are anticipated by June 2018.

CPRA anticipates using GOMESA funds from the FY 2018 and FY 2019 allotments to fund implementation of the following projects (implementation will be led by the local parish or levee district):

- 40 Arpent Canal Levee- Lockport Co. Canal to Butch Hill Station (North Lafourche Levee District)

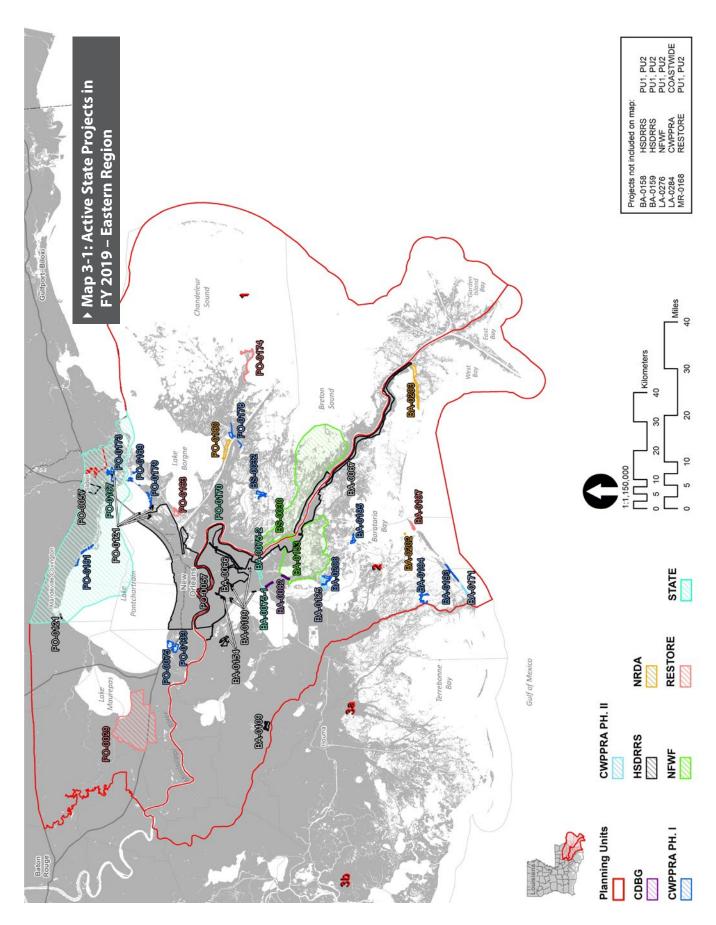
- Grand Isle Beach Stabilization (Grand Isle Independent Levee District)
- West Shore Lake Pontchartrain (Pontchartrain Levee District)
- NF-06a.1 Drainage Canal Relocation ROW Acquisition (Plaguemines Parish)
- Magnolia Ridge Levee Lift and Road (St. Charles Parish)

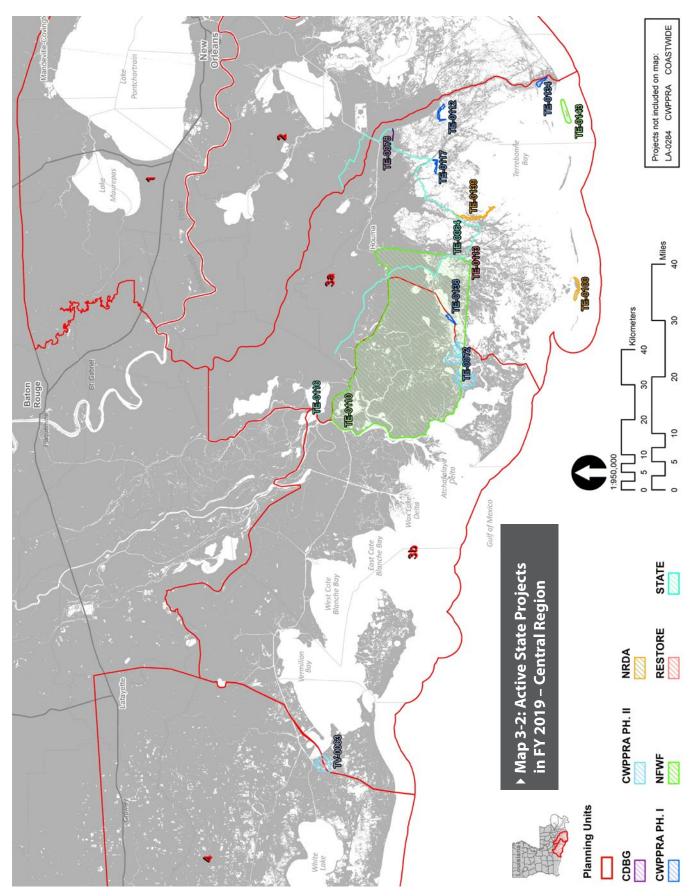
- Vermilion Parish Hydrology & Hydraulics Study (Vermilion Parish)

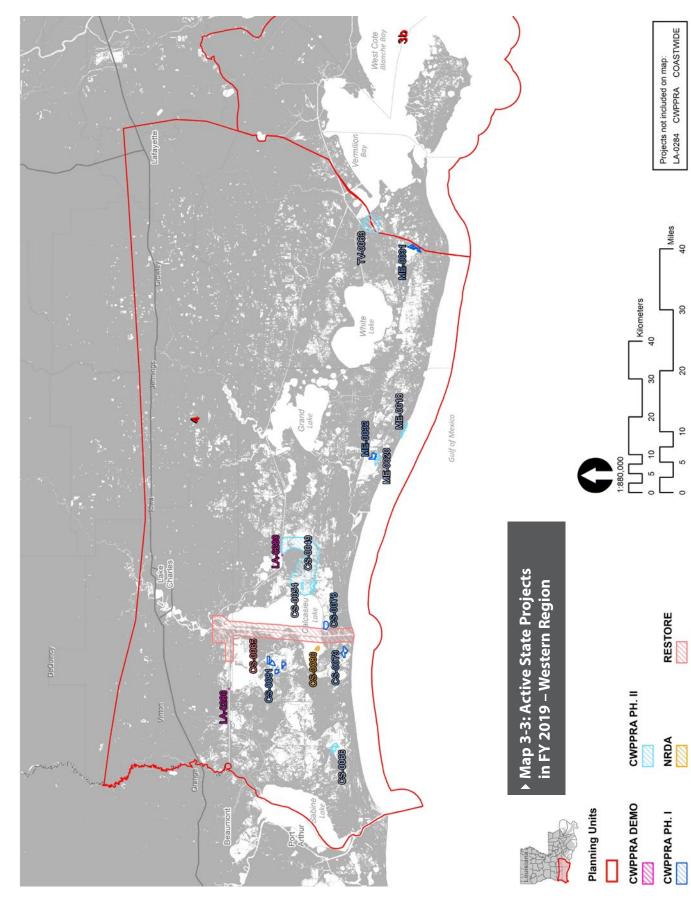
Schedules for these projects will be developed after funding agreements are in place and will be included in future annual plans. Project-specific GOMESA expenditures are presented in Appendix B.

- CPRA GOMESA expenditures are limited by the allowable uses of the CPR Trust Fund; however, parishes may spend funds on any of the federally approved uses:
 - Coastal Protection—conservation, restoration, hurricane protection
 - Mitigation of damage to wildlife or natural resources
 - Implementation of a federally approved conservation management plan
 - Mitigation of effects from OCS activities through onshore infrastructure project

- Hollywood Canal Closure Structure (North Lafourche Levee District)
- Reach L (South Lafourche Levee District)
- Little Bayou Bleu (South Lafourche Levee District)
- Reach L Mitigation (South Lafourche Levee District)
- Rosethorne Basin Phase 1 & 2 (Lafitte Area Independent Levee District)
- St. James Parish 30% Design- Phases 1-3 (St. James Parish)
- Davis Pond Upper Barataria Risk Reduction (Lafourche Basin Levee District)
- St. Tammany Ring Levee (St. Tammany Parish)







> Table 3-1: Projects Scheduled to be in Construction in FY 2019

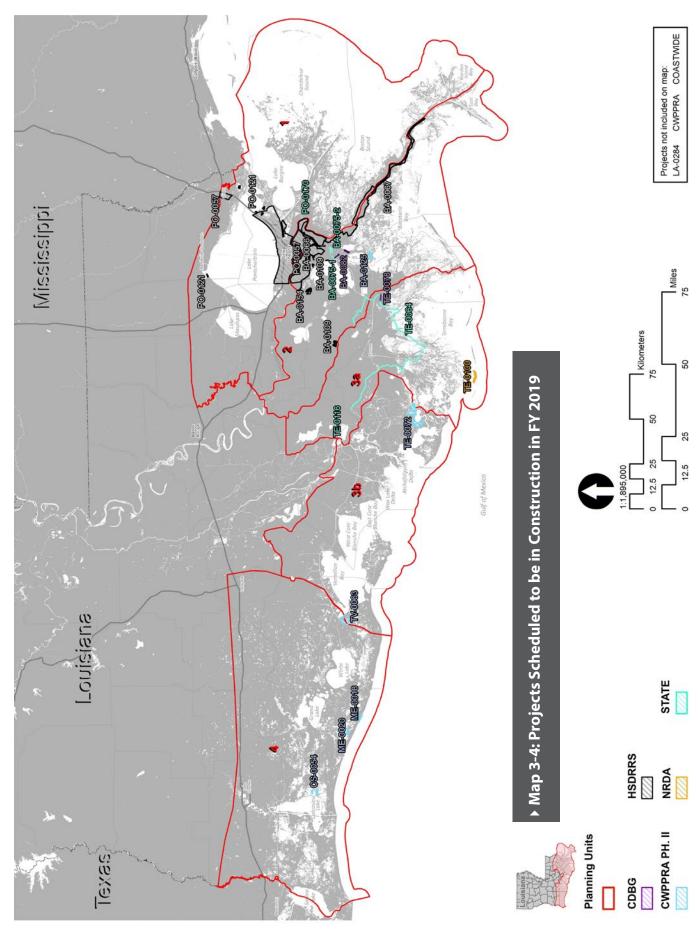
	,						
Project ID	Project Name	Construction Start Date ¹	Construction Finish Date	Total Project Estimate			
CWPPRA Phase II Projects							
BA-0125	Northwest Turtle Bay Marsh Creation	24-Aug-18	5-Feb-20	\$31,083,470			
CS-0054	Cameron-Creole Watershed Grand Bayou Marsh Creation	11-May-17	26-Dec-18	\$24,655,612			
LA-0284	Salvinia Weevil Propagation Facility	01-Jul-18	29-Mar-19	\$5,052,748			
ME-0018	Rockefeller Refuge Gulf Shoreline Stabilization	25-May-17	9-Jul-19	\$35,426,478			
ME-0020	South Grand Chenier Marsh Creation Project	03-Mar-17	6-Aug-19	\$23,873,346			
TE-0072	Lost Lake Marsh Creation and Hydrologic Restoration	07-Sep-16	18-Jan-19	\$35,876,728			
TV-0063	Cole's Bayou Marsh Restoration	26-Feb-18	24-May-19	\$24,930,426			
State-Only Projects ²							
BA-0075-1	Jean Lafitte Tidal Protection	19-Feb-14	22-Nov-19	\$29,403,973			
BA-0075-2	Rosethorne Tidal Protection	31-Oct-18	11-Aug-20	\$22,950,000			
PO-0170	Violet Canal North Levee Alignment	29-Nov-17	8-Nov-18	\$4,000,000			
TE-0064	Morganza to the Gulf	30-Nov-05	1-Jun-20	\$177,003,835			
TE-0116	St. Mary Backwater Flooding	25-May-17	7-Jun-19	\$10,394,609			
CDBG Projects							
BA-0082	Lafitte Area Levee Repair	15-Apr-18	20-Feb-19	\$819,185			
TE-0078	Cut-Off/Pointe Aux Chene Levee	25-Aug-17	15-Jan-20	\$9,714,158			
HSDRRS Projects							
BA-0066	West Bank and Vicinity	27-Mar-07	28-Sep-18	\$4,304,525,784			
BA-0067	New Orleans to Venice	23-Nov-11	29-Aug-23	\$1,301,523,760			
BA-0109	HSDRRS Mitigation- WBV ³	27-Feb-15	31-Dec-20	\$126,000,000			
BA-0154	Previously Authorized Mitigation WBV ³	04-Aug-14	1-Mar-19	\$11,000,000			
PO-0057	SELA- Overall	18-Feb-09	12-Oct-20	\$1,170,974,586			
PO-0121	HSDRRS Mitigation- LPV ⁴	23-Jul-15	31-Oct-19	\$85,000,000			
NRDA Early Restoration Projects							
TE-0100	Caillou Lake Headlands	22-Jul-15	11-Oct-18	\$118,340,766			
Notes							
 Construction start date is defined as projected date for advertisement of construction bid notice; actual date of mobilization may vary. Project partially funded with Surplus funds. Project cost included in total cost for BA-0066. 							

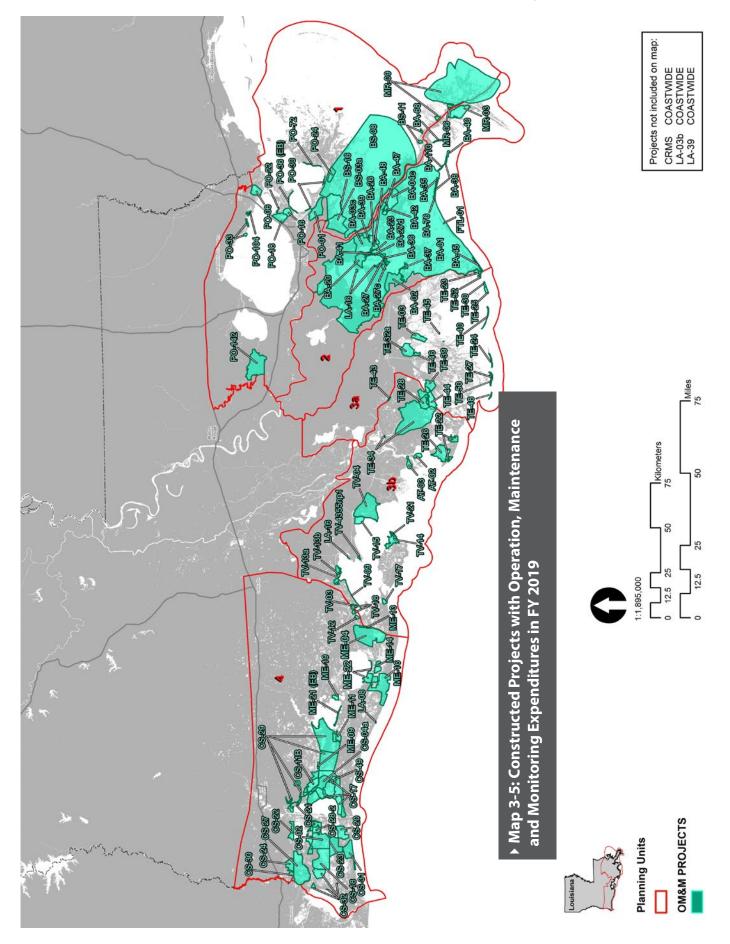
Project cost included in total cost for BA-0066.

Project cost included in total cost for PO-0063. 4

CWPPRA

Section 3 | FY 2019 Implementation Plan





Integrated Ecosystem Restoration & Hurricane Protection in Louisiana: 52 Fiscal Year 2019 Annual Plan

▶ Table 3-2: Projected Three-Year Schedules for Active CWPPRA Projects¹ (FY 2019 - 2021)

		Federal	CY 2	2018	Cal	enda	r Yr 2	019	Cal	enda	r Yr 2	020	CY 2	021
Project ID	Project Name	Sponsor								4FQ			3FQ 2021	4FQ
CWPPRA Pha	ase I Projects		2019	2019	2019	2019	2020	2020	2020	2020	2021	2021	2021	2021
	Caminada Headlands Back Barrier Marsh													
BA-0193	Creation Increment	EPA	D	D	W	W	W	W	W	W	W	W	W	W
BA-0194	East Leeville Marsh Creation and Nourishment	NOAA	D	D	D	D	D	D	W	W	W	W	W	W
BA-0195	Barataria Bay Rim Marsh Creation and Nourishment	NRCS	D	D	D	D	D	D	W	W	W	W	W	W
BA-0206	Northeast Turtle Bay Marsh Creation & Critical Area Shoreline Protection ¹	NRCS	D	D	D	D	D	D	D	D	D	D	W	W
BS-0032	Mid Breton Land Bridge Marsh Creation & Terracing ¹	USFWS	D	D	D	D	D	D	D	D	D	D	W	W
CS-0078	No Name Bayou Marsh Creation & Nourishment	NOAA	D	D	D	D	D	D	W	W	W	W	W	W
CS-0079	Oyster Lake Marsh Creation and Nourishment	NOAA	D	D	D	D	D	D	W	W	W	W	W	W
CS-0081	Sabine Marsh Creation Cycles 6 & 7 ¹	USFWS	D	D	D	D	D	D	D	D	D	D	W	W
ME-0031	Freshwater Bayou Marsh Creation (CWPPRA)	NRCS	D	D	D	D	D	D	W	W	W	W	W	W
ME-0032	South Grand Chenier Marsh Creation - Baker Tract	NRCS	D	D	D	D	D	D	W	W	W	W	W	W
PO-0075	LaBranche East Marsh Creation	NRCS	D	D	W	W	W	W	W	W	W	W	W	W
PO-0133	Labranche Central Marsh Creation	NRCS	D	D	W	W	W	W	W	W	W	W	W	W
PO-0169	New Orleans Landbridge Shoreline Stabilization & Marsh Creation	USFWS	D	D	W	W	W	W	W	W	W	W	W	W
PO-0173	Fritchie Marsh Creation and Terracing	NOAA	D	D	D	D	D	D	W	W	W	W	W	W
PO-0178	Bayou La Loutre Ridge Restoration and Marsh Creation	NRCS	D	D	D	D	D	D	W	W	W	W	W	W
PO-0179	St. Catherine Island Marsh Creation and Shoreline Protection	USFWS	D	D	D	D	D	D	W	W	W	W	W	W
PO-0181	Bayou Cane Marsh Creation ¹	USFWS	D	D	D	D	D	D	D	D	D	D	W	W
TE-0112	North Catfish Lake Marsh Creation	NRCS	D	D	D	D	D	D	W	W	W	W	W	W
TE-0117	Island Road Marsh Creation and Nourishment	NOAA	D	D	D	D	D	D	W	W	W	W	W	W
TE-0134	West Fourchon Marsh Creation	NOAA	D	D	W	W	W	W	W	W	W	W	W	W
TE-0138	Bayou DeCade Ridge and Marsh Creation	NOAA	D	D	D	D	D	D	W	W	W	W	W	W
BA-0173	Bayou Grande Cheniere Marsh and Ridge Restoration	USFWS	W	W	W	W	W	W	W	W	W	W	W	W
BS-0024	Terracing and Marsh Creation South of Big Mar	USFWS	W	W	W	W	W	W	W	W	W	W	W	W
PO-0034	Alligator Bend Marsh Restoration and Shore- line Protection	NRCS	W	W	W	W	W	W	W	W	W	W	W	W
TE-0039-CU2	South Lake Decade Freshwater Introduction - CU2 ²	NRCS												

		F or	امرما	CY 2	018	Cal	enda	r Yr 2	019	Cal	enda	r Yr 2	020	CY 2	021
Project ID	Project Name	3001501		1FQ 2019							4FQ 2020				4FQ 2021
CWPPRA Ph	ase II Projects														
BA-0125	Northwest Turtle Bay Marsh Creation	US	FWS	В	С	С	С	С	С	F	0	0	0	0	0
BA-0171	Caminada Headland Back Barrier Marsh Creation	E	PA	D	D	D	D	С	С	С	С	С	С	F	0
CS-0049	Cameron-Creole Freshwater Introduction	N	RCS	D	D	D	D	С	С	С	С	F	0	0	0
CS-0054	Cameron-Creole Watershed Grand Bayou Marsh Creation	US	FWS	С	F	0	0	0	0	0	0	0	0	0	0
CS-0066	Cameron Meadows Marsh Creation and Terracing	NC	DAA	D	D	D	D	D	D	В	С	С	С	С	С
LA-0284	Salvinia Weevil Propagation Facility	US	FWS	С	С	F	0	0	0	0	0	0	0	0	0
ME-0018	Rockefeller Refuge Gulf Shoreline Stabilization	NC	DAA	С	С	С	С	F	0	0	0	0	0	0	0
ME-0020	South Grand Chenier Marsh Creation Project	US	FWS	С	С	С	С	F	0	0	0	0	0	0	0
TE-0072	Lost Lake Marsh Creation and Hydrologic Restoration	US	FWS	С	С	F	0	0	0	0	0	0	0	0	0
TV-0063	Cole's Bayou Marsh Restoration	NC	DAA	С	С	С	F	0	0	0	0	0	0	0	0
CWPPRA De	emo Projects														
LA-0280	Shoreline Protection, Preservation, and Restoration (SSPR) Panel	NOAA		D	D	D	D	D	с	С	С	С	с	С	С
Legend		P Feasib		ility &	Planr	ning			E	3	Both [Desigr	n & Co	nstruc	tion
	ect currently on hold; schedule to be ated when implementation recommences.	D	Engine	ngineering & Design				=	Construction Comp						
	ect currently on hold; schedule to be ated when implementation recommences.	W	Awaiti Implei			nal Fur	nding	for		I	Program Implementation				n
Re		С	Consti	ructio	n				(Opera Monit		Maint	enano	:e, &

▶ Table 3-3: Projected Three-Year Schedules for Active WRDA Projects (FY 2019 - 2021)

				Federal	CY 2	2018	Cal	endai	r Yr 2	019	Cal	enda	r Yr 2	020	CY 2	2021
Pr	oject ID	Project Name	30011501		1FQ 2019			4FQ 2019							3FQ 2021	
LCA	A Projects															
PO	-0068	LCA Small Diversion at Convent / Blind River	r²	USACE	W	W	W	W	W	W	W	W	W	W	W	W
MR	-0016	Mississippi River Hydrodynamic and Delt Management Study ²	ta	USACE												
Otł	ner WRD	A Projects														
LA-	0020	Southwest Coastal Louisiana Feasibility Study ¹	1,2	USACE	W	W	W	W	W	W	W	W	W	W	W	W
Leg	gend		Р	Feasibi	Feasibility & Planning					В	E	Both Design & Co				tion
ses		ct partially funded by Surplus funds. ct currently on hold; schedule to be	D	Engine	Engineering & Design					F	C	Construction Complete				
References		updated when implementation recommences. W Awaiting Additional Funding for I Proc				Progra	m Imp	oleme	ntatio	'n						
Ref			С	Constru	uctior	ı				С		Operat Nonito		Maint	enanc	e, &

Section 3 | FY 2019 Implementation Plan

> Table 3-4: Projected Three-Year Schedules for Active State-Only Projects (FY 2019 - 2021)

		Fe	Federal 1F		018	Cal	enda	r Yr 2	019	Cal	enda	r Yr 2	020	CY 2	2021
Project ID	Project Name	_				3FQ 2019									
State Surplu	s Projects														
BA-0075-1	Jean Lafitte Tidal Protection	1	N/A	С	С	С	С	С	F						
BA-0075-2	Rosethorne Tidal Protection	1	N/A	D	С	С	С	С	С	С	С	F			
PO-0167	St. Tammany Parish Coastal Protection Study	1	N/A	Р	Ρ	Р	Р	Р							
PO-0170	Violet Canal North Levee Alignment	1	N/A	С	F										
TE-0064	Morganza to the Gulf	U	SACE	С	С	С	С	С	С	С	F				
TE-0116	St. Mary Backwater Flooding	1	N/A	С	С	С	С	F							
TV-0057	Delcambre-Avery Canal (E&D)	1	N/A	W	W	W	W	W	W	W	W	W	W	W	W
PO-0062	West Shore-Lake Pontchartrain, Louisiana Hurricane Protection Project Feasibility Study ¹	U	SACE												
TE-0065	Larose to Golden Meadow- Flood Protection ²	I	N/A												
TV-0067	Bayou Tigre Flood Control Project ¹	1	N/A												
TV-0075	Bayou Tigre Flood Control Complex ¹	1	N/A												
Legend		Р	Feasibility & Planning						E	6	Both D	Design	& Coi	nstruc	tion
unda	ct currently on hold; schedule to be ted when implementation recommences.	D Engineering & I				sign			F	Construction Comp			plete		
existi	ct involves additional upgrades of the ng Larose to Golden Meadow levee my schodulo will be provided once specific	W	W Awaitii Impler			al Fun	ding	for	I	f	Progra	m Imj	oleme	entatic	'n
system; schedule will be provided once specific upgrades are identified.		С						Operations, Maintenance, & Monitoring							

▶ Table 3-5: Projected Three-Year Schedules for Active CDBG Projects (FY 2019 - 2021)

		Fe	ederal	CY 2	2018	Cal	enda	r Yr 2	019	Cal	enda	r Yr 2	020	CY 2	021
Project ID	Project Name	-	onsor		2FQ 2019										
BA-0082	Lafitte Area Levee Repair		HUD	С	С	F									
TE-0078	Cut-Off/Pointe Aux Chene Levee		HUD	С	С	С	С	С	С	F					
Legend			Feasibi	lity &	Plann	ing			B	3 E	Both D	esign	& Cor	nstruc	tion
es		D	Engine	ering	& Des	ign			F	(Constr	uctior	n Com	plete	
References		W	Awaitir Implen			al Fun	ding	for	I	F	Progra	m Imp	oleme	ntatio	'n
Re		С	Constr	uctior	ı				С		Operat Monito		Maint	enanc	e, &

▶ Table 3-6: Projected Three-Year Schedules for Active HSDRRS Projects (FY 2019 - 2021)¹

	Eodo	ral	CY 2	2018	Cal	enda	r Yr 2	019	Cal	enda	r Yr 2	020	CY 2	2021
Project Name														
West Bank and Vicinity ^{2,3,4,5}	USA	CE	F											
New Orleans to Venice ^{2,3}	USA	CE	С	С	С	С	С	С	С	С	С	С	С	С
HSDRRS Mitigation- WBV ^{2,3}	USA	CE	В	В	В	В	С	С	С	С	С	F		
Previously Authorized Mitigation WBV ^{2,3}	USA	CE	С	С	F									
New Orleans to Venice Mitigation - Plaquemines Non-Federal ^{2,3}	USA	CE	D	D	D	D	С	С	С	С	С	С	С	С
New Orleans to Venice Mitigation - Federal ^{2,3}	USA	CE	D	D	D	D	С	С	С	С	С	С	С	С
SELA- Overall ^{2,3}			С	С	С	С	С	С	С	С	С	F		
	Р	sibility	y & Pla	anning	9			В	Bot	h Des	ign &	Const	ructic	
	West Bank and Vicinity2,3,4,5New Orleans to Venice2,3HSDRRS Mitigation- WBV2,3Previously Authorized Mitigation WBV2,3New Orleans to Venice Mitigation - Plaquemines Non-Federal2,3New Orleans to Venice Mitigation - Federal2,3	Project NameSponWest Bank and Vicinity2,3,4,5USANew Orleans to Venice2,3USAHSDRRS Mitigation- WBV2,3USAPreviously Authorized Mitigation WBV2,3USANew Orleans to Venice Mitigation - Plaquemines Non-Federal2,3USANew Orleans to Venice Mitigation - Federal2,3USASELA- Overall2,3USA	SponsorWest Bank and Vicinity2,3,4,5USACENew Orleans to Venice2,3USACEHSDRRS Mitigation- WBV2,3USACEPreviously Authorized Mitigation WBV2,3USACENew Orleans to Venice Mitigation - Plaquemines Non-Federal2,3USACENew Orleans to Venice Mitigation - Federal2,3USACESELA- Overall2,3USACE	Project NameFederal SponsorIFQ 2019West Bank and Vicinity2,3,4,5USACEFNew Orleans to Venice2,3USACECHSDRRS Mitigation- WBV2,3USACEBPreviously Authorized Mitigation WBV2,3USACECNew Orleans to Venice Mitigation - Plaquemines Non-Federal2,3USACEDNew Orleans to Venice Mitigation - Federal2,3USACEDSELA- Overall2,3CC	Project NameSponsorIFQ 2019 2019West Bank and Vicinity2,3,4,5USACEFNew Orleans to Venice2,3USACECHSDRRS Mitigation- WBV2,3USACEBPreviously Authorized Mitigation WBV2,3USACECNew Orleans to Venice Mitigation - Plaquemines Non-Federal2,3USACEDNew Orleans to Venice Mitigation - Plaquemines Non-Federal2,3USACEDNew Orleans to Venice Mitigation - Federal2,3USACECSELA- Overall2,3CC	Project NameFederal SponsorIFQ 20192FQ 20193FQ 2019West Bank and Vicinity2.3.4.5USACEFINew Orleans to Venice2.3USACECCCHSDRRS Mitigation- WBV2.3USACEBBBPreviously Authorized Mitigation WBV2.3USACECCFNew Orleans to Venice Mitigation - Plaquemines Non-Federal2.3USACEDDDNew Orleans to Venice Mitigation - Federal2.3USACEDDDSELA- Overall2.3CCCC	Project NameFederal SponsorIFQ 20192FQ 20193FQ 20194FQ 2019West Bank and Vicinity2.3.4.5USACEFIIINew Orleans to Venice2.3USACECCCCHSDRRS Mitigation- WBV2.3USACEBBBBPreviously Authorized Mitigation WBV2.3USACECCFNew Orleans to Venice Mitigation - Plaquemines Non-Federal2.3USACEDDDNew Orleans to Venice Mitigation - Federal2.3USACEDDDSELA- Overall2.3CCCCC	Project NameFederal Sponsor $\mathbf{Federal}$ 2019 $\mathbf{Federal}$ <	Project NameFederal SponsorIFQ 2019 2FQ 2019 3FQ 2019 4FQ 2019 1FQ 2019 2FQ 2019 2DQ 2019 2FQ 2019 2DQ 2019 2FQ 2019 2DQ 2019 2FQ 2019 2DQ 2019 2FQ 2019 2DQ 2019 2FQ 2019 2DQ 2019 2DQ 2019 2DQ 2019 2DQ 2020 2DQ 2020 West Bank and Vicinity2.3,4,5USACEFIIIIINew Orleans to Venice2.3USACECCCCCCHSDRRS Mitigation- WBV2.3USACEBBBBCCPreviously Authorized Mitigation WBV2.3USACECFIIINew Orleans to Venice Mitigation - Plaquemines Non-Federal ^{2.3} USACEDDDDCCNew Orleans to Venice Mitigation - Federal ^{2.3} USACEDDDDCCSELA- Overall ^{2.3} IIIIIII	Project NameFederal SponsorIFQ 2019 2FQ 2019 3FQ 2019 4FQ 2019 1FQ 2019 2FQ 2019 3FQ 2020 3FQ 2020 3FQ 2020 West Bank and Vicinity2.3,4,5USACEFIIIIINew Orleans to Venice2.3USACECCCCCCCCHSDRRS Mitigation- WBV2.3USACEBBBBCCCPreviously Authorized Mitigation WBV2.3USACECCFIIINew Orleans to Venice Mitigation - Plaquemines Non-Federal2.3USACEDDDCCCNew Orleans to Venice Mitigation - Federal2.3USACEDDDCCCSELA- Overall2.3ICCCCCCCC	Project NameFederal SponsorIFQ 20192FQ 20193FQ 20194FQ 20202PQ <br< td=""><td>Project NameFederal Sponsor$1FQ$ $2019$$2FQ$ $2019$$3FQ$ $2019$$4FQ$ $2019$$2FQ$ $2020$$3FQ$ $2020$$4FQ$ $2020$$3FQ$ $2020$$4FQ$ $2020$$2O20$ 2</td><td>Project NameFederal SponsorIFQ 20192FQ 20193FQ 20194FQ 20191FQ 20202FQ 20203FQ 20204FQ 20201FQ 20202FQ 20202020 20202020 202020212021 2021West Bank and Vicinity2.3.4.5USACEFII</td><td>Project NameFederal SponsorIFQ $2019$$2FQ$ $2019$$3FQ$ $2019$$4FQ$ $2019$$1FQ$ $2020$$2FQ$ $2020$$3FQ$ $2020$$4FQ$ $2020$$1FQ$ $2020$$2O20$ $2020$$2O21$ $2021$$2O21$ $2021$$2O21$ $2021$$2O21$ $2021$$2O21$ $2021$$2O21$ $2021$$2O21$ $2021$$2O20$ $2020$$2O20$ $2020$$2O20$ $2020$$2O20$ $2020$$2O20$ $2020$$2O20$ $2020$$2O20$ $2020$$2O21$ $2021$$2O21$ $2021$$2O21$ $2021$$2O21$ $2021$$2O21$ $2021$$2O21$ $2021$$2O21$ $2021$$2O21$ $2021$$2O21$ $2021$$2O21$ $2020$$2O20$ $2020$$2O20$ $2020$$2O20$ $2020$$2O20$ $2020$$2O20$ $2020$$2O20$ $2020$$2O20$ $2020$$2O20$ $2020$$2O20$ $2020$$2O20$ $2020$$2O20$ $2020$$2O20$ $2020$$2O20$ $2020$$2O20$ $2020$$2O20$ 202</td></br<>	Project NameFederal Sponsor $1FQ$ 2019 $2FQ$ 2019 $3FQ$ 2019 $4FQ$ 2019 $2FQ$ 2020 $3FQ$ 2020 $4FQ$ 2020 $3FQ$ 2020 $4FQ$ 2020 $2O20$ 2020 $2O20$ 2	Project NameFederal SponsorIFQ 20192FQ 20193FQ 20194FQ 20191FQ 20202FQ 20203FQ 20204FQ 20201FQ 20202FQ 20202020 20202020 202020212021 2021West Bank and Vicinity2.3.4.5USACEFII	Project NameFederal SponsorIFQ 2019 $2FQ$ 2019 $3FQ$ 2019 $4FQ$ 2019 $1FQ$ 2020 $2FQ$ 2020 $3FQ$ 2020 $4FQ$ 2020 $1FQ$ 2020 $2O20$ 2020 $2O21$ 2021 $2O21$ 2021 $2O21$ 2021 $2O21$ 2021 $2O21$ 2021 $2O21$ 2021 $2O21$ 2021 $2O20$ 2020 $2O20$ 2020 $2O20$ 2020 $2O20$ 2020 $2O20$ 2020 $2O20$ 2020 $2O20$ 2020 $2O21$ 2021 $2O21$ 2021 $2O21$ 2021 $2O21$ 2021 $2O21$ 2021 $2O21$ 2021 $2O21$ 2021 $2O21$ 2021 $2O21$ 2021 $2O21$ 2020 $2O20$ 2020 $2O20$ 202

D

- 1. OM&M duties are the responsibility of the local sponsor.
- 2. Schedule based on USACE estimates.
- References 3. State expenditures may be covered with Surplus allocation for HSDRRS LERRDS.
 - 4. Payments for 30-year payback to commence upon completion of construction activities. According to the USACE, payback will begin in calendar year 2019.
 - 5. Schedule does not include HSDRRS Armoring, which is anticipated to continue into 2020.

Feasibility & Planning		Both Design & Construction
Engineering & Design	F	Construction Complete
Awaiting Additional Funding for Implementation		Program Implementation
Construction	0	Operations, Maintenance, & Monitoring

Table 3-7: Projected Three-Year Schedules for Active and Proposed Oil Spill Projects (FY 2019 - 2021)

		Federal	CY 2	2018	Cal	enda	r Yr 2	019	Cal	enda	r Yr 2	020	CY 2	2021
Project ID	Project Name	Sponsor		2FQ					3FQ			2FQ 2021	3FQ	
Deepwater Hoi	I rizon NRDA Projects		2019	2019	2019	2019	2020	2020	2020	2020	2021	2021	2021	202
BA-0202	Queen Bess Island Restoration	N/A	D	D	D	D	D	D	W	W	W	W	W	W
BA-0203	Barataria Basin Ridge and Marsh Restoration- Spanish Pass Increment	N/A	D	D	D	D	D	D	D	D	W	w	W	W
CS-0080	Rabbit Island Restoration	N/A	D	D	D	D	D	D	D	D	W	W	W	W
PO-0180	Lake Borgne Marsh Creation- Increment 1	N/A	D	D	D	D	D	D	D	D	D	D	W	W
TE-0100	Caillou Lake Headlands	N/A	С	F										
TE-0139	Terrebonne Basin Ridge and Marsh Creation- Bayou Terrebonne Increment	N/A	D	D	D	D	D	D	D	D	D	D	D	D
NFWF Projects		-												
BA-0153	Mid-Barataria Sediment Diversion	N/A	D	D	D	D	D	D	D	D	D	D	W	W
BS-0030	Mid-Breton Sediment Diversion	N/A	D	D	D	D	D	D	D	D	D	D	D	D
LA-0276	Sediment Diversion Implementation and Program Management	N/A	I	I	I	I	Т	I	I	I	I	I	I	1
TE-0110	Increase Atchafalaya Flow to Eastern Terrebonne	N/A	D	D	D	D	D	D	D	D	D	D	W	W
TE-0143	Terrebonne Basin Barrier Island and Beach Nourishment ¹	N/A	D	D	D	D	W	W	W	W	W	W	W	W
RESTORE Proje	cts	-1												
BA-0197	West Grand Terre Beach Nourishment and Stabilization	N/A	D	D	D	D	D	D	D	W	W	W	W	W
CS-0065	Calcasieu Ship Channel Salinity Control Measures	N/A	D	D	D	D	D	D	D	D	D	D	D	D
MR-0168	Lowermost Mississippi River Management Program	N/A	Р	Р	Р	Р	Р	Р	Р	Р	Р	Р	Р	Р
PO-0029	Mississippi River Reintroduction into Maurepas Swamp	N/A	D	D	D	D	D	D	D	D	D	D	D	D
PO-0163	Golden Triangle Marsh Creation	N/A	D	D	D	D	D	D	D	D	W	W	W	W
PO-0174	Biloxi Marsh Living Shoreline Project	N/A	D	D	D	D	D	D	D	D	D	D	W	W
TE-0113	Houma Navigation Canal Lock Complex	N/A	D	D	D	D	D	D	D	D	D	D	D	D
Legend		P Feasik	oility & l	Planni	ng			В	В	oth D	esign	& Con	struct	ion
	will utilize funding initially approved for balier Island Restoration (TE-0118).	D Engin	eering	& Des	ign			F	С	onstru	uction	Com	olete	
			ing Ado mentat		al Funo	ding f	or	I	Р	rograi	n Imp	lemer	ntatio	n
c			ruction					0) perat lonito		Mainte	enance	e, &

Page intentionally left blank



Section 4 Projections: Fiscal Years 2019 – 2020 – 2021

2019–FY 2021, respectively.

While the three-year projections provide readers with an informative picture of the state's upcoming activities, the Legislature only reviews and approves expenditures for FY 2019 (July 1, 2018 through June 30, 2019). The implementation plan incorporates projects that have received funding for planning, design, construction, or OM&M. The state is exploring new ways to fund projects, with the intent of obtaining a level of funding consistently from year to year so that new projects can continue to be brought on line. The state acknowledges that new project opportunities may arise as federal funds become available after the approval of the FY 2019 Annual Plan. In this event, any requests for additional expenditures will be submitted for approval by the CPRA Board.

The state will continue to pursue new possible funding sources while we make the most efficient use of existing funding sources, which include the following:

- several years.

Page intentionally left blank

Table 4-1 presents projected state revenues over the next three fiscal years. Tables 4-2 through 4-4 show a proposal of expenditures over the next three fiscal years. Figures 4-1 through 4-3 depict projected expenditures by project phase for FY

Sources of Coastal Funding

The state Coastal Protection and Restoration Trust Fund is largely supported by mineral revenues and severance taxes on oil and gas production on state lands. The Trust Fund provides funding for the coastal program's ongoing operating expenses, for state's 15% cost share match in the CWPPRA program.

The Louisiana Legislature allocated funds from state budget surpluses in 2007, 2008, and 2009 to the coastal program, providing a \$790 million investment in coastal protection and restoration efforts. All surplus funds are currently projected to be expended by the end of FY 2021.

The Gulf of Mexico Energy Security Act (GOMESA) provides four Gulf Coast states and their coastal political subdivisions, including Louisiana, with 37.5 percent of qualified federal revenue gained from Outer Continental Shelf leases. Revenue sharing is capped at \$500 million through federal FY 2055, but the revenue sharing established under GOMESA will continue beyond that date. The first payment from Phase II of GOMESA is expected in the Spring of 2018, and although prior projections for GOMESA's maximum potential contribution to Louisiana's coastal program ranged from \$120-\$140 million annually, estimates are now \$60-\$70 million, because the cap was not met. CPRA has been advised that this reduced revenue could continue over the next

Louisiana received \$1.06 billion in Community Development Block Grant (CDBG) funding to assist in the recovery from Hurricanes Gustav and Ike. This total includes an allocation of \$27.4 million for state coastal protection and restoration projects. All CDBG funding resulting from Hurricanes Gustav and Ike is currently projected to be expended by FY 2020.

The Office of the Governor generates a Capital Outlay Budget Proposal with a list of projects to be granted cash and non-cash lines of credit. State and nonstate entities may submit Capital Outlay requests for inclusion in the proposal. For FY 2019, the CPRA is requesting Capital Outlay funding to supplement implementation of 13 coastal projects and to fund the state's 30-year HSDRRS payback obligation. Additional information about this request is presented in Appendix F. Final decisions on Capital Outlay requests will be announced at the close of the 2018 Regular Legislative Session.

Development of Funding Projections

The budget projections in Tables 4-2 through 4-4 show the amount of state funds that would actually be needed to accomplish the proposed implementation plan for the next three fiscal years. When developing these projections, the planning team worked with the following assumptions:

- Projected Trust Fund revenues are based on the most recent available information; however, this revenue is difficult to estimate in advance because of a complicated formula and funding triggers based largely on fluctuating mineral revenues.
- All remaining funds earmarked for projects from 2007, 2008, and 2009 surplus funds were carried forward and are shown as revenue for the purposes of the FY 2019 Annual Plan.
- Funding projections represent known avenues through which funding will be received. However, many uncertainties persist regarding the percentages and amounts of funding to be provided by the federal government and local sponsors. Should more dollars become available, the state will be able to expand its efforts and allocate these funds under the direction of the CPRA Board.

Forecasting the Future Funding Picture

The Coastal Master Plan outlines projects for implementation over a 50-year planning horizon. To support this effort, the state is actively pursuing possible sources of funding that may be available over the next 50 years to support future coastal restoration and storm-surge flood risk reduction projects.

Flexibility to Respond to Changing Conditions

Revenue and expenditure projections in Tables 4-1 and 4-2 are based on the most recent available information. Tables 4-1 and 4-2 present a forecast based on a snapshot in time. However, as the Deepwater Horizon oil spill illustrates, the coastal program needs some degree of funding flexibility to enable the state to respond appropriately to changing conditions on the ground. CPRA has been granted authority to reprogram dollars from approved funding streams and to reallocate dollars to best meet new opportunities or needs. Reprogramming of existing and new funds will likely occur, with approval from the CPRA Board, to ensure that limited coastal program funds are allocated to the areas of greatest need and in a manner that will provide the greatest overall benefit to the coast. Such flexibility allows the coastal program to respond effectively to unforeseen events that take place outside the legislatively mandated planning cycle.

LaGov

LaGov is a new statewide integrated financial and procurement system that CPRA began using July 1, 2014. This new system integrates financial, human resources, payroll, procurement, and logistics, and brings multiple benefits to CPRA, most notably, system generated project accounting. Other important advantages are better management of federal grants and other funding sources, improvements in managing vendor relationships, improved reporting, and more efficient business processes. CPRA has most recently begun the implementation of the Project Systems module which has multiple advantageous features for Project Managers to use in managing projects. CPRA will soon participate in a pilot project to develop the state's budget-development module.

Innovative Funding and Financing Initiatives

Louisiana's coastal program is entering into a phase in which it will have the financial means to implement some of the most significant projects called for in its \$50 billion, 50-year Louisiana Coastal Master Plan. This funding will be made available over the next 15 years largely as a result of the Deepwater Horizon oil spill settlements and the maturation of the GOMESA into Phase II. In order to make the most of this anticipated funding. CPRA will undertake a number of initiatives related to finance and funding beginning in FY 2019. These projects will address innovative financing options for certain coastal restoration projects, the marrying of a financing strategy with project implementation mileposts to insure the greatest return on investment in the near and medium term, and developing a road map for potential future revenue streams in the long term.

Outcome-Based Performance Contracting

Another new project implementation initiative being developed by CPRA is Outcome Based Performance Contracting, which was authorized by the Louisiana Legislature in the 2017 Regular Session (Act 356). This project delivery model can provide CPRA with a tool to utilize private investment to get projects on the ground faster, shift significant risk of project success to the contractor, and potentially obtain better overall value, innovation and efficiency in delivering projects. Payment is not based on a contractor merely completing a project, but is instead based on the contractor meeting defined performance criteria for the project over a defined period of time. CPRA is currently exploring which projects and funding streams are best suited for this project-implementation approach.

Restore or Retreat, a non-governmental organization, is partnering with CPRA to maximize and leverage future funding opportunities along with innovative cash management tools and techniques.

Restore or Retreat has contracted with a team of experts to analyze the multiple coastal revenue streams and develop recommendations for the most feasible and cost-efficient options for financing some portion of those revenues. CPRA has partnered with Restore or Retreat to provide information on the intricacies of each revenue stream, including what can and cannot be financed as well as how dollars must be drawn down, and identifying the funds potentially available for CPRA's priority projects. This effort will explicitly investigate new and innovative financial instruments as well as traditional bonds to develop a holistic financial strategy for the coastal program's anticipated revenues.

Long Term Funding

While the coastal program is working to take full advantage of the opportunities provided by the revenues available today and for the next 15 years, the agency is cognizant of its long range funding gap. Currently, around \$20 billion has been identified for the coastal program over the next 50 years while the Coastal Master Plan envisions investing in projects with a total cost of \$50 billion in today's dollars. The CPRA Board called into action the CPRA Finance Working Group, to advance the state's efforts to identify and procure additional funds and funding sources for the Louisiana Coastal Master Plan. Early in 2018, CPRA plans to convene a meeting of key thought leaders from a variety of backgrounds to think through the funding challenges facing the coastal program in the long term. Goals of the meeting will include the identification of viable sources of future revenue as well as action items for furthering the development of the identified options.

Restore or Retreat "Financing Louisiana's Future"

65

Environmental Impact Bonds

Another innovative financing tool which provides up-front capital for environmental programs is Environmental Impact Bonds (EIB). In October, 2017, CPRA announced that the Environmental Defense Fund is performing a feasibility study to design an EIB and determine whether Louisiana can use it as a financing tool to fund coastal restoration. The aim is to develop innovative financing tools that can get projects built sooner, and that may serve as a means for attracting new sources of capital from beneficiaries of wetland restoration.

Natural Resource Damage Restoration Banking (NRD Banking)

Natural Resource Damage Restoration (NRD) Banking is one alternative method that would incentivize private investment in Coastal Master Plan projects through a new project delivery method and a new type of mitigation bank targeted at Natural Resource Damages.

This would allow private entities to finance and carry out restoration projects that are in or consistent with Louisiana's Coastal Master Plan. The private entity could then sell restoration credits to responsible parties to mitigate for natural resource damages liability resulting from certain oil spills under the Oil Pollution Act that occur in Louisiana coastal waters. For the investor, there is potential profit from the sale of the restoration credits; for the potentially responsible party in an oil spill, buying the credits in lieu of lengthy natural resource damage assessment and restoration implementation as well as potentially avoiding probable years of pending litigation and ongoing liability would be beneficial. As for the state, this approach offers another method to facilitate getting Master Plan projects implemented.

In September, 2017, Louisiana's new NRD banking program was officially activated, and it will incentivize private investment in Coastal Master Plan projects. Entities can submit a prospectus to CPRA for review.

New legislation passed by the 2016 Louisiana Legislature and Governor John Bel Edwards directed CPRA to develop a framework and rules for a Natural Resource Damage restoration banking program and an oil spill compensation schedule. Over the past year, CPRA worked with stakeholders, federal agencies, the mitigation banking industry, the Louisiana Oil Spill Coordinator's Office, and the other trustee agencies to draft the framework and regulations for this new program. The final Restoration Banking Regulations were published on July 20, 2017 and are posted at www.doa.lagov/osr/lac/43v31/43v31.doc and the final Compensation Schedule Regulations were published on August 20, 2017 and are posted at http://doa.la.gov/osr/lac/43v29/43v29.doc.

Page intentionally left blank

> Table 4-1: Projected Three-Year Revenues (FY 2019 - FY 2021)

Revenue Sources	FY 2019	FY 2020	FY 2021	Program Total (FY 2019 - FY 2021)
CPR Trust Fund Annual Revenue ^{1,2}	\$14,379,625	\$13,600,000	\$13,200,000	\$41,179,625
CPR Trust Fund Carried Forward	\$15,547,801	TBD	TBD	\$15,547,801
GOMESA ^{1,3}	\$70,000,000	\$70,000,000	\$70,000,000	\$210,000,000
GOMESA Carried Forward ⁴	\$65,190,150	\$87,219,214	\$49,170,157	\$201,579,522
DOTD Interagency Transfer ¹	\$4,000,000	\$4,000,000	\$4,000,000	\$12,000,000
CWPPRA Federal Funds ⁵	\$78,290,682	\$74,933,437	\$77,266,129	\$230,490,248
Surplus '07, '08, '09 Carried Forward	\$125,637,238	\$20,037,383	\$12,752,531	\$158,427,152
Community Development Block Grants	\$4,912,928	\$692,388	\$0	\$5,605,316
Capital Outlay Funds (Previously Appropriated)	\$9,405,000	\$500,000	TBD	\$9,905,000
NRDA Revenues (Deepwater Horizon)	\$94,096,811	\$436,533,147	\$342,789,562	\$873,419,519
NFWF Revenues (Deepwater Horizon)	\$73,479,656	\$133,721,027	\$52,563,957	\$259,764,641
RESTORE Revenues (Deepwater Horizon)	\$45,692,154	\$65,850,280	\$198,274,922	\$309,817,355
LDNR Mitigation Funds ⁶	\$300,000	\$300,000	\$300,000	\$900,000
LDNR Beneficial Use Funds ⁶	\$150,000	\$150,000	\$150,000	\$450,000
LDWF Interagency Transfer ⁷	\$1,000,000	\$0	\$0	\$1,000,000
MOEX Settlement ⁸	\$352,343	\$131,250	\$1,057,030	\$1,540,623
OM&M Federal Funds ⁹	\$27,366,658	\$16,492,809	\$14,455,631	\$58,315,097
LOSCO Funding ¹⁰	\$89,384	\$89,384	\$84,384	\$263,152
Gulf of Mexico Alliance Gulf Star Grant Funding ¹¹	\$25,000	\$12,500	\$0	\$37,500
Project Billing ¹²	\$23,254,531	\$23,000,000	\$23,000,000	\$69,254,531
Capital Outlay Request Submitted for HSDRRS 30-Year Payback	\$0	\$98,432,119	\$98,432,119	\$196,864,238
Total Projected Revenue	\$653,169,960	\$1,045,694,937	\$957,496,422	\$2,656,361,320

1. Annually recurring revenue source to be spent in accordance with the Louisiana Constitution, specifically State Law Section 214.5.4(E) and the provisions within paragraph (3).

2. Estimate tied to mineral revenue.

3. GOMESA funds must be disbursed to the applicable states by the end of the federal fiscal year. FY 2019 GOMESA funds are anticipated to be received between April 2019 (4Q19) and September 2019 (1Q20).

4. Represents carry-forward of unexpended funds from prior-year GOMESA payments.

5. Represents anticipated Federal reimbursement for CWPPRA projects led by CPRA in which the State is initially incurring more than its 15% cost share during project implementation.

6. Supplemental funding to augment construction of eligible projects (specific projects to be determined at a later date).

7. Supplemental funding to augment construction of project ME-0018.

8. Represents anticipated balance as of FY 2019 of an initial deposit of \$6.75 million of funds from the MOEX settlement.

Represents anticipated Federal reimbursement for CWPPRA and WRDA OM&M activities led by CPRA in which the State is initially incurring more than its cost share during project implementation. 9.

10. Represents reimbursement of expenditures for CPRA (non-DWH) oil spill response activities.

11. Represents remaining balance of grant funding received in January 2018 for a pilot monitoring project.

12. Represents salary and other work-in-kind reimbursements for work performed on projects in funding programs listed in the table above.

			,	
▶ Table 4-2: Projected Three-Year Expenditure	es ¹ (FY 2019	- FY 2021)		
Program / Funding Source	FY 2019	FY 2020	FY 2021	Program Total (FY 2019- FY 2021)
CWPPRA State Expenditures (not including Surplus expenditures) ²	\$14,268,665	\$15,066,563	\$12,733,871	\$42,069,099
CWPPRA Federal Expenditures ³	\$78,290,682	\$74,933,437	\$77,266,129	\$230,490,248
WRDA Project Expenditures (not including Surplus expenditures)	\$0	\$0	\$0	\$0
Surplus Projects and Program Expenditures	\$125,637,238	\$20,037,383	\$12,752,531	\$158,427,152
Community Development Block Grants	\$4,912,928	\$692,388	\$0	\$5,605,316
HSDRRS 30-Year Payback⁴	\$0	\$98,432,119	\$98,432,119	\$196,864,238
MOEX Project Expenditures	\$352,343	\$131,250	\$1,057,030	\$1,540,623
Capital Outlay Project Expenditures	\$9,405,000	\$500,000	TBD	\$9,905,000
State-Only Project Expenditures (Non-Surplus)	\$212,953	\$94,146	\$40,003	\$347,102
NRDA Expenditures (Deepwater Horizon)	\$94,096,811	\$436,533,147	\$342,789,562	\$873,419,519
NFWF Expenditures (<i>Deepwater Horizon</i>) (not including Surplus Expenditures)	\$73,479,656	\$133,721,027	\$52,563,957	\$259,764,641
RESTORE Expenditures (<i>Deepwater Horizon</i>) (not including Surplus Expenditures)	\$45,692,154	\$65,850,280	\$198,274,922	\$309,817,355
LDNR Mitigation Expenditures ⁵	\$300,000	\$300,000	\$300,000	\$900,000
LDNR Beneficial Use Expenditures ⁵	\$150,000	\$150,000	\$150,000	\$450,000
LDWF Interagency Transfer Expenditures ⁶	\$1,000,000	\$0	\$0	\$1,000,000
OM&M- State Expenditures (not including Surplus or GOMESA expenditures)	\$10,596,860	\$5,943,935	\$5,297,868	\$21,838,664
OM&M- Federal Expenditures ⁷	\$27,366,658	\$16,492,809	\$14,455,631	\$58,315,097
Gulf of Mexico Alliance Gulf Star Grant Expenditures	\$25,000	\$12,500	\$0	\$37,500
GOMESA Expenditures	\$47,970,936	\$108,049,057	\$72,129,618	\$228,149,611
Operating Costs (see Tables 4-3 and 4-4) ⁸	\$32,192,863	\$35,077,751	\$36,005,417	\$103,276,031
Total Planned Expenditures	\$565,950,746	\$1,012,017,791	\$924,248,658	\$2,502,217,195
Notes:				
 Represents proposed expenditures provided that commensurate level of funding is rece Because CWPPRA projects compete for funding annually, CWPPRA expenditures as press adequately capture likely CWPPRA expenditures in outlying years. The State's estimated Represents anticipated Federal reimbursement for CWPPRA projects led by CPRA in whit Payback is based on current HSDRRS construction schedule; payback will not commence will commence in September 2019 with an estimated annual payment of \$98 million. 	ented in Appendix B (wh CWPPRA expenditures f ch the State is initially inc	for FY 2020 - FY 2021 are the curring more than its 15% c	erefore based on prior ye ost share during project	ars' expenditures.
5. Supplemental funding to augment construction of eligible projects (specific projects to	be determined at a later	date).		

- 6. Supplemental funding to augment construction of project ME-0018.
- 7. implementation
- 8. In the event of a declared emergency, CPRA may need to expend Operating Costs in support of the State's disaster response efforts. Up to 75 percent of these expenditures would be reimbursable by FEMA.

Represents anticipated Federal reimbursement for CWPPRA and WRDA OM&M activities led by CPRA in which the State is initially incurring more than its cost share during project

▶ Table 4-3: Programmatic Projected Three-Year Expenditures (FY 2019 - FY 2021)

Program ID	Program Name	FY 2019	FY 2020	FY 2021	Program Tota (FY 2019 - FY 2021
Ongoing Prog	jram Expenditures		'		
N/A	Beneficial Use Program ¹	\$2,000,000	\$2,000,000	\$2,000,000	\$6,000,000
LA-0251	Barrier Island Maintenance Program ¹	\$2,900,110	TBD	TBD	\$2,900,11
N/A	Vegetative Plantings	\$400,000	\$400,000	\$400,000	\$1,200,00
PO-0162	Assistance to Levee Authorities	\$1,000,000	\$1,000,000	\$1,000,000	\$3,000,00
LA-0028	Restoration Partnerships	\$1,000,000	\$1,000,000	\$1,000,000	\$3,000,00
N/A	Project Support	\$3,500,000	\$3,500,000	\$3,500,000	\$10,500,00
Total Ongoing	Programs Expenditures	\$10,800,110	\$7,900,000	\$7,900,000	\$26,600,11
Adaptive Man	agement Expenditures				
Future Project	Development				
LA-0255	Project Development and Implementation Program	\$250,000	\$250,000	\$250,000	\$750,00
LA-0025	Innovative Programs	\$150,000	\$150,000	\$150,000	\$450,00
LA-0261	Non-structural Program Development ¹	\$1,000,000	\$1,000,000	\$1,000,000	\$3,000,00
Focused Applie	ed Research				
LA-0158	Coastal Science Assistantship Program ²	\$235,000	\$235,000	\$335,000	\$805,00
Science and Te	chnical Advisory Boards				
LA-0260	Master Plan Advisory Committees ²	\$0	\$300,000	\$300,000	\$600,00
Model Develop	oment and Refinement				
LA-0250	Master Plan Predictive Models ²	\$2,500,000	\$3,500,000	\$4,000,000	\$10,000,00
MR-0016-SSPM	Small Scale Physical Model ³	\$500,000	\$500,000	\$500,000	\$1,500,00
System Wide A	ssessment and Monitoring Program (SWAMP)				
LA-0252	SWAMP Development ⁴	\$600,000	\$0	\$0	\$600,00
N/A	Fisheries⁵	\$7,500,000	\$7,800,000	\$8,000,000	\$23,300,00
N/A	SWAMP Implementation ^{3,4,5}	\$11,800,000	\$16,280,000	\$16,280,000	\$44,360,00
LA-0226	Barrier Island Comprehensive Monitoring ³	\$735,300	\$1,927,159	\$765,659	\$3,428,11
LA-0030	CRMS-Wetlands	\$1,250,000	\$1,250,000	\$1,250,000	\$3,750,00
N/A	Regional Geology and Sediment Management ⁴	\$1,000,000	\$830,000	\$830,000	\$2,660,00
Data Managen	nent and Analysis				
LA-0258	Data Management ⁴	\$2,450,000	\$2,400,000	\$2,400,000	\$7,200,00
LA-0254	Monitoring Data Interpretations ^{3,4,5}	\$1,050,000	\$1,050,000	\$1,050,000	\$3,150,00
Communicatio	on and Messaging				
N/A	Workshop and Conference Development	\$150,000	\$150,000	\$150,000	\$450,00
N/A	Language Access	\$25,000	\$25,000	\$25,000	\$75,00
LA-0249	Coastal Education	\$600,000	\$600,000	\$600,000	\$1,800,00
Total Adaptive	Management Expenditures	\$31,795,300	\$38,247,159	\$37,885,659	\$107,928,118

▶ Table 4-3: Programmatic Projected Three-Year Expenditures (FY 2019 - FY 2021)

Program ID	Program Name
TOTAL Program	nmatic Expenditures
Programmatic	Surplus Expenditures (See Table B-5)
Programmatic	NRDA Expenditures (See Table B-14)
Programmatic	NFWF Expenditures (See Table B-14)
Programmatic	RESTORE Expenditures (See Table B-14)
Programmatic	GOMESA Expenditures
Programmatic	Operations Expenditures
Notes	
1. FY 2019 expend	itures funded at least partially with Surplus funds
2. FY 2019 expend	itures funded by GOMESA funds.
3. FY 2019 expend	itures funded by NFWF Adaptive Management funds.
4. FY 2018 expend	itures funded by RESTORE Adaptive Management funds.
5. FY 2019 expend	itures funded by NRDA Adaptive Management funds.

Table 4-4: State Protection and Restoration Projected Three-Year Operating Expenditures (FY 2019 - FY 2021)

Program	FY 2019	FY 2020	FY 2021	Program Total (FY 2019 - FY 2021)
CPRA	\$18,668,730	\$19,415,479	\$20,192,098	\$58,276,308
ОСМ	\$2,827,134	\$2,827,134	\$2,827,134	\$8,481,402
Office of the Governor - Coastal Activities	\$1,476,185	\$1,476,185	\$1,476,185	\$4,428,555
DNR Secretary (OMF Back Office Support)	\$0	\$0	\$0	\$0
Office of the Attorney General	\$185,000	\$185,000	\$185,000	\$555,000
Total Operating Costs	\$23,157,049	\$23,903,798	\$24,680,417	\$71,741,265

-			
FY 2019	FY 2020	FY 2021	Program Total (FY 2019 - FY 2021)
\$42,595,410	\$46,147,159	\$45,785,659	\$134,528,228
\$5,189,296	\$151,047	\$0	\$5,340,343
\$12,250,000	\$14,258,475	\$14,458,475	\$40,966,949
\$6,860,300	\$10,016,905	\$8,855,405	\$25,732,610
\$6,525,000	\$6,511,780	\$6,511,780	\$19,548,559
\$2,735,000	\$4,035,000	\$4,635,000	\$11,405,000
\$9,035,814	\$11,173,953	\$11,325,000	\$31,534,767

Section 4 | Projections: 2019 - 2020 - 2021

▶ Figure 4-1: Projected FY 2019 Expenditures by Project Phase

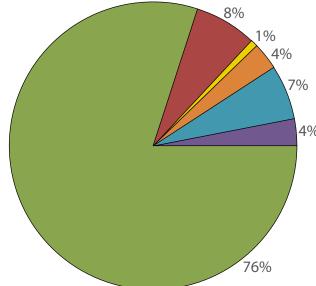
2% 23% Planning (\$10.9 million) 9% Engineering and Design (\$131.5 million) Construction (\$289 million) Operation, Maintenance and Monitoring (\$54 million) Ongoing Programs and Initiatives (\$48.4 million) Operating Costs (\$32.2 million) 51%

Notes

- Construction includes Beneficial Use (\$2 million)
- OM&M includes BIMP (\$2.9 million) and Repair/Rehabilitation of Projects (\$1.1 million)

TOTAL Expenditures **\$566 million**

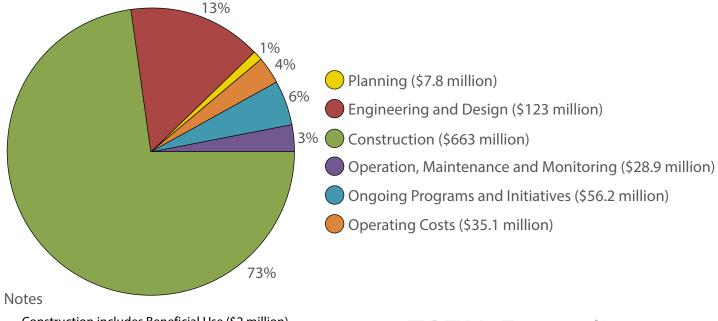
▶ Figure 4-3: Projected FY 2021 Expenditures by Project Phase



Notes

- Construction includes Beneficial Use (\$2 million)
- Engineering and Design and Construction include CWPPRA adjustment for outlying years (see Table 4-2 for explanation)
- Total excludes HSDRRS payback (\$98.4 million)

Figure 4-2: Projected FY 2020 Expenditures by Project Phase



- Construction includes Beneficial Use (\$2 million)
- Engineering and Design and Construction include CWPPRA adjustment for outlying years (see Table 4-2 for explanation)
- Total excludes HSDRRS payback (\$98.4 million)

TOTAL Expenditures \$914 million

Planning (\$6.7 million) Engineering and Design (\$67 million) Construction (\$630 million) Operation, Maintenance and Monitoring (\$31.1 million) Ongoing Programs and Initiatives (\$55.2 million) Operating Costs (\$36 million)

TOTAL Expenditures \$826 million





Appendix A

Page intentionally left blank

Ongoing Protection and Restoration **Project Summaries**

							ONGOING	5 PROTECTIO		ONGOING PROTECTION AND RESTORATION SUMMARIES	
CPRA Program	Name	State Project Number	Type	Federal Sponsor	Parish	Acres Benefited	Miles of Levee Irrunwed	Construction Completion	Total Budget	Project Description	Planning Uni
BERM	Riverine Sand Mining/Scofield Island Restoration	BA-0040	BH	NA	PLAQUEMINES	606	VN	2013	\$60,839,484	The goal of this project is to transport eadments from the Mississippi River to restore dune and marsh habitat on Scofield Island. Project was designed under CWPPRA but constructed using Bernin to Barniar funds.	2
BERM	Shell Island East	BA-0110	HB	NA	PLAQUEMINES	626	NIA	2014	\$47,679,580	The purpose of the project is to restore the integrity of Shell Shard, reduce wave energies within the bay area and restAbilish production habital to Bradia HD states the summunding area. Shell Shand Cast wave constructed to a length of approximately 2.0 miles, a dure becention of -6.0 ford NMUSB. a margar diversion of -2.5 ford NAV/DBS, and a dural fit area of 5.6 acres.	3
BERM	Emergency Barrier Berms	VIN	ot	NIA	PLAQUEMINES, SAINT BERNARD	1417	WN	2011	\$251,000,000	In response to the Deermaaker Anciano Issui Groff Die Basta An Chubisiana constructied approximately 16 mice a found terma auon several sections of the Statistic barrier and and west of the Mississipol Phaner Issains and versions for a set barrier to i and memory is further to the ori spiritor throusands of strates for frage barrier issains and versions for consta Loudisan, A. Ty 200 LD, and the containt term west of the Mississipol Phaner Issains and versions in a constant (Revar RE + 77,000 LD), and Statisticant Orden term west of constant states for the approximater is and set of the approximater in the constant of the activity	1, 2
CDBG	Lafitte Area Levee Repair	BA-0082	Å	DUH	JEFFERSON	VIN	4	Pending	\$500,000	This project withepar damages to the existing levees in the Fisher Dash Area. This damage was caused by heavy equipment and vicibilities can the levee for flood dighting activeles during like and Gutdav. This project will provide for a 4 inch fit on approximately a 6 mile start-h forware.	2
CDBG	Rosethorne W etland A ssimilation Project	6A-0083	ЯН	duн	JEFFERSON	334	NIA	Inactive	\$1,093,769	The Rosshone teatment far thy currently discharges tealed municipal effluent into Bayou Barakaia. This project was intended to fulfue ascondary traded municipal effluent diverted from the Rosshonne treatment laz atty, to restore and sustan coastal wetland horbits.	2
CDBG	Barou Lafourche Fresh Water District- Water S. Lemann Memorial Pump Station	BA-0084	ß	ОЛН	ASCENSION	NIA	N/A	2014	\$3,194,355	This project will replace two of the existing purrops and motors at the Walter S. Lemann Pump Station. This project will also install an erriergercy generator to operate the purrop station during power outlages.	2, 3A
CDBG	Madisorrylle Bulkhead	PO-0087	SP	HUD	ST TAMMANY	N/A	0.1	2014	\$2,144,266	This project will provide construction of mprovements to the existing buildhoad along the shore of Lake Pontchartrain and the Tchefourde Reve. at the Majisonnille Marina.	-
CD80	St. Tammany Parish Watershed Management Study	P0-0151	Н	ОЛН	ST TAMMANY	NIA	NIA	NIA	\$1,363,233	This project involves a planning study to exausiate the feasibility of watershed management measures in St. Tammary Parish	-
CDBG	Faigout Canal Road Levee	TE-0063	8	DUH	TERREBONNE	NIA	4.4	2017	\$24,803,191	This project will replace, modify or repart 6 existing waler control structures, dredge 33 000 feet of Interior channels, and construct 2 new structures to allow freshwater to flow under the existing roadway and proposed leve. The goal of the project is to restore project areas same to restore project areas same to reveal the existing roadway and proposed leve. The goal of the project is to restore project areas same to reveal the existing roadway and proposed leve. The goal of the project is to restore project areas same to reveal the existing roadway and proposed leve. The goal of the project is to restore project areas same to investing and the project structure areas and to interve the efficiency of freetwater flow within the book one bound norm.	34
CDBG	Cut-Of@Pointe Aux Chene Levee	TE+0078	₽	QЛН	LAFOURCHE	NIA		Pending	\$8,468,857	user or every research from the mean contraction in the existing levee system. The 2.5-mile levee will be constructed along 6 rand The source and the into the existing as when so and and in the existing levee system. The 2.5-mile levee will be	ЗА
CDBG	Frankin Floodgate Sinkable Barge and Pump Station (Phase 1)	TV-0052-1	đ	dин	ST MARY	VIN	0.2	2012	\$4,591,380	This project involves the construction of a suivable barge structure on Frankin Canalto prevent storm surge from nundating the town of Frankin	88
CDBG	Frankin Floodgate Sinkable Barge and Pump Station Phose 31	TV-0052-2	dH	DUH	STMARY	NIA	0.2	2015	\$2,148,866	This project will construct a purpor station adjacent to the sinkable barge structure on Frankin Canal (constructed in Phase 1 of the project to prevent storm surge from nurodating the town of Frankin.	38
CDBG	Flood Control Structure at Boston Canal (Deauthorized)	TV-0058	đ	dлн	VERMILION	NIA	NA	Deauthorized	\$5,800,000	This project involves a flood control structure at the intersection of Bostion Canal and the GIVW, which could be closed in the event of a burnisme or flooks at storm intersection of Bostion Canal and the OMWY, that could be closed in the event of a hurnisme or tropical storm.	38
CDB0 CDB0	F ront Ridge Chenier Terracing/Protection Bayou Tigre Flood Control	TV-0060 TV-0067	비	DUH	VERMILION	40 N/A	N/A 0.1	Pending Pending	\$2,078,162 \$6,343,862	This project will construct approximately (35,000 linear feet or marsh terraces south east of Pecan island in Vermaion Parish. This project proviews the irredementation of dood control measures in Barou Three.	4 4
CMP	Morgan City Industrial Road	AT-0005	ot	USFWS	ST MARY	VIN	VN	2015	\$1,247,000	In project is a road alignment that begins at the First Street floodgade in Morgan Cby, LA. The alignment will proceed along the unprotected safe of the floodwall a distance of 1657 feet. And end at the Port of Morgan Cby, LA. The alignment will proceed along the unprotected safe of the floodwall a distance of 1657 feet. And end at the Port of Morgan Cty, so off, gale. The project beneficies and the route project benefic is to provide more road access to the industrial facilities and the museum through the proposed nead, and decrease the radif, in the residential read, and decrease the radif is the residential read.	B
CIAP	A tchafalaya Long Distance Sediment Pipeline	AT-0015	0	_	TERREBONNE	NIA	NIA	NIA	\$1,500,000	CIAP funds allocated to this project are for the purpose of advancing the design of a sediment pipeline which will be used to restore This science in tower the control of advancementary 2.000 means dated of behavior and advance the methymort date	
CIAP	Protection (Phase III)	BA-0015-X2	Ъ	USFWS	ST CHARLES	844	VIN	2009	\$2,300,000	The project involved are constitution or approximatery 4,000 area rector increater processon more the normal so The project road is to restore 2.8 miles and 520 acress of barrier shoreline and 450 acress of marsh by dredoing 3.3 million cubb variats of	2
CIAP	East Grand Terre		HB	USFWS	÷.,	683	NIA	2010	\$25,428,247	of shore more service and the Island. The project was designed under the CWPPRA Program and constructed under the CMP program.	2
CIAP	Barataria Land Bridge Dedic ated Dredging (CIAP)	BA-0036	MC	USFWS	JEFFERSON LAPOURCHE	363	N/A	2010	\$18,000,000	The objective of this project is to create and or nourish 1200 acres of marsh in conjunction with CWPPRA project BA-36.	7
CIAP	Long Distance Mississippi Kive. Sediment Pipeline	-	0	-	JEFFERSON,	371	NIA	2016	\$66,094,073	The goal of this project is to use makenia diveloged from the Mississippi Kriter and transported wai new permanent preeme across the the goal of the treated marks amount a trigge. The marks and nume habitat arrivs the Caminard Habitat Habitat the franch the numb the franch the ensent of The minimum of minimum and interface and nume habitat arrivs the Caminard Habitat area of the ensent of	2
CIAP	Caminada Headlands	BA-0045	Б	USEWS	LAFOURCHE	730	NIA	2014	\$70,679,580	sedenent (searby material for the beach and dure habitat) from offstore borrow areas. This conject is to start 60 males south of New Orlease in Jower Jafourche Parish between Leeville and Borf Fourthon. The nonject	7
CIAP	L4 1 Improvements - Fourchon to Leeville Bridge (CIAP)	ⁿ BA-0055	10	USFWS	LAF OURCHE	NIA	NIA	2010	\$33,000,000	involves the construction of the source viewer of reach income cancer each other construction cancer. The proper Involves the construction of the final properties of the deviated hypeway (two, 1.2 II all ands and Mo, 1.8 Ishoublers). The Phase IA project connects to the Phase IB and Phase IC projects (th Loonile) by relocating LA 1 on a new alignment.	2
CIAP	Fringe Marsh Repair	BA-0058	MC	USFWS	PLAQUEMINES	300	AW	2014	\$8,756,605	This program involves the reestablishment of approximately 300 acres of critical areas of fragile marsh in lower Plaquemines Parish to help minimize the continued fragmentation of wetlands system throughout the coast.	2
CIAP	Misolosippi River VV ater Reintroduction into Bayou Lafourche - BLFWD	BA-0161	6	USFWS	ASSUMPTION, LAFOURCHE	NotAvailable	NVA	2016	\$20,000,000	This poster is estimated to adve torthe continued designing of a JDDD CEA channel for an additional 1 - 32 mise additional estimated to adve the source. Overall project is estimated to implementation muchans a receiving interact and the part of diversion in the Mississippi INVI- a purpression system with a combined explanate or 1,000 CEA, and estimate part of diversion in the Mississippi INVI- a purpression system, the combined explanate character or 1,000 CEA, and estimate posterior diversion and reading to fleaving a Durabisormities modification or viewer studies. The state state action above the monitor stations to advect the diversion of the second Ladourche. Increasing the Wooden Basics Table and the state action advect to be energia approx. 120,000 - 130,000 action and the Ferretoneme and Bastatia Basics through reductions in the stantees and/or nouristement of wellands with the preduction and distribution of oscilment and nutriensity formities.	2, 3A
CIAP	Shoreline Protection Cat Island	BA-0162-CAT	e S	USFWS	PLAQUEMINES	40	NA	Inactive	\$1,200,000	The puper war consolution of a second second and the manuscrupture account of the maximum second to the consolution of the property of the damaged shores and the order to naturally the order of the pland terms and shore of consolution of design activities of an activity of the dagraded infrastructure of the Islands. The project was designated inscribe following the completion of design activities of the consolution activities of the stands. The project was designated inscribe following the completion of design activities of the consolution activities of the stands.	5
CIAP	Shoreline Protection Emergency Restoration	BA-0162-SPEF	R SP	USFWS	PLAQUEMINES	40	NIA	2013	\$355,780	This project consist of a series of submerged wave breaks surrounding storetine segments in Lower Plaquennies Parish to protect the on damagaba mores adong the series prisand remarkits from turther wave damage while also colecting sedment in order to naturaly thebuilt the discontation information information.	2
CIAP	Bayou Lamoque Floodgate Removal (Inactive)	BS-0013-EB	đ	USFWS	PLAQUEMINES	660	NIA	Inactive	\$2,070,559	This project involves the removal of floodgates to allow unimpoded flow of freshwater through the water control structures.	-
CIAP	FIFIIsland Restoration	CIAPFIFI	00 00	USFWS	JEFFERSON	126	NIA	2003	\$751,406	This project provides protection for approximately 100 acres of existing island habital (Grand Isla & Fili Island) by the installation of approximately 10,000 instarteet of rock shore protection. An additional \$939,500 was contributed from the CIAP of 2001 for the construction and design in this protect.	3
CIMP	M arsh Creation via Beverical Use (Phase 10 (Black Lake)	CS-0035-EB	-	USFWS	CAMERON	300	NN	2010	\$10,000,000	This project involves the creation of approximately 200 acres march through beneficial use of dredged material from the Calcasieu Ship Channel.	4
CIAP	Trosclair Road Repairs	CS-0047	OT	USFWS	CAMERON	NIA	NJA	2009	\$2,039,592	This project involves construction an overlay on Trossial Road, a parish road that is heavily used by olifield Inallic. The project is approximately 8 miles long and connects State Highway 27/82 from Cameron to State Highway 82 to Oak Grove.	4
CPRA Program	Name	State Project Number	Tyme	Federal	Parish	Acres	Miles of Lance	Construction	Total Budget	UNGUING PRUTECTION AND RESTORATION SUMMARIES Millioson Construction Total Budget (Project Description Locus	Planning Uni
CIAP	Buch Canal and Bayou	DNR 2513-	e s	USFWS	TERREBONNE	4300	NA	2007	\$3.700.000	The project reconstructed the south bank of Bush Canal using material endoged from the canal. The restored bank her was then reconstructed with manuscription and ammond with theme increase. The annual herefords with the fractional canad	96

Planning Unit	ЗА	2	VE	2	2	COASTWIDE	COASTWIDE	4	4	1, 2, 3A	ų.	1	1	1		Ţ	4	1,2	38	38	38	38	38	
Project Description	This project reconstructed the south bank of Buch Canal using material dredged from the canal. The restored bank the was then correct with powerble dark and armored with soure the sure, the webulk bank-the will help to drinking storm surge as well as reduce standare intension. The project was churded by the CAR Of 2001.	This resoarch study will be conducted on the Barataria Land Bridgo Dedicated Dredging Project (BA. 36) and will assess the effect of dredged sediment application on solt-weakelation-thydrologic dynamics within deleriorating interior brackish marshes.	This study focuses on the expected vertical elevation change of the dredge stury fill due to immediate and bring term settlemment and consolitation. Vioric performance reviewing primoria analysis spectrum dia help reprintive usualization priordi statement and consolitation, resonance in the second priording analysis spectrum dia help reprive our later to priordi statement and consolitation, additionary, reference and construction montoring shall be performed to verify the accuracy of the settlemment and consolidation analyses and construction montoring shall be performed to verify the accuracy of the settlemment and consolidation analyses and construction montoring shall be performed to verify the accuracy of the settlement and consolidation analyses and construction montoring shall be performed to verify the accuracy of the settlement and consolidation analyses and construction montoring shall be performed to verify the accuracy of the settlement and consolidation analyses and construction montoring shall be performed to verify the accuracy of the settlement and consolidation analyses and construction montoring shall be performed to verify the accuracy of the settlement and consolidation analyses and construction montoring shall be performed to verify the accuracy of the settlement and consolidation and settlement and construction montoring shall be performed to verify the accuracy of the settlement and consolidation and settlement and construction montoring shall be performed to verify the accuracy of the settlement and consolidation and settlement and construction montoring shall be performed to be accuracy of the settlement and consolidation and settlement and construction montoring shall be performed to be accurated to be acc	Evaluation of Tidai Pass Morphology Post-Restoration at East Grand Terre and Development of Barrier Island Comprehensive Monthoring Program vestation aarming protocols	Research to be conducted on the Carninada Heatland in order to quantify the amount of consolidation in the substrate under/ing barriar islands resulting from placement of sand for signal restoration.	The florrow Area Montoring and Management (RAMM) was intered to understand the avoiuthon of borrow pas for restoration projects (protocus conscistors, and orffoxions) vers time, with a particular rouse other fluid of cases and yard or of the particular route the particular course of the particular core of the particular constance. The study of cases and where constances are averable and variate data form the second second flored are frame. The study convect the relation of geophysical quotechnical and wake quark data form sereal borrow areas to understand motionly the above orjectives but also the hypoic contribution for our of the form areas.	A program to preserve existing coastartorest via purchase of fee title or conservation servitudes from willing land owners	The project involves the construction of three types of shorefine protection structures as a demonstration to determine which type(s) of structures are successful in protecting the shorefine. Successful structure(s) are intended for use in a larger CWPPRA Project.	This project involves the construction of approximately 37,900 linear feet of shoreline protection on the south shore of Grand Lake from Superior Canal to Teob Point.	This profer involves the construction of a new expanded Small Scale Physical and one (SSPA), The project states of new expandence structures of the previous SPA. The project wall as an intersect area of construction of a new faction with an intersect and and the previous SPA. The project wall as an intersect on of a new faction with the extendence structure structure of a new faction of a new f	This project investigates the diversion of thestwatter from the Mississippli Filver into Lake Borghae to freshen Mississippli Sound, Central Widtlands, and Bloxi March areas. The Foasbilly Study for this project is being done as part of the MFG-D Ecosydem Rectoration F.S.	This project provides shoreline protection on the northwest rim of Lake Borgne west of Allgator Point.	Throngly sensitiving mechanisms, including percepted, and other, as this dependent set in the fact and reaches shoreher has been protected Sant Chandre Parich has a couped \$1,73,3816 of CAPP funding to construct 1,400 insor foot of shorehor protection (PA) East LeBranches Shorehers Parich has a couped \$1,73,3816 of CAPP funding to construct 1,400 insor foot of shorehor shorehore non-school performance and the shore Parich has controlled by a score of shorehore and shorehore non-school performance and the shore the school performance and the shore of control performance and the school performance and the scho	This demonstration project investigates the beneficial use of Ferrate as an alternative to chlorine to treat effluent at the SWENO'S East about Steven Treatment Plant.	This project involves the discharge of effuent from a CWBNO oxisation plant to be discharged into the Central Wetlands. This would advive egislation to program once again in this area, and would also save SL Bernard Parish the cost of running a severe fine from the	This project involves the introduction of freshwater from the SWENC'S East Bank Sever Treatment Plant to combat saft water intrusion from MRC:0 and thus attends to replensis the once through centre Vestands. The project involves piping treated effuent from the EBSTP to St. Bernard and and and and and and and and and an	The Central Wetlands Demonstration Expansion project would restore up to 17.2 acress of critic al wetlands in the area designated A-1 uson wetlands as standards of criterated wastwatter there and/or criterate network lauses of a softbooldist criterated wastwatter according to a softbooldist criterated wastwatterated Transmer Plant, other softbooldist of the criterated network lauses of a softbooldist criterated wastwatterated horecast with independe painting from cypresoftboold of the criterate action as a compariated metal to a consignated the device waster and a soft of the criterated waster action as a compariated metal action of the criterated waster action as a compariated metal action of the criterated waster action and a compariated metal action of the criterated waster action and a consignated metal action of the criterated waster action and a compariated metal action of the criterated waster action and a compariated metal action of the criterated waster action and a compariated metal action of the criterated waster action action action and action of the criterated metal action action action action and action a	The primary project involves the construction of bioengineered oyster reefs along coastal fringe marsh in St. Bernard Parish. The establishes was these prime frait Pointforms in disport to Lothe sound cyber vore reprimers broad externing acound the couldren above of Transie Bay. Other builde Living Scheding policies and in Pattermines Parish and utilities Parish.	The project consists of constructing approximately 35,000 linear feet of ferraces. The terraces were created by dredging in stratow open water areas and pling the spot on one side of the borrow area. An additional \$391,783 was contrbuted from the CMP of 2001.	The project objective is to reactoric critical lengths of doterioratiod channel banks and stabilizolarmor selected critical lengths of deteriorated channel banks with hard stronefine stabilization melerials.	The goal of this project is to stop erosion along the bank of Freshwater Bayou Canal and to protect the hieror wetlands from sabwater intrusor, in transact that activations and water erosion. This wait be achieved by constructing a rock dee along the occurrent and western and herosoft freshwater erosion.	This project involves the replacement of the bridge on Port Road over Commecial Canal at the Port of Iberia. The Thandles a strong correct produced products and the lage equipment used in transporting these products take a major roi on the ports intriges and amount of CCS produced products and the lage equipment used in transporting these products take a major roi	This project involves the replacement of the bridge on David Dubois Road over Commercial Canal at the Port of beria. The Port of Beria handles a substantiation and not OCS produced products and the large equipment used in Zansporting these products takes a more han on the norte building and more and notices produced products and the large equipment used in Zansporting these products takes a	major rom on ure port s prioges and roadways.
Total Budget	\$3,700,000	\$432,618	\$286,029	\$558,606		\$813,512	\$20,166,136	\$8,500,000	\$9,129,919	\$13,520,000	\$1,120,982	\$20,860,000	\$3,753,816	\$3,500,000	\$2,000,000	\$4,500,000	\$4,500,000	\$26,500,000	\$951,869	\$7,274,676	\$13,568,804	\$625,792	\$1,058,013	
Construction Completion	2007	NIA	VIN	NIA	NIA	VIV	NIA	2009	2010	2017	NIA	2013	2015	2016	2015	Inactive	2016	2017	2005	2011	2014	2013	2013	
Miles of Levee Immond	N/A	VIN	VIN	NIA	NIA	VIN	NIA	NIA	NA	NJA	NIA	N/A	VN	NIA	NIA	VN	NIA	NA	NIA	NIA	NIA	NIA	N/A	ĺ
Acres Benefited	4300	VIN	VIN	NIA	NIA	VIN	40000	23	495	NIA	13200	140	Not Available	10-20	346	473	17.2	5340	640	1,180	223	NIA	NIA	
Parish	TERREBONNE	JEFFERSON	VERMILION	JEFFERSON, LAFOURCHE	JEFFERSON, LAFOURCHE	COASTWIDE	COASTWIDE	CAMERON	CAMERON	EAST BATON ROUGE	ST BERNARD	ORLEANS	ST CHARLES	ST BERNARD	ST BERNARD	ST BERNARD, ORLEANS	ORLEANS	ST BERNARD, JEFFERSON, ORLEANS	VERMILION	TERREBONNE	VERMILION	IBERIA	IBERIA	
Federal Sponsor	USFWS	USFWS	USFWS	USFWS	USFWS	USFWS	USFWS	USFWS	USFWS	USFWS	USFWS	USFWS	USFWS	USFWS	USFWS	USFWS	USFWS	USFWG	USFWS	USFWS	USFWS	USFWS	USFWS	1
Project Type	e's	OT	01	01	от	01	PP, OT	e,	ď	OT	FD	es S	ď	HR	부	HH	HR	ЗP	WC	e.	SP	OT	οT	1
State Project Number	DNR 2513- 0311	LA-0012-2	LA-0012-3	LA-0012-5	LA-0012-6	LA-0012.7	LA-0013	ME-0018-EB	ME-0021-EB	MR-16-SSPM	PO-0035-E8	PO-0036-EB	PO-0043	PO-0073	PO-0073-1	PO-0073-2	PO-0073-3	PO-0148	RAINEY	TE-0043-EB	TV-0011-8-E8	TV-0028	TV-0030	T
Name	Buch Canal and Bayou Terrebonne Bank Stabilization	Performance Evaluation - Barataria Land Bridgo Biological Monitoring	P enformance Evaluation - F restrivator Bayou	CIAP Performance Evaluation - Barrier Island Studies	CIAP Performance Evaluation - Carninada Moreau Subsidence Study	CLAP Performance Evaluation - B orrow Area Management and M ontoring	Coastal Forest Conservation Initiative	ler Shoreline in Demo (CIA P)	Grand Lake Shoreline Protection (CIAP)	Delta Strategic Expansion	Violet Diversion	Orleans Land Bridge SP & Marsh Creation	East LaBranche Shoreline Protection	Central Wetlands Demonstration	Central Wetlands - Riverbend	Central Wetlands - EBSTP to A2	Central Wetlands Demonstration Expansion	Living Shoreline	Rainey Audubon Wildlife Sanctuary Earthen Terraces	GIWW Bank Restoration of Critical Areas of Terrebonne (CIAP)	F reshwater Bayou Bank Stabilization	Port of Iberia Bridge Replacement - Port Road over Commercial Canal	Port of Iberia Bridge Replacement - David Dubois Pood over Commercial Canal	
CPRA Program	CIMP	CIAP	CMP	CIAP	CIAP	GMP	CIAP	CIAP	CIAP	CIAP	CIAP	CIAP	CIAP	CIAP	CIAP	CIAP	CIAP	dWD	GIAP	CIAP	CIAP	CIAP	CIAP	

							ONGOIN	3 PROTECTIO	N AND RESTOR	ONGOING PROTECTION AND RESTORATION SUMMARIES	
CPRA Program	Name	State Project Number	t Project Type	Federal Sponsor	Parish	Acres Benefited	Miles of Levee Imamved	Completion Completion	Total Budget	Project Description	Planning Unit
CWPPRA	Atchafalaya Sediment Delivery	AT-0002	so	NMFS	ST MARY	2232	NA	1998	\$2,532,147	The oblicitive of this project is to enhance natural delta growth by no opening Natal Channel and Castlle Pass. Natal Channel was no established with a 120-ford wide, 10-ford derex, 8,800-ford long channel and Castlle Pass with a 190-ford wide, 10-ford derep 2,000- ford bing channel. Material dredged (700,925 cubit yards) as a result of construction was strategic aly placed at elevations minicking natural deta blocs.	38
CWPPRA	Big Island Mining	AT-0003	MO	NMFS	ST MARY	1560	N/A	1998	\$7,077,404	The policy includes conting a new worken data hole behind gli pisand so minare the accertaion frand boyond he work bank of the Althatikas River. Constraints in kickled angling of a main stem and free barnick densing to minim marvar channel di Burcashons, morgond material was strategical pica at alema stem and free barnick data bobes. Re-opening the channels is associatoris muca contraints contraints and and an analysis minimized in a picate babes. Re-opening the channels is	38
CWPPRA	Castlic Pass Channel Sediment Delivery (Deauthorized)	AT-0004	sD	NMFS	ST MARY	589	NA	Deauthorized	\$1,717,883	This project investigates dredging a system of distributary channels to create 589 acres of march through codiment placement and industributes deposition.	38
CWPPRA	GINVVV (Outfinitize oastal W aterway) to Clovely Mydrologic Restoration	BA-0002	Ĥ	NRCS	LAFOURCHE	175	NIA	2000	\$12,896,358	The project includes the construction of features (including canal plugs, rock wers, fixed creat wers with hoat hoys, one variable creat werk, and house the revealed point of the vertiew basics that have erobod away) in castern Latourche Parich to restore the area to the hydrologic conditions the revealed functions.	2
CWPPRA	Naomi Outfall Management	BA-0003-C	WO	NRCS	JEFFERSON	634	NIA	2002	\$2,285,972	The project manages the outfait of the existing eight sphore by controlling the traverment of the diverted waters. The sightons dhent sectimentales water from the Mississiph River into the west bank wetlands to relard salwater intrusion and enhance wetland productivity.	2
CWPPRA	W ect Pointe a la Hache Outfall M anagement (Deauthorized)	BA-0004-C	뷰	NRCS	PLAQUEMINES	646	N/A	Deauthorized	\$6,620,516	The project goal is to optimize use of fresh water and sodiment supplied by existing siphon by reducing channelized flow and routing the directed flow to nounish marshes. Project was deauthorized in 2015.	2
CWPPRA	Lake Salvador Shore Protection Demonstration	BA-0015	å	NMFS	ST CHARLES	VIN	V/N	1998	\$5,858,506	The Dijkelwe frims project for mentation the storeake abord, a scalable on it cales (scalable are exclusion that instruction) of the interformation of the project wate constructed to demonstrate the order theorem of the project wate constructed to demonstrate the interformation of 8,000 feet of continuous fork structure along the exclusion of 8,000 feet of continuous fork structure along the exclusion of 8,000 feet of continuous fork and the project wate constructed to demonstrate the order of continuous fork structure along the exclusion of 8,000 feet of continuous fork structure along the exclusion of 8,000 feet of continuous fork structure along the exclusion of 8,000 feet of continuous fork structure along the exclusion of 8,000 feet of continuous fork structure along the exclusion of 8,000 feet of continuous fork structure along the exclusion feet of continuous fork structure along the exclusion of 8,000 feet of continuous fork structure along the exclusion of 8,000 feet of continuous fork structure along the exclusion of 8,000 feet of continuous fork structure along the exclusion of 8,000 feet of continuous fork structure along the exclusion of 8,000 feet of continuous fork structure along the exclusion of 8,000 feet of continuous fork structure along the exclusion of 8,000 feet of continuous fork structure along the exclusion of 8,000 feet of continuous fork structure along the exclusion of 8,000 feet of continuous fork structure along the exclusion of 8,000 feet of continuous fork structure along the exclusion of 8,000 feet of continuous fork structure along the exclusion of 8,000 feet of continuous fork structure along the exclusion of 8,000 feet of continuous fork structure along the exclusion of 8,000 feet of continuous fork structure along the exclusion of 8,000 feet of continuous fork structure along the exclusion of 8,000 feet of continuous fork structure along the exclusion of 8,000 feet of continuous fork structure along the exclusion of 8,000 feet of continuous fork structure along the exclusio	3 2
CWPPRA	Fourchon Hydrologic Restoration (Deauthorzed)	BA-0018	HR		LAF OURCHE	NIA	NIA	Deauthorzed	\$7,703	ure research of this project ways of the section of the section of the section of the project was officially deauthorized by the CWIPP RA 1 ask force in July of 1984 at the request of the landowner.	2
CWPPRA	Barataria Bay W aterway W etland Restoration	BA-0019	WC	-	JEFFERSON	510	NN	1996	\$1,170,000	The project beneficialy used dredge material to entarge Queen Boss Island. The goal of this project is to restore the natural hydroboar conditions of the area and reduce shorehoe ecosion. The goal was partly	2
CWPPRA	Jonanan Daris wegang Protection Barou Perol/Barou Rigolettes	BA-0020	HR, SP	_	JEFFERSON	510	NIA	2003, 2012	\$28,886,616	scrompshared finalingh constructing a series of varies control structures. Construction unit 4 consists of 4,180 f of rock rip rap reventment, 6,110 of concrete and endepties wall plugg and march creation. This provised was authorized to prodect update and termentative behaviors.	2
CWPPRA	Marsh Restoration (Deauthorized)	BA-0021	WC	NMFS	JEFFERSON	1065	NIA	Deauthorized	\$20,964	using reverse the project was deemed understored to be to an unstable and rapidly eroding site, the project was deemed undescible and was officially decoding site, the project was deemed undescible and was officially decoding site, the project was deemed undescible and was officially decoding site, the project was deemed undescible and was officially decoding site, the project was deemed undescible and was officially decoding site, the project was deemed undescible and was officially decoding site, the project was deemed undescible	2
CWPPRA	Bayou L'Ours Ridge Hydrologic Restoration (Deauthorized)	BA-0022	Ħ	NRCS	LAFOURCHE	737	NA	Deauthorized	\$371,232	This project was proposed to restore natural hydrobolos flow to her march by reinforcing presented areas of the Bayou L'Ours Floipe Through a series of caral obsures and two water control structures. The project was officially deauthorized by the CWPPRA Task Force high 2003 becauge of landphilts issues.	2
CWPPRA	Barataria Bay Watenway West Side Shoreline Protection	BA-0023	e S	NRCS	JEFFERSON	1789	N/A	2000	\$3,304,787	The project objective is to rebuild the west bank of the Dupree Cul to project the adjacent marsh from unmatural water exchange and subsequent erosion. A rock dike was constructed along 9,400 linear feet of the west bank of the Barataria Bay Waterway.	2
CWPPRA	Myrtle Grove Siphon (Deauthorized)	BA-0024	FD	NMFS	PLAQUEMINES	N/A	N/A	Deauthorized	\$481,802	The goad of the project is to reduce safevaler intrustor and to nounish existing marks). This wall be excormplated by cheming water Intrough a signorh formithe Mississippi fielen to adjacent weilands. This project was for field each force of the In October 2007 because a shared subscription was authorized at the same location (see 10.4.3.3).	3
CWPPRA	Bayou Lafourche Siphon (Deauthorized)	BA-0025-A	FD	EPA	LAFOURCHE	428	NIA	Deauthorized	\$45,922	The goal of the project is to reduce marsh loss adjacent to Bayou Lafourche by Introducing indrient and sodimentiaden river water through large signon pipes. This project was reauthorized on the 11th PFL as BA-256.	2
CWPPRA	Mississippi River Reintroduction Into Bayou Lafourche (Deauthorzed)	n BA-0025-B	8	EPA	ASCENSION, ASSUMPTION, LAF OURCHE, TERREBONNE	85000	N/A	Deauthorized	\$9,619,586	The goad of the project is to region and protect threads of marsates in the Satardia and Terrebone basis in tropic retribution of sediment and nutrient label massissipping we water via Bayou Lafouche. This project was conjundy authorized on the Shi PFL as Bu- S. This project was omissing adminuted by the Breaux Act Task Force in October 2001; however, engineering and design wai be confined for the CPR in indication fractionation and contract acts Task Force in October 2001; however, engineering and design wai be	2
CWPPRA	Barataria Bay Waterway East Side Shoreline Protection	BA-0026	g	NRCS	JEFFERSON	217	N/A	2001	\$5,224,477	The objective of this project is to reduild the banks of the BBWW to project the adjacent mash from accessive tidal action and sakwatar introduces to resists of 17,600 (3.3 miles) of levee constructed with diedged material from the BBWW; and 17,600 (13.1 miles) of the sakwatar introduced material from the BBWW; and 17,600 (13.1 miles) of the sak action accessive and the BBWW is and 17,600 (13.1 miles) of the sak action accessive action accessive and 17,600 (13.1 miles) of the sak action accessive action action accessive action action accessive action accessive action accessive action accessive action accessive action action accessive action action accessive action action accessive action action action accessive action action action accessive action action action accessive action act	2
CWPPRA	Barataria Basin Landbridge Shoreline Protection, Phases 1 and 2	BA-0027	ď	NRCS	JEFFERSON	1304	VIN	2009	\$31,288,623	The objective of the project is to solect a cost effective erosion control technique to stop the erosion on the southwestern shorehine of Barou Perol and the southeastern shorehine of Barou Rigolaties. The length of protection is estimated to be approximately 71,000 feet.	2
CWPPRA	Barataria Basin Landbridge Shoreline Protection, Phase 3	BA-0027-C	SP	NRCS	JEFFERSON, LAFOURCHE	5587	NJA	1999, 2008, 2017	\$46,231,597	The project tested sections of different shoreline protection types, such as, concrete panel wall, rock and light rock. These projects have constructed over 41,000 feet of shoreline protection	2
CWPPRA	Barataria Basin Landbridge Shoreline Protection Phase 4	BA-0027-D	e S	NRCS	JEFFERSON	589	NVA	2006	\$17,709,216	This project consist cord 31,500 feet or forechore nock dive with a liphweight aggregate core or concrete sheetelle and will incorporate "fish diar" and openings at historic natural channels to eliminate shoreline erosion and deterioration of the Barataria landuridge	ю
CWPPRA	V egetative Plantings of a Dredged Material Disposal Site on Grand Terre Island	BA-0028	٩٧	NMFS	JEFFERSON	127	MA	2001	\$526,314	This project twoked the installation of vegetable plantings on previously constructed march and dune platform.	2
CWPPRA	LA Highway 1 Marsh Creation (Deauthorized)	BA-0029	MC	EPA	LAFOURCHE	146	NIA	Desuthorzed	\$250,257	The objective of this projectives to create marsh habit at in a large open water area adjacent to Louisana Highway 1 using dredged materian from two proposed bornow areas. This project was ontcately desumborized by the CWPPAA. Task Force in February of 2005 because are determined for the inforcation.	2
CWPPRA	East/W est Grand Terre Islands Restoration (Transferred)	BA-0030	WC	NMFS	JEFFERSON	403	NIA	Transferred	\$2,211,739	The goal of this project is to stabilize and benefit 1.575 acres of barrier island habital and externd the island's life expectancy. Dredged makeina will be used to create other and marsh habitat on East Grand Terre Island. This project was constructed using CIAP 2007 funds.	2
CWPPRA	Deta Building Diversion at Myrtie Grove (Transferred)	BA-0033	ß	USACE	JEFFERSON, PLAQUEMINES	8891	NA	Transferred	\$327,422	The objective of this project is to divert Mississeppi River water and sedment for the creation of new emergent wetlands. The project will involve: incluation of grade box culvents on the west bank of the Mississepti River in his vicinity of Mystis Grow; diodcated drodging from the Mississepti River to create marks in the vicinity of Bearou group, the Band and Ber Waterwar, and the Witkinson Canal, or a combination of these actions. This order that was tandered to he LCA Program.	2
CWPPRA	M Ississippi River Reintroduction Into Northwest Barataria Basin (Transferred)	n BA-0034	đ	EPA	ST JOHN THE BAPTIST, ST JAMES, LAFOURCHE	5134	NIA	Transferred	\$17,098,769	The goal of this project is to restore the naturality drobogic regime and add numents to adjacent swamp areas. The project would utilize a freshwater diversion approximation from the Mississipal River to nontrivest Borataria Basar wetlands with gogen of of banks and byterment of curverts under LA Highmayr 20. The scope of the project was charged and the revised project was re-numbered BA-34- 2.	5
CWPPRA	Hydrologic Restoration and Vegetative Plantins in the Lac des Allemands Swamp	BA-0034-2	HR, VP	USFWS	ST JOHN THE BAPTIST, ST JAMES, LAFOURCHE	5134	V/N	Pending	\$14,355,710	The goal of this project is to restore the natural hydrobojic regime and add nutrients to adjacent swarpo areas via hydrobojic restoration. Project features include the implementation of sool bank gaao, cuivers, and other hydrologic improvements for the impounded swarms to reverse the impoundment effects that are currently serious impediments to swarm health	2
CWPPRA	Pass Chaland to Grand Bayou Pass	BA-0035	HB	NMFS	PLAQUEMINES	359	NIA	2009	\$46,414,530	This project involved the creation of a dune and marsh platform on the north side of the Gulf of M exic o adjac ent to Bay Joe Wise. Sand fencing and vegetation were installed.	2
CWPPRA	Dedicated Dredging on the Barataria Basin Landbridge	BA-0036	M	USFWS	JEFFERSON	2800	N/A	2010	\$36,281,893	Approximately 5,388,000 cubic yard of material was period in hwo contained march, creation areas to contract approximately 1,211 areas of interfact march at a final Hervation of +2,5 NAVD 88, Approximately 3,901,000 cubic yards of material was placed in adjoining fit areasts in noutish approximately 1,325 areas of march.	10
CWPPRA	Little Lake Shoreline Protection/Dedicated Dredging Near Round Lake	BA-0037	MM, SP	NMFS	LAFOURCHE	713	VIN	2007	\$44,931,412	This project is dreagned to protect area wetlands, which currently expensione high rakes of shoreline ecosion. This project protects approximately 21,000 eed of Lible Lake shoreline, create 488 acress of interficial wetlands, and nourish an additional 332 acress of fragmented, subsidion manual.	2
CWPPRA	Pelican Island and Pass La Mer to Chaland Pass Rectoration	r BA-0038	BH, VP	NMFS	PLAQUEMINES	1117	VIN	2012	\$52,893,695	The objectives of this project are to create barrier island habitat, enhance storm-related surge and wave protection, prevent overhopping fouring sources and burcless the volume of sand within the active barrier system. This project was frest anthoread on the Bin Pr1-Las Barrier fiscance, sand burcless the volume of Sand within the active barrier system. This project was frest anthoread on the Bin Pr1-Las Barrier fiscance, sand burcless the volume of Sand within the active barrier system. This project was frest anthoread on the Bin Pr1-Las Barrier fiscance, sand burcless the volume of Sand within the active barrier system. This project was frest anthoread on the Bin Pr1-Las science/set in 2007.	2
							ONGOING	S PROTECTION	4 AND RESTOR	ONGOING PROTECTION AND RESTORATION SUMMARIES	
CPRA Program	Name	State Project Number	t Project Type	Federal Sponsor	Parish	Acres Benefited	C	Construction Completion	Total Budget		Planning Unit
	te trouted and Diver C adjacant						Immond	T			

	State Project Number	Project	Federal Sponsor	Parish	Acres Benefited	Miles of Levee	Construction Completion	Total Budget	Project Description	Planning Unit
Mississippi River Sediment Defreny System - Bayou Duroort	BA-0039	WC	EPA	JEFFERSON, PLAQUEMINES	577	N/A	2010	\$31,631,908	The goal of this project is to createrization 493 acres of brackish marsh by dolwering via pipelino, dredged material from the Micsloopol Reve to an adjacent area within the Brackaria Bash, and blanting marsh vegetation.	2
Rivering Sand Mining/Scofield Island Restoration (Transferred)	BA-0040	HB	NMFS	PLAQUEMINES	234	VN	Transferred	\$40,851,272	The goals of this project are to repark breaches and tidal intels int eh shorefine, reinforce the wristing shorefine with sand, and increases the isonal worth with back barrier marsh creation to increase longerty. This project was transferred to the Bernia Barrier Program for constructions.	2
South Shore of the Pen Shoreline Protection and Marsh Creation	h BA-0041	SP, MC	NRCS	JEFFERSON	211	NA	2012	\$21,639,575	This project involves the construction of approximately 1,000 feet of concrete pile and panel wail and 10,900 feet of rock revetment and pane south shore of The Pen and Bayou Unpoint. Deterated creating was used to create approximately 14 acres of marsh, and hourish an admissione 107 acres of march, within the impound are abounded by the south shore of The Pen, the Barataia Bay Waterway (Durve Cu) amb revealed as Peterine Canal.	2
Lake Hermitage Marsh Creation	BA-0042	TE, SP, MC	USFWS	PLAQUEMINES	438	NIA	2015	\$40,538,484	The goals of this project are to create approximately 438 acres of wallands, reduce Itdal exchange in marshes surrounding Lake Hermitane using material dredged from the Mississipin Rwer	2
West Pointe a la Hache Marsh Creation	BA-0047	MC	NRCS	PLAQUEMINES	203	NA	2015, Transferred	\$15,671,708	The goa of this project is to createriourish marsh using sediment hydraulically dredged from the Mississippi River and purriped via bibeline to the project area. The project was constructed as part of 6A -0042.	2
Barou Dupont Marsh and Ridge Creation Project	BA-0048	MC	NMFS	JEFFERSON	317	NA	2016	\$38,324,646	This masch and ridge creation project will nourish approximately 118 acres of marsh and create 15 acres of marbine ridge by long distance purriphing of Mississipil River sediment.	2
Grand Liard Marsh and Ridge Redoration	8A-0068	HB	NMFS	PLAQUEMINES	502	NIA	2015	\$41,872,785	This project will create 328 about acres of marsh, nourish about 1400 acres of marsh and build about 20,000 f of ridge. The noninect nooi is the montrian choronion informed and restore safet mercine acres on Chenere Romonilio. The noninect theorem	2
Cheniere Ronguille Barrier Island Restoration (Transferred)	BA-0076	HB	NMFS	PLAQUEMINES	398	N/A	Transferred	\$51,145,769	The priors, pairs to manuar incrementance meany and uncervate anni metan con vicinitar and uncertains. The project means of determined designs form metanone of dependision creatisative mean in open water areas and number watering mathes and banks shoelen in project area, intensive dune plantings in the project area were also proposed. This project was transferred to NRCM for constructions.	2
Northwest Turtle Bay Marsh Creation	BA-0125	W	USFWS	JEFFERSON	407	NA	Pending	\$24,448,757	This project involves the creation of approximately 423 acres and nourish approximately 327 acres of marsh using sectiment dredged from T unit B are of Lible Lake. Existing can assolite panks, emergent marsh, and inned segments of containment dives will be used to guide the distilution of the dredged material. Containment dives will be degraded as necessary to reestabilish hydrologic connectively with an eminance eminance and the interface.	2
Bayou Dupont Sediment Delivery- Marsh Creation 3	BA-0164	MC	EPA	PLAQUEMINES, JEFFERSON	302	NN	Pending	\$39,529,163	This project involves dedicated diredging from the Mississippi River to create and nourish 415 acres of marsh.	-
Carrinada Headlands Back Barrier Marsh Creation	BA-0171	MC	EPA	LAFOURCHE	430	NIA	Pending	\$32,284,094	This project involves the creation of approximately 300 acres of bank hander intential marsh and nourishment of 130 acres of emergent marsh behind 3.5 miles of the Caminada beach using material dreaded from the Oulf of Mexico.	2
Bayou Grande Cheniere Marsh and Ridge Restoration	h BA-0173	MC	USFWS	PLAQUEMINES	264	NIA	Pending	\$30,311,402	The goal of this project is to re-create approximately 342 acress of marks habitat in the open water areas and nourish marks along the eastern side of the Bayou Grande Cheniere ridge, as well as create 12 acress offorested coastal ridge habitat.	2
Carryinada Headlands Back Barrier March Credition Increment 2	BA-0193	Ha	EPA	JEFFERSON, LAFOURCHE	444	MA	Pending	\$25,977,805	In addition to having one of the highest shoreline retreat rates in Louisians, Carrinada Headisind has suffered significant shoreline Dissess due to recent hunitraines. As the back and oute contrule to magnetia knowl conversator conversator set into newly formed open water areas. Carrinate Handland disperioration threatens flouvasions of areas our wetlands and runk autrestructure to the north. Including Port Fourchon, LA Highmy 1, and the lower Lafourche levee system. This project will vork a since of back therater interluding Port Fource and convert Lafourche levee system. This project will vork syntergistic aly with Barner interluding mast and create a platform upon mich this baech and dune can rung rate. This project will vork syntergistic aly with existin canada Headiad dures and back paretor marks through each and dure can rung rate. This project will vork syntergistic aly with existin canada Headiad dures and back paretor marks through the can rung rate. This project will work syntergistic aly with existin canada Headiad dures and back barreer marks through the can rung rate.	5
East Leevile Marsh Creation and Nourishment	BA-0194	MC	VVON	LAF OURCHE	482	NIA	Pending	\$34,880,876	The project goal is to create approximately 358 acres and nounish 124 acres of same marsh east of Leevile.	2
Barataria Bay Rim Marsh Creation and Nourishment	BA-0195	MC	NRCS	PLAQUEMINES. JEFFERSON	212	NA	Pending	\$23,545,026	The goal of the project is to create approximately 251 acres of marsh and nourish approximately 266 acres of marsh (517 acres total) with diredged material from Barataria Bay.	2
Caernarvon Diversion Outfall Management	BS-0003-A	WO	NRCS	PLAQUEMINES	802	NIA	2002	\$4,536,000	The primary objective of this project is to enhance marsh by increasing the utilization of freshwater, nutrients, and sediments provided by the Missestion River through the Caemavon Freshwater Diversion Structure.	1
W hite's Ditch Oulfall M anagement (Deauthorized)	BS-0004-A	WO	NRCS	PLAQUEM INES	, MA	NA	Deauthorized	\$32,862	This project was designed to direct the flow of Micsioshpil River nutrients and sociment into the deteriorating wetlands in the Breton Sound Bash that are indidnetly benefied by the Chemistron Freshwaker Diversion project. Because of the failure to secure landingits, the project was officially deauthorized by the CWPPRA. Task Force in January of 1998. This project was reauthorized on the 14th the 2019-12.8151-7.2	1
Grand Bay Crevasse (Deauthorized)	BS-0007	ß	USACE	PLAQUEMINES	NIA	N/A	Deauthorized	\$65,747	Project goals included construction of a rock lined opening through the rocks at the head of the Jurjevich Canal in order to establish a patiment for the thread end estiment into Grand Bar and the automater manufacture treads, nearbox and entimer ve The project was officially automated in the CorePEAL Task Force in July of 1998 because of fandight issues.	÷
Upper Oak River Freshwater Siphon (Deauthorized) Phase 1	1 BS-0009	đ	NRCS	PLAQUEMINES	VIV	NIA	Deauthorized	\$56,476	The primary goal of this project was to reverse the trend of interior marsh deterioration in the project area due to safwater intrusion through inclaisation of a freetwater sphonn and outdat channel. These actagolosis would have provided freetwater publicits, and sediment to entraine marsh health. The project was officially deauthorized by the CVMPPRA Task Force in January of 2003 because of landoothis sevies.	1
Detta Building Diversion North of Fort St. Philip (Deauthorbed)	0 BS-0010	SD	USACE	PLAQUEMINES	543	NA	Deauthorized	\$1,178,640	A diversion channelival be constructed along the left descending bank of the Missessipplicitiver up stream from Fort St. Phate. The channelival be constructed manky through shallow open water and will be into the Missessipplifiker.	÷
Deta Management at Fort St Philip	BS-0011	SNT	USFWS	PLAQUEMINES	267	NIA	2006	\$3,199,948	The objective of the project is to enhance the debe-building process occurring due to the crevesse wit Fort St. Philip St writicial crevesses water construction to other threatman and content threat and anone currently only spatial burbies or transitional forse and how registrated tensors were such and to anance waterment identition and reduce wave energins to one of the revehand basis.	1
White Ditch Resurrection and Outfall Management (Deauthorized)	85-0012	OM, FD	NRCS	PLAQUEMINES	189	NIA	Deauthorized	\$1,535,677	The goal of this project was to promote utilization of freshwater, sediments, and nutrients from Mississippi River by renewing operation of existing siphion and adding another. The projectives deauthorized by the CWP PPA. Task Force in 2013.	1
Barou Lamoque Freshwater Diversion (Transferred)	BS-0013	6	EPA	PLAQUEMINES	620	NIA	Transferred	605'6\$	The goal of this project was to create approximately 620 acres of new marsh, increases the percent cover of aquatic wegetalon, increase the area of shallow open water habitat, and decrease mean sainity in the project area. This CwPPPAA, project was transferred to the CIANP Providence.	-
Bohemia Mississippi Rwer Reintroduction Project (Deauthorized)	BS-0015	FD	EPA	PLAQUEMINES	640	NIA	Deauthorized	\$556,703	The goal of the project was to reinfronce Mississippi River water into adjacent wetlandis through an uncontrolled diversion with a capacity of opportinging 10,000 cfs, trading natural detaic provint and habitist. This project was deadhorized by the CWPPRA Task Form 2013.	1
South Lake Lery Shoreline and Marsh Restoration	1 BS-0016	VP, MC	USFWS	PLAQUEMINES	652	NIA	Pending	\$33,716,987	This project involves diredging sediment to create 396 acres of marsh and restore approximately 32,000 feet of the southern Lake Lery shorekine.	-
Betrandville Siphon (Deauthorized)	BS-0018	ΕD	EPA	PLAQUEMINES	1613	NIA	Deauthorized	\$22,578,208	The goal of the project was to create and sustain marsh through a MIS River reintroduction (2,000 cts maximum siphon) into the open water near Bertrandrille. The project was deauthorized by the CWPPRA Task Force in 2013.	1
Terracing and Marsh Creation South of Big Mar	BS-0024	MC, TE	USFWS	PLAQUEMINES	383	NIA	Pending	\$22,774,368	This project involves the construction of approximately 65,000 linear feel of lemaces (37 acres) with in-sturma (builod) and active suspended sediment. Sediments will be hydraxilicably diedged from Lake Leny and pumped via pipeline to create and reschine automomisments and an enviroit areas.	2
Cameron-Creole Maintenance	CS-0004-A	뚜	NRCS	CAMERON	2602	WA	1997, 2011	\$4,644,371	The project area falls within the Carmeron-Creote watershed monagement area, which has been adversely impacted by sativatier Intrudion and accord osoftments due to channetazion and water revision of the Carabiel Minur. The project provides maintennance for The existing 18 miles of Watershear and fifthe mission structures with its maker up the Carmeron-Creote Watershear Project.	4
Brown Lake Hydrologic Restoration (Deauthorized)	CS-0009	WW	NRCS	CALCASIEU. CAMERON	916	NIA	Deauthorized	\$1,097,828	The project investigated the restoration of the natural hydrology of the Brown Lake area. The project was deauthorized by the CWPPRA Task Force.	4
Sweet LakerWillow Lake Hydrologic Restoration	CS-0011-B	e S	NRCS	CAMERON	247	NJA	2002	\$3,929,152	The project charges are to re-setaisation the shortene (synotopic) prevents short weak short well with interactisation wareway (G/WW), to reduce lake intelling and stid set exchange, and to had encloan and trap oscilment intereded by rebuild march abong the nonthim and northwestern shorelines of Sweet Lake. This project includes construction of rock entrantments on the G/WW to close of the lakes, wepterdin paintings to reduce erosand, and construction of settiment heraces construction of settiments.	4
Cameron Creole Plugs	CS-0017	H	USFWS	MOLLING.	906				The project goal is to restore historic water circulation patterns within the Cameron-Creole W atershed. This objective will be	3

							ONGOING	PROTECTION	N AND RESILU	ONGOING PROTECTION AND RESTORATION SUMMARIES		100 March 100 Ma
CPRA Program	Name	State Project Number	Project Type	Federal Sponsor	Parish	Acres Benefited	Miles of Levee Immoved	Completion	Total Budget	Project Description	Planning Uni	g Unit
CWPPRA	Sabine National Wildlife Refuge Erosion Protection	9 CS-0018	B	USFWS	CAMERON	5542	N/A	1995	\$1,602,656	The goal of this project is to protect 13.000 acres of fresh march from detendation associated with the anticipated fraume of the existing west lever. The original design was to reconstruct 25 miles of exociated lever. This project was reacted pred to reconstruction and .55 miles of exociation plantings was used to reduce ensorin from to attraction.	ee 4	
CWPPRA	W est Hackberry V egetative P tanting Demonstration	CS-0019	٩٧	NRCS	CAMERON	NIA	NIA	1994	\$256,250	The goal of this demonstration project is to reduce marsh encision from interior open water ware veryor using regretation plantings constation of Californa builtush (Schoenophectus californicus). In addition, ware-stilling hay bale fences were utilized to protect the excession on channows.	4	
CWPPRA	Eact Mud Lake Marsh Managerrent	CS-0020	MM	NRCS	CAMERON	1520	N/A	1996	\$6,036,741	The project involves the creation of a hydrobojic regime conductive to restoration, protection, and enhancement of the Mud Lake area using variable rests of water control structures and vagatake advings. Succurval components include culterits with flap gates, how variable rest water informations and hum hank and incarsi of arciation lawar.	4	
CWPPRA	Highway 384 Hydrologic Restoration	CS-0021	MM	NRCS	CAMERON	650	NIA	2000	\$1,586,228	The project purpose is to restore the natural hydrology of the project area and eliminate undestraby high satinfies and severe water fuctuations, tremendoush reduce the potential for future march boses.	4	
CWPPRA	Clear M arais Bank Protection	CS-0022	e B	USACE	CALCASIEU	1067	NJA	1997	\$3,696,088	The project is bracted north of the Guf Intracoadal Waterway (GIWW) approximately 10 miles northwest of Hackborry in Cat calou Parish, Loudisma. The goal of this project is to externed the rock armowed shoreline stabilization by one mile address to the project prevent continued erosion of the GIWW levee and b prevent the encroachment of the GIWW into the marshes north of the project prevent continued erosion of the GIWW levee and b prevent the encroachment of the GIWW into the marshes north of the project and the continued erosion of the GIWW levee and b prevent the encroachment of the GIWW into the marshes north of the project and the continued erosion of the GIWW levee and b prevent the encroachment of the GIWW into the marshes north of the project and the content of the content of the prevent the encreachment of the GIWW into the marshes north of the project and the content of the content of the content of the GIWW into the marshes north of the project and the content of the content of the prevent the encreachment of the GIWW into the marshes north of the project and the content of the content of the prevent the encreachment of the GIWW into the marshes north of the project and the content of the project and the content of the conte	4	
CWPPRA	Replace Sabine Refuge Water Control Structures at Headquarters Canal, West Cove Canal, and Hog Island Guly	CS-0023	WW	USFWS	CAMERON	653	NJA	2001	\$5,709,299	This project invoked the replacement of existing sturtures at Sabine National Widdle Refuge with structures that have substantially greater discharge potential and greater management flexibility.	4	24204
CWPPRA	Perry Ridge Shore Protection	CS-0024	ЗP	NRCS	CALCASIEU	1203	NIA	1999	\$2,289,090	The project reduces takis scour, wave action from boats, and other excessive energy inspacts on interior marshes and the possibility of samater inthusion by placing rep-rap abing low areas on the nontheirn spoil bank of the GinVV from Perry Flagie to Vinton Dianaga canadiar	of 4	
CWPPRA	Plowed Terraces Demonstration	CS-0025	SNT	NRCS	CAMERON	VIN	VIN	2000	\$325,641	Terronia contrins demonstrators project is to develop and demonstrate a non-traditional procedure for constructing earthen terraces In stations open water aroas. Think-optit contractes served as wave salling, sodmont trapping structures and provided a modum tasse for the establishment of emergencies.	tes tm	
CWPPRA	Compost Demonstration (Deauthorized)	CS-0026	WC	EPA	CAMERON	NIA	NIA	Deauthorized	\$255,390	This project was aufinotized to evaluate the effectiveness of using free tirrinings as composible makerial, using composi amended makerial providing a growin medium for energient segatabit and a determining attement rate of the composit amended makerials and the intrimonas. The provider segation for each other cowpreys, task force in Januar 2002.	4	
CWPPRA	Black Bayou Hydrologie Restoration	CS-0027	НК	NMES	CALCASIEU, CAMERON	3594	NUA	2003	\$6,170,284	The project grask are to reduce wetland loss resulting from hydrobigic changes including reduced freshwater inflow, increased magnitude and duration of their furchingins, increased satisfies higher water tracking and exceed and project actioned for construction of goal basins, weits, glugs, and cuerts dospinor for ablev freewater school and functioned of the wetlands and to create a hydrobigic head that hicrososs freshwater from the outfinitize organ waterwork (6MWM) into the wetlands and to create a hydrobigic head that hicrososs freshwater from the outfinites and tracking.	4	
CWPPRA	Sabine Refuge Marsh Creation, Cycles 4-5	CS-0028-4-5	MC	USACE	CAMERON	460	NIA	2015	\$11,838,649	The Sabine Refuge Marsh Creation Cycles 4-5 Project consists of the placement of dredged material from routhe mantenance of the Cakasieu River Ship Channel via temporary pipeline into a marsh creation site within the Sabine National Wigfle Refuge.	16 4	
CWPPRA	Sabine Refuge Marsh Creation, Cycles 1-3	CS-0028-1	MC	USACE	CAMERON	662	NIA	2002, 2010	\$24,627,399	The Sabine Reluge Marsh Creation Cycles 1-3 Project consists of the placement of dredged malerial from routhe maintenance of the Cak asee River Ship Channel via temporary pipeline into a marsh creation site within the Sabine NationalWiddle Reduge.	16 4	
	Black Bayou Culverts Hydrologic Restoration G MVW - Perry Ridge W est		또	NRCS	CALCASIEU	540	VIN	2007		This project involved the construction of 10 box curvers (10 ft x 10 ft) with flap gales in the embanisment of Highway 384 in Carneron Parish.	* .	
CWPPRA	Bank Stabilization Holly Beach Sand Management	CS-0031	b ds	NRCS	CAMERON	330	NA NA	2003	\$14,130,233	The project corress or instanting rock acrug ore can to use on the correct to present outline recourt. The purpose of this project lessing coasta wellands by restoring an annihaming the inlegity and functionality of the remaining chemistriposent ingo the store accorregisted through boach renoutisation of cand fencing vegetatio badings, and innoving of the store restoring. This projectives conjectives outloaded on the 9th PFL as the correlate project Hol	ion 4	
CWPPRA	East Sabine Lake Hydrologic Restoration CU1	CS-0032-CU1	TE, HR	USFWS	CAMERON	281	VN	2009	\$4,944,870	Beach Projectives CS-001. The objectives contribution of the protect and restore area missing, and reacore the historical hypotrologic regime to the Stahne Mational Wildlife Refugio. This version is a complicated using shoreline protection, terras ce, vegetation paintings, and water control structures to reactive addrasers, shoreline ensuing a stankes. However, despin of the water control structures has been discontinued and the emaintion construction funds ware soft to build additional terraser.	to to 4	
CWPPRA	Cameron-Creole Freshwater Introduction	CS-0049	VP, FD	NRCS	CAMERON	473	NIA	Pending	\$14,037,045	The purpose of the project is to restore the function, value and sustainability to approximately 22,247 acres of marsh and open water by inproving hydrobolic conditions via frestwater input, and increasing organic productive.	*	
CWPPRA	Kelso Bayou Marsh Creation and Hydrologic Restoration	C8-0053	M.C., SP	NRCS	CAMERON	274	N/A	Transferred	\$17,882,765	The goal of this project is to restore and protect approximately 319 acres of calically important marsh and the numerous functions provided by those acres. The proposed project will restore a portion of the historic meandering calical acres of approvide direct protection to Louismas State Highway 77. The region's only motthward humicane exactuation route. The project has been transferred by the Critical Pain Constant Protection and Restandation Autimation.	4	
CWPPRA	Cameron-Creole Watershed Grand Bayou Marsh Creation	CS-0054	MC	USFWS	CAMERON	534	NIA	Pending	\$22,918,987	Project goals include creating 609 acres of brackish markh and broutishing 7 acres of brackish markh with dedicabled dredged material from Cakasteeu Lae to beneff fish and welfile resources in the Cameron Praine National Whidlife Refuge and adjac ent brackish door Cakasteeu Lae to beneff fish and welfile resources in the Cameron Praine National Whidlife Refuge and adjac ent brackish	al 4	
CWPPRA	Oyster Bayou Marsh Creation and Terracing	CS-0059	MC, SNT	NMFS	CAMERON	489	NIA	Pending	\$31,031,354	The project consists of creatingmourishing marsh and associated edge habitat and creating terraces in order to reduce wave/wake erosion.	4	
	Cameron Meadows Marsh Creation and Terracing	CS-0066	MC, TE	NMFS	CAMERON	401	NIA	Pending	\$28,935,820	This project modes the construction of 334 acres of marks and the reastabilishment of OB North Bayou val dredged material from the out of Maxico. The project also molves the construction of 35,000 linear feet of ferraces (18 acres) to reduce wind generated wave	ае 4	
CWPPRA	No Name Bayou Marsh Creation and Nourishment	CS-0078	WO	NMFS	CAMERON	497	N/A	Pending		The project goals to create and/or nourish approximately 533 acres of emergent salme marsh within the Cameron Creacile watershed abort the Catassiu Lake im using sediment fromupland disposition shall be of the Catassiu Plane. Sediment would be mined from The immer coasts of the contect are to receive and nonvision approximately 651 acres of salme marsh. Sediment would be mined from	Pa	
CWPPRA	Oyster Lake Marsh Creation and Nourishment	CS-0079	MC	NOAA	CALCASIEU	661	NIA	Pending	\$37,542,910	The primery devices the project way of every other appropriate you want the effect of the project area to the effect of the project area to the reade approximately 41% areas and nourish approximately the effect of soline march. Had of the created acreavel he planted with smooth conductor versionally 41% areas and nourish approximately 185 acress of soline march. Had of the created acreavel he planted with smooth conductors vectoration.	N 4	
CWPPRA	Nutria Harvest for Wetland Restoration Demonstration Coastwide Nutria Control	LA-0003-A	-	USFWS	COASTWIDE	N/A	NA	2003		This project enables the Louisiant Department of Widfe and Fistenes to establish an economic incentive program to tap and control untitia which are confluction to coasta weiland locks by connormand the consumption of nutrin and are controlined Project goals to havest approximately full UTUI nums tate annuals. Damage interferd by nutrina is estimated to be reduced 35 to 43%.	_	MIDE
CWPPRA	Program Floating Marsh Creation	LA-0005	MM	NRCS	TERREBONNE	14963 N/A	NIA	2006	\$68,738,156 \$1.080.891	and damaged areas to reduce by 25,000 to 49,000 acres. The purpose of this domonstration project was to develop and test unique and previously uniteded technologies for creating floating	COASIWIDE	WIDE
	Demonstration Shoreline Protection Foundation Improvements	LA-0006	ds	USACE	VERMILION		NIA	2006	\$1,055,000	marsh made of buowant vebualated maks to antificial islands. The purpose of the project marks gate the potential to improve the foundation of rock dikes. The project was paied with the South Make 1 ages standards point the second more standard to improve the foundation of rock dikes. The project was paied with the South		
CWPPRA	Demonstration Bioengineered Oyster Reef Demonstration	LA-0008	SP	NMFS	CAMERON	4.5	NIA	2012	\$2,316,692	This project is intended to evaluate the Orsterbreak structure to prevent beach erosion and increase habital diversity associated with natural orster reads.	4	
CWPPRA	Sediment Containment System for Marsh Creation Demonstration	LA-0009	MC	NRCS	ST CHARLES	NIA	NIA	2013	\$2,323,073	This demonstration project utilizes an uncovertional sedment containment system for marien creation	Æ	
CWPPRA	Non-rock Alternalities to Shoreline Protection Demo	LA-0016	В	NRCS	JEFFERSON, LAFOURCHE	N/A	NIA	2015	\$6,108,699	Project goals are to demonstrate different alternatives to rock shroneline protection methods by lesting several different products along highly ensine shorelines in areas that are not conductive to construction with rock:	a 2, 3B	æ
CWPPRA	Coastwide Planting	LA-0039	٩٧	NRCS	COASTWIDE	779	NIA	NIA	\$12,689,725	The goals of this project are to facilitate a consistent and responsive planting effort in coastal Louisant as factoble enough to routinely plant on a blage scale and be able to rapidy respond to "Tont store" introlwong stores or otherer damagned seats.	COASTWIDE	WIDE
CWPPRA	Shoreline Protection, Proservation, and Rectoration (SPPR) Panel	LA-0280	ß	NOAA	COASTWIDE	VIN	VIN	VN	\$2,669,829	The proposed demonstrations project would stabilize existing shorehae features and affectuate somether ertera and portentiaty enhance, Interior marches and an accretion fautommeehted the structure. The goal of this project is to provide a cost effective construction aftermative to structure for towness products and the structure. The goal of this project is to provide a cost effective construction aftermative to structure towness products and the structure.	ce COASTWIDE	WIDE
	i.				Ī		ONGOING	PROTECTION	N AND RESTOR	ONGOING PROTECTION AND RESTORATION SUMMARIES		
CPRA Program	Name	State Project Number	Project Type	Federal Sponsor	Parish	Acres Benefited	Miles of Levee Immoved	Construction Completion	T otal Budget	Project Description	Planning Uni	g Unit
CWPPRA	Salvinia Weevil Propagation Facility	LA-0284	01	USFWS	COASTWIDE	26	NN	NIA	\$5,052,748	The goal of this project is to operate a weevil propagation facility in Jeancrette, like that previously operated by LSU in Hourna, to make	Ke COASTWIDE	WIDE

\$5,052,748 \$9,871,230		\$5,052,748	NIA NIA \$5,052,748	26 N/A N/A \$5,052,748	N/A N/A \$5,052,748	26 N/A N/A \$5,052,748	COASTWIDE 26 N/A N/A \$5.052.748
\$9,871,230	\$9,871,230	The project features include the installation of 10,000 linear fr	0000	14.251 230 14051 VIN 142.51	The analosi facture in the installant of a AAA factor of a AAA factor of a AAA factor of	The project features include the included in 0.00 flower f	
This damonadealian main all announces in a fair the structure of the	another 20 years.	\$9,871,230	NUA 1998 \$9,871,230	14381 NVV 1338 \$5,871,250	1998 \$9,871,230	14381 NVA 1998 \$9,871,230	VERMILION 14381 NIA 1968 \$9,871,230
\$92,147		\$92,147	1994; Deauthortzed \$92,147	102 N/A 1994, Deauthorted \$92,147	NIA 1994, Deauthorzed \$92,147	102 N/A 1994, Deauthorted \$92,147	VERMILLON 102 NA 1994, Deauthorzed \$32,147
This project protects the emergent/wetlands of the Crameron Praho National W lattle Refuge adjacent to the OWW, emhances the \$1,227,123 terrespect Wetlands protectiong approximately 2.5 miles of rock after parallel to the existing sout bank, and leminates the encocachment of the OWW in the new relocing		\$1,227,123	NA 1994 \$1,227,123	640 NVA 1994 \$1,227,123	NA 1994 \$1,227,123	CAMERON 640 NVA 1984 \$1,237,123	640 NVA 1994 \$1,227,123
\$1,530,812		\$1,530,812	N/A 2003 \$1,530,812	378 N/A 2003 \$1.530,812	N/A 2003 \$1,530,812	378 N/A 2003 \$1.530,812	CAMERON 378 N/A 2003 \$1.530,812
\$41,777		\$41,777	N/A 1996, Deauthorized \$41,777	1996; Deauthorized \$41,777	N/A 1996, Deauthorized \$41,777	N/A N/A 1996, Deauthorbed \$41,777	IBERIA NA NA 1996, Doauthorbod \$41,777
\$8,913,357		\$8,913,357	N/A 1998 \$8,913,357	511 N/A 1998 \$8,913,357	N/A 1998 \$8,913,357	511 N/A 1998 \$8,913,357	VERMILION 511 NA 1998 \$5,913,357
\$2,390,984		\$2,390,984	2003 \$2,390,984	437 N/A 2003 \$2,390,984	N/A 2003 \$2,390,984	437 N/A 2003 \$2,390,984	VERMILION 437 N/A 2003 \$2,390,984
\$6,342,505		\$6,342,505	N/A 2006 \$6,342,505	2006 \$6,342,505	N/A 2006 \$6,342,505	IBERIA 296 NA 2006 \$6,342,505	296 N/A 2006 \$6,342,505
\$1,303,713		\$1,303,713	NIA Deauthorized \$1,303,713	144 NIA Deauthorized \$1,303,713	NIA Deauthorized \$1,303,713	144 NIA Deauthorized \$1,303,713	CAMERON 144 NIA Deauthorized \$1,303,713
4 \$26,178,463 The purpose of the project is to construct a continuous near shore breakwater abong the Cull of Mexico shoreline, approximately \$26,178,463 \$50,881 feed from Beach Provid to Jusseth Harbor.		\$26,776,463	N/A Pending \$26,776,463	863 N/A Pending \$26,776,463	N/A Pending \$26,776,463	863 N/A Pending \$26,776,463	CAMERON 863 N/A Pending \$26,776,463
\$3,536,830		\$3,536,830	N/A 2004 \$3,536,830	213 N/A 2004 \$3,538,830	N/A 2004 \$3,536,830	CAMERON 213 N/A 2004 \$3,536,830	213 N/A 2004 \$3,538,830
\$23,873,346	9403	\$23,873,346	NVA Pending \$23.873,346	440 NVA Pending \$23,873,346	NVA Pending \$23.873,346	VERMILION 440 NVA Pending \$23,873,346	USFWS VERMILION 440 NMA Pending \$23,873,348
\$11,305,616 p		\$11,305,616	N/A Pending \$11,305,616	495 N/A Pending \$11,305,616	N/A Pending \$11,305,616	495 N/A Pending \$11,305,616	CAMERON 495 NVA Pending \$11,305,616
\$19,673,961	- II	\$19,673,961	N/A 2006 \$19,673,961	844 N/A 2006 \$19,673,961 1	N/A 2006 \$19,673,961 1	VERMILION 844 N/A 2006 \$19,673,961 1	844 N/A 2006 \$19,673,961 1
\$4,438,693		\$4,438,693	Desuthorized \$1,438,693	98 N/A Deauthorized \$4,438,693	N/A Deauthorized \$4,438,693	98 N/A Deauthorized \$4,438,693	CAMERON 98 N/A DeauthorLed \$1,438,093
\$17,144,234	3323	\$17,144,234	Pending/On Hold \$17,144,234	NIA Pending/On Hold \$17,144,234	NIA Pending/On Hold \$17,144,234	IBERUA 088 NUA Pending/On Hold \$17,144,234	888 N/A Pending/On Hold \$17,144,234
\$26.756.528		\$26,756,528	N/A Pending \$28,756,528	401 N/A Pending \$26,756,528	N/A Pending \$28,756,528	401 N/A Pending \$26,756,528	VERMILJON 401 N/A Pending \$26,756,528
\$26,691,833		\$26,691,833	Pending \$26,691,833	393 N/A Pending \$26.691.833	NA Pending \$26,691,833	393 N/A Pending \$26.691.833	CAMERON 393 N/A Pending \$26,691,833
\$50,863,503	842	\$50,863,503	NA 2003 \$50,863,503	9831 NVA 2003 \$50,863,503	N/A 2003 \$50,863,503	9831 N/A 2003 \$50,863,503	PLAQUEMINES 9831 NIA 2003 \$50.953.503
200 0000		state of the first affits a period of threaders monitoring of Markiston operations. The project consists of despending the Invert of the existing 156 foot Weld gap in the MI	In U.J. m Outwater of new memory and the second of intersion is not every one component outside stande on the Ficher adfire a period of intersione monitoring of diversion operations. The project consists of discontinuant the invent of the over web ward with an Mi			I and 72 M addication of based of a second of a full as do	
200 000		In the project consists of deepening the ment of the existing 150 1000 while gain	and a dependent to the form th	stade on the rever arer a period of mension of the rever	dense on the stance of the sta	and (2) Modification of the intermediate full design to accommodate full stands on the RNer after a network of interestive muthining of diversion operations.	
200 002			6 OPLI 1001 001 BUILDING AND IN ANALY AND BUILDING AND IN ANALY AND ANALY ANALY AND ANALY	The project consists of deepening the investor of the existing 150 foot wide g	stable on the RVeer affer a precision of threase monthering of 150 foot whole a The Depending the Invert of the outsing 150 foot whole a	and (2) M odfication of the intermined best provided and (2) M odfication of the intermined best provided and and and and and and and and and an	
\$888,985	\$888,985	NIA 1997 \$888,985 Trivert was lowered to -4.0 feet NOVD. In additiona an existing earther beyond the bank wave enhanged Approximately 125,000 cubit yards additione of the mach share channel to a meaner conduct to a homesen anomesen.	N/A 1987 \$588,985	2087 NIA 1997 \$889,985	NA 1997 \$588,865	PLAQUEMINES 2097 NVA 1987 \$588,885	USACE PLAOUEMINES 2097 NA 1997 \$888,985
\$888,985	\$888,985	1997 \$888,985	NIA 1987 \$588,965	2097 N/A 1997 \$\$89,865	2097 NVA 1997 \$888,985	PLAQUEMINES 2097 NVA 1997 \$885,085	USACE FLAOUEMINES 2097 NVA 1997 \$588,485
\$888,985 \$110,835	\$888,985 \$119,835 \$119,835	1997 \$888,985 Deadhorized \$118,835	NA 1987 \$589,965 NA Deauthorized \$119,855	2097 NVA 1997 \$888,885 1043 NVA Deadhorbed \$119,835	2097 NVA 1997 \$888,985 1043 NVA Dwarthorbed \$119,225	PLAQUEMINES 2097 N/A 1907 \$889,885 PLAQUEMINES 2097 N/A 1907 \$889,885	USACE PLAOUEMINES 2097 N/A 1997 \$1888,885 USACE PLAOUEMINES 2097 N/A 1987 \$1888,885 USACE PLAOUEMINES 1043 N/A Deadhorited \$119,335
\$888,985 \$119,835	\$888,985 \$119,835	1997 \$888,985 Deadhorized \$118,835	NA 1987 \$589,965 NA Deauthorized \$119,855	2097 NVA 1997 \$888,885 1043 NVA Deadhorbed \$119,835	2097 NVA 1997 \$888,985 1043 NVA Dwarthorbed \$119,225	PLAQUEMINES 2097 N/A 1907 \$889,885 PLAQUEMINES 2097 N/A 1907 \$889,885	USACE PLAOUEMINES 2097 N/A 1997 \$1888,885 USACE PLAOUEMINES 2097 N/A 1987 \$1888,885 USACE PLAOUEMINES 1043 N/A Deadhorited \$119,335
\$888,985	\$888,985	1997 \$888,985	N/A 1997 \$888,985	2097 N/A 1997 \$889,965	2097 N/A 1997 \$686,965	PLAQUEMINES 2097 NVA 1997 \$888,865	USACE PLAOUEMINES 2097 NVA 1997 \$588,285
\$50,863,503	\$50,863,503	2003 \$50,863,503	NVA 2003 \$50,883,503	9831 N/A 2003 \$50,863,503	9831 N/A 2003 \$50,863,503	PLAQUEMINES 9831 N/A 2003 \$50,863,503	USACE PLAQUEMINES 9831 NA 2003 \$50.863.503
\$8,913,357 \$2,380,984 \$2,530,984 \$1,303,713 \$2,6,776,463 \$3,536,830 \$2,6,776,463 \$3,536,830 \$2,6,776,463 \$11,306,516 \$11,306,516 \$11,306,518 \$11,442,063 \$11,442,065,065,065,065,065,065,065,065,065,065	\$8,913,357 \$1,390,984 \$2,390,984 \$1,393,713 \$1,303,713 \$2,5,716,463 \$3,536,830 \$2,5,716,463 \$1,305,616 \$11,305,616 \$11,305,616 \$11,305,616 \$1,438,693 \$10,714,734 \$10,714,734 \$10,714,734 \$10,691,833 \$20,691,833 \$50,663,503	1986 \$8,913,357 2003 \$2,913,357 2006 \$1,303,713 Pending \$6,342,605 Deauthorized \$1,303,713 Pending \$1,303,713 Pending \$1,303,713 Pending \$1,303,713 Pending \$1,303,713 Pending \$1,303,713 Pending \$1,305,616 Pending \$2,556,830 Pending \$1,1,305,616 Pending \$1,1,305,616 Pending \$1,1,305,616 Pending \$1,1,305,616 Pending \$1,1,305,616 Pending \$1,1,305,616 Pending \$1,1,41,214 Pending \$1,1,41,214 Pending \$1,1,41,214 Pending \$1,1,41,214 Pending \$1,1,41,214 Pending \$20,05,528 Pending \$20,056,528 Pending \$20,056,528 Pending \$20,053,033 Pending \$20,056,528	NUA 1986 \$8,813,357 NUA 2003 \$2,390,964 NUA 2005 \$5,347,505 NUA 2005 \$5,347,505 NUA 2006 \$1,305,713 NUA Pending \$1,305,713 NUA 2004 \$1,305,713 NUA Pending \$1,305,713 NUA 2004 \$1,305,713 NUA 2004 \$1,305,616 NUA Pending \$11,305,616 NUA Pending \$11,305,616 NUA 2006 \$11,305,616 NUA 2006 \$11,305,616 NUA 2006 \$11,405,136 NUA 2006 \$11,405,136 NUA Pending/On Hold \$11,44,214 NUA Pending \$11,305,616 NUA Pending \$11,405,6236 NUA Pending \$11,42,214 NUA Pending \$11,42,214 NUA Pendiding \$11,44,214,214	511 NA 1968 58,913,357 437 NUA 2003 52,360,964 2965 NUA 2005 51,305713 2965 NUA 2005 51,305713 144 NUA 2004 51,303713 145 NUA Deauthorteid 51,303713 963 NUA Pending 51,303713 963 NUA Pending 51,303713 963 NUA Pending 51,305,916 410 NUA 2004 \$3,556,930 420 NUA Pending \$11,305,616 944 NUA 2006 \$11,305,616 945 NUA Pending \$11,305,616 944 NUA Deauthorteud \$11,305,616 944 NUA Deauthorteud \$11,305,616 944 NUA Pending \$11,42,734 944 NUA Pending \$17,144,734 941 NUA Pending \$17,144,734 </td <td>511 NAA 1968 58,913,357 437 NUA 2003 58,913,357 2916 NUA 2003 52,300,964 2915 NUA 20016 58,342,605 144 NUA 20016 51,303,713 144 NUA Pending 51,303,713 213 NUA Pending 51,303,713 405 NUA Pending 51,303,713 405 NUA Pending 51,305,616 405 NUA Pending 51,305,616 405 NUA Pending 51,305,616 94 NUA Pending 51,305,616 94 NUA Pending 51,305,616 94 NUA Pending 51,305,616 94 NUA Pending 51,443,603 940 NUA Pending 51,443,603 940 NUA Pending 51,443,603 940 NUA Pending 51,443,603 <tr< td=""><td>VERMILLION 511 Nick 1986 88,913,357 VERMILLION 511 Nick 1986 88,913,357 VERMILLION 437 Nick 2003 \$2,300,964 IBERIak 296 Nick 2005 \$1,307,713 CAMEFION 144 Nick Deauthorized \$1,307,713 CAMEFION 144 Nick Deauthorized \$1,305,713 CAMEFION 883 Nick Pending \$1,305,713 CAMEFION 213 Nick Pending \$1,305,816 CAMEFION 213 Nick Pending \$1,305,816 CAMEFION 213 Nick Pending \$1,1305,816 CAMEFION 243 Nick Pending \$1,1305,816 CAMEFION 844 Nick Pending \$1,144,734 VERMILLION 844 Nick Pending \$1,144,734 UERMILLION 844 Nick Pending \$26,691,833 UERMILLION 841</td><td>NRCS VERMILLON 511 NA 1986 \$\$,31,357 NMFS VERMILLON 437 NA 2003 \$1,300,984 USFWS IBERIA 296 NA 2003 \$1,300,731 USFWS IBERIA 296 NA 2006 \$1,300,713 USFWS CAMERON 144 NA 2006 \$1,300,713 NRFS CAMERON 863 NA Pending \$1,300,713 USFWS CAMERON 863 NA Pending \$1,300,7136 USFWS CAMERON 213 NA Pending \$1,300,616 USFWS CAMERON 813 NA Pending \$1,1,300,616 USFWS CAMERON 844 NA 2006 \$1,1,4,234 USC VERMILLON 844 NA 2006 \$1,1,4,234 USC USC NA PendingOn Hold \$1,1,4,234 USACE USERILLON 841 NA PendingOn Hold</td></tr<></td>	511 NAA 1968 58,913,357 437 NUA 2003 58,913,357 2916 NUA 2003 52,300,964 2915 NUA 20016 58,342,605 144 NUA 20016 51,303,713 144 NUA Pending 51,303,713 213 NUA Pending 51,303,713 405 NUA Pending 51,303,713 405 NUA Pending 51,305,616 405 NUA Pending 51,305,616 405 NUA Pending 51,305,616 94 NUA Pending 51,305,616 94 NUA Pending 51,305,616 94 NUA Pending 51,305,616 94 NUA Pending 51,443,603 940 NUA Pending 51,443,603 940 NUA Pending 51,443,603 940 NUA Pending 51,443,603 <tr< td=""><td>VERMILLION 511 Nick 1986 88,913,357 VERMILLION 511 Nick 1986 88,913,357 VERMILLION 437 Nick 2003 \$2,300,964 IBERIak 296 Nick 2005 \$1,307,713 CAMEFION 144 Nick Deauthorized \$1,307,713 CAMEFION 144 Nick Deauthorized \$1,305,713 CAMEFION 883 Nick Pending \$1,305,713 CAMEFION 213 Nick Pending \$1,305,816 CAMEFION 213 Nick Pending \$1,305,816 CAMEFION 213 Nick Pending \$1,1305,816 CAMEFION 243 Nick Pending \$1,1305,816 CAMEFION 844 Nick Pending \$1,144,734 VERMILLION 844 Nick Pending \$1,144,734 UERMILLION 844 Nick Pending \$26,691,833 UERMILLION 841</td><td>NRCS VERMILLON 511 NA 1986 \$\$,31,357 NMFS VERMILLON 437 NA 2003 \$1,300,984 USFWS IBERIA 296 NA 2003 \$1,300,731 USFWS IBERIA 296 NA 2006 \$1,300,713 USFWS CAMERON 144 NA 2006 \$1,300,713 NRFS CAMERON 863 NA Pending \$1,300,713 USFWS CAMERON 863 NA Pending \$1,300,7136 USFWS CAMERON 213 NA Pending \$1,300,616 USFWS CAMERON 813 NA Pending \$1,1,300,616 USFWS CAMERON 844 NA 2006 \$1,1,4,234 USC VERMILLON 844 NA 2006 \$1,1,4,234 USC USC NA PendingOn Hold \$1,1,4,234 USACE USERILLON 841 NA PendingOn Hold</td></tr<>	VERMILLION 511 Nick 1986 88,913,357 VERMILLION 511 Nick 1986 88,913,357 VERMILLION 437 Nick 2003 \$2,300,964 IBERIak 296 Nick 2005 \$1,307,713 CAMEFION 144 Nick Deauthorized \$1,307,713 CAMEFION 144 Nick Deauthorized \$1,305,713 CAMEFION 883 Nick Pending \$1,305,713 CAMEFION 213 Nick Pending \$1,305,816 CAMEFION 213 Nick Pending \$1,305,816 CAMEFION 213 Nick Pending \$1,1305,816 CAMEFION 243 Nick Pending \$1,1305,816 CAMEFION 844 Nick Pending \$1,144,734 VERMILLION 844 Nick Pending \$1,144,734 UERMILLION 844 Nick Pending \$26,691,833 UERMILLION 841	NRCS VERMILLON 511 NA 1986 \$\$,31,357 NMFS VERMILLON 437 NA 2003 \$1,300,984 USFWS IBERIA 296 NA 2003 \$1,300,731 USFWS IBERIA 296 NA 2006 \$1,300,713 USFWS CAMERON 144 NA 2006 \$1,300,713 NRFS CAMERON 863 NA Pending \$1,300,713 USFWS CAMERON 863 NA Pending \$1,300,7136 USFWS CAMERON 213 NA Pending \$1,300,616 USFWS CAMERON 813 NA Pending \$1,1,300,616 USFWS CAMERON 844 NA 2006 \$1,1,4,234 USC VERMILLON 844 NA 2006 \$1,1,4,234 USC USC NA PendingOn Hold \$1,1,4,234 USACE USERILLON 841 NA PendingOn Hold
\$8,913,357 \$8,913,357 \$1,303,713 \$1,303,713 \$1,303,713 \$2,550,830 \$2,550,830 \$1,05516 \$11,305,516 \$11,305,516 \$11,305,516 \$11,305,516 \$11,305,516 \$11,305,516 \$11,305,516 \$11,305,516 \$11,305,516 \$12,516,528 \$20,691,833 \$50,663,503	\$8,913,357 \$8,913,90,964 \$6,745 \$1,303,713 \$1,303,713 \$1,536,820 \$1,508,800 \$1,438,603 \$1,442,24 \$14,428,603 \$1,144,234 \$14,428,603 \$17,144,234 \$26,56,528 \$26,661,633 \$50,863,503	1988 \$8,913,357 2003 \$2,380,984 2005 \$2,380,984 2005 \$5,340,984 Pending \$1,303,713 Pending \$1,303,713 Pending \$2,6,764,63 2004 \$3,536,830 Pending \$2,6,764,63 Pending \$2,6,734,63 Pending \$1,305,616 Pending \$1,305,616 Pending \$1,4,34,63 Pending \$1,4,4,234 Pending \$26,691,933 Pending \$26,691,933 Pending \$26,691,933 Pending \$26,691,933 Pending \$26,691,933 Pending \$26,691,933 Pending \$26,693,503 Pending	NUA 1980 \$8,13,57 NUA 2003 \$2,390,964 NUA 2005 \$2,390,964 NUA 2005 \$2,390,964 NUA 2005 \$2,390,964 NUA 2006 \$1,307,713 NUA Pendbng \$1,303,713 NUA Pendbng \$1,303,713 NUA 2004 \$1,303,713 NUA Pendbng \$1,303,630 NUA 2004 \$1,305,616 NUA Pendbng \$1,305,616 NUA Pendbng \$1,305,616 NUA Pendbng \$1,4,33,693 NUA Deauthorbud \$1,4,4,73,46 NUA Pendbng \$1,4,4,73,46 NUA Pendbng \$1,4,4,73,46 NUA Pendbng \$1,4,4,73,46 NUA Pendbng \$1,4,4,4,73,46 NUA Pendbng \$1,4,4,73,46 NUA Pendbng \$1,4,4,73,46 NUA Pendbng \$1,4,4,73,46	511 NA 1988 \$4,9,13,57 437 NUA 2003 \$2,390,964 2916 NUA 2003 \$2,390,964 2916 NUA 2003 \$2,390,964 2916 NUA 2003 \$2,390,964 2916 NUA 2006 \$1,303,713 963 NUA Deadhorcad \$1,303,713 963 NUA 2004 \$1,303,713 963 NUA 2004 \$1,303,713 940 NUA 2004 \$1,303,713 9410 NUA 2004 \$1,303,713 941 NUA Pending \$1,303,713 941 NUA Pending \$1,44,234 943 NUA PendingOn Hold \$1,1,44,234 941 NUA PendingOn Hold \$1,1,44,234 943 NUA PendingOn Hold \$1,1,44,234 943 NUA PendingOn Hold \$1,1,44,234 943 NUA PendingOn Hold \$1,	511 NA 1988 \$49.1.3.57 437 NA 2003 \$2.390.984 236 NA 2003 \$2.390.984 236 NA 2005 \$5.340.984 244 NA 2005 \$5.390.984 144 NA Deauthorteed \$1.303.713 86.3 NA Pending \$1.303.713 86.3 NA Pending \$1.303.713 86.3 NA Pending \$1.303.713 96.3 NA 2004 \$1.305.616 91.40 NA Pending \$1.305.616 92.4 NA Pending \$1.305.616 94.4 NA Pending \$1.305.616 94.4 NA Pending \$1.305.616 94.4 NA Pending \$1.438.683 94.1 NA Pending \$1.438.683 94.1 NA Pending \$1.438.683 94.1 NA Pending \$1.438.683	VERMILLON 611 NA 1886 88.81.3.57 VERMILLON 437 NA 2003 \$2.300.964 IBERIA 256 NA 2005 \$2.300.964 IBERIA 256 NA 2005 \$5.347.505 CAMERON 144 NA 2006 \$5.347.505 CAMERON 213 NA Pending \$1,007.13 CAMERON 213 NA Pending \$1,005.16 VERMILLON 240 NA Pending \$1,05.616 VERMILLON 440 NA Pending \$1,1.30.616 VERMILLON 443 NA Pending \$1,1.30.616 VERMILLON 446 NA Pending \$1,1.30.616 VERMILLON 844 NA Pending \$1,1.30.616 VERMILLON 450 NA Pending \$1,4.33.40 VERMILLON 984 NA Pending \$1,4.4.23.40 VERMILLON 401 NA Pending	NRCS VERMILLON 511 NA 1980 \$\$,31,357 NMFS VERMILLON 437 NA 2003 \$2,300,984 USFWS IBERIA 296 NA 2003 \$2,300,984 USFWS IBERIA 296 NA 2006 \$2,300,984 USFWS IBERIA 295 NA 2006 \$1,303,713 USFWS CAMERON 863 NA 2004 \$1,303,713 USFWS CAMERON 863 NA Pending \$1,303,713 USFWS CAMERON 863 NA Pending \$1,303,713 USFWS VERMILLON 863 NA Pending \$1,303,713 USFWS VERMILLON 844 NA 2004 \$1,35,50,830 USACE VERMILLON 844 NA 2006 \$1,4,4,2,44 USACE VERMILLON 844 NA 2006 \$1,4,4,24 USACE VERMILLON 840 NA 2006 <
\$41,777 \$41,777 \$8,913,357 \$2,390,984 \$2,390,984 \$2,303,713 \$1,303,713 \$1,303,713 \$26,76,463 \$11,305,616 \$12,005,616\$12,005,616 \$12,005,616\$\$12,005,6	\$41,777 \$8,913,357 \$8,913,357 \$2,300,084 \$2,300,084 \$1,303,713 \$1,303,713 \$1,303,713 \$1,303,713 \$1,303,713 \$1,463 \$11,305,616 \$11,305,616 \$11,305,616 \$11,305,616 \$11,305,616 \$126,661,833 \$26,661,833 \$26,661,833	1996; Deauthorzed 41,777 1996; Deauthorzed \$41,777 1996; Deauthorzed \$41,777 2003 \$2,390,984 2003 \$2,390,984 2005 \$2,390,984 2005 \$2,390,984 2005 \$1,303,713 Pending \$1,4,43,463 Pending \$1,4,43,693 Pending \$2,6,691,933 Pending \$2,6,691,933	NIA 1996; Doauthoriced 41,777 NuA 1996; Doauthoriced 56,913,357 NuA 2003 55,913,357 NuA 2003 55,913,357 NuA 2005 55,913,357 NuA 2005 55,913,913 NuA 2004 55,913,913 NuA Pending 51,303,713 NuA Deauthoriced 51,303,713 NuA Pending 51,303,713 NuA Deauthoriced 51,303,713 NuA Pending 51,303,713 NuA Pending 51,1305,616 NuA Pending 51,1305,616 NuA Deauthoriced 51,305,616 NuA Deauthoriced 51,305,616 NuA Deauthoriced 51,436,633 NuA Pendingu 51,442,34 NuA Pendingu 51,442,34 NuA Pendingu 51,442,34 NuA Pendingu 51,442,34 NuA Pendingu	No. No. 1996. Deauthorized 54.777 511 NuA 1996. Deauthorized 54.777 511 NuA 1996. Seathorized 54.777 437 NuA 2003 52.390.984 437 NuA 2003 52.390.984 295 NuA 2005 52.300.984 213 NuA 2005 51.305.713 863 NuA 2004 \$1.303.713 863 NuA Pending \$1.303.713 863 NuA Pending \$1.303.713 863 NuA Pending \$1.303.713 863 NuA Pending \$1.303.713 864 NuA Pending \$1.303.713 818 NuA Pending \$1.438.693 818 NuA Pending \$1.438.693 818 NuA PendingOn Hold \$1.744.234 818 NuA PendingOn Hold \$1.744.234 818 NuA PendingOn Hold	NIA NIA 1986. Doauthorized 54.177 511 NuA 1986. Doauthorized 54.177 511 NuA 1986. Doauthorized 54.177 437 NuA 2003 53.360.864 236 NuA 2005 53.390.864 236 NuA 2005 53.390.864 236 NuA 2006 51.303.713 86.3 NuA 2004 51.303.713 86.3 NuA Pending 51.303.713 86.3 NuA 2004 51.305.616 410 NuA 2004 53.536.830 410 NuA 2004 53.536.830 410 NuA 2004 53.536.830 410 NuA Pending 51.1.305.616 84 NuA 2004 53.536.830 844 NuA Pending 51.36.53.546 81 NuA Deauthorized 51.43.26.55.54 81 NuA Pending 51.44.23.4 <td></td> <td>MRCS MA M</td>		MRCS MA M
		1994 1994 1996 1996 1998 1998 1998 1998 1998 1998 1998 1998 1998 2003 2004 Pending	NUA 1994 NUA 1994 NUA 2003 NUA 2003 NUA 2003 NUA 1996 NUA 2003 NUA 2003 NUA 2003 NUA 2003 NUA 2003 NUA 2003 NUA Pending	640 NA 1944 378 NIA 1944 NIA 2003 1 511 NIA 2003 1 511 NIA 2003 1 511 NIA 2005 1 511 NIA 2005 2 611 NIA 2005 2 114 NIA 2005 2 235 NIA 2005 2 663 NIA Pending 2 410 NIA Pending 2 425 NIA Pending 2 983 NIA Pending 2 983 NIA Pending 2 983 NIA Pending 2 983 NIA Pending 2	640 NA 1944 378 NIA 2003 71 NA 2003 51 NA 2003 236 NA 2003 243 NA 2003 144 NA 2004 863 NA Pending 410 NA 2004 435 NA 2004 440 NA 2004 84 NA 2004 84 NA 2004 84 NA 2004 84 NA Pending 98 NA Pending 9831 NA Pending 9831 NA Pending	CAMERON 640 NA 1944 CAMERON 378 NA 1944 IBERIA NA 71 NA 2003 IBERIA NA 1966. Deauthorzed 2003 2003 VERMILION 511 NA 7005 2003 VERMILION 511 NA 2003 2003 IBERA 295 NA 2003 2004 CAMERON 863 NA 2004 2004 CAMERON 363 NA Pending 2004 CAMERON 863 NA 2004 2004 CAMERON 863 NA Pending 2006 2004 CAMERON 863 NA Pending 2004 2004 2004 2004 2004 2005 2004 2005 2005 2005 2005 2005 2005 2005 2005 2005 2005 2005 2005 2005 2005 2004 2006 2006	USFWS CAMERON 640 NA 1944 NRCS CAMERON 378 NA 1994 NRCS CAMERON 378 NA 2003 NRCS VERMILUON 511 NA 2003 NRCS VERMILUON 511 NA 2003 NRCS VERMILUON 511 NA 2003 NRCS VERMILUON 437 NA 2003 USFWS IBERIA. 236 NA 2006 NRCS CAMERON 144 NA 2006 1 USFWS CAMERON 213 NA 2006 1 USFWS CAMERON 240 NA 2006 1 USFWS CAMERON 244 NA <td< td=""></td<>
	1994 1996, Deauthorteod 1996, Deauthorteod 1996, Deauthorteod 2003 2004 Pending Pending Pending Pending Pending Pending Pending		NUA NUA NUA NUA NUA NUA NUA NUA NUA NUA	640 N/A 378 N/A N/A N/A 511 N/A 511 N/A 511 N/A 512 N/A 295 N/A 295 N/A 295 N/A 294 N/A 144 N/A 863 N/A 984 N/A 98 N/A 98 N/A 98 N/A 98 N/A 98 N/A 983 N/A 983 N/A	640 NA 378 NA 378 NA NIA NA 511 NA 511 NA 437 NA 144 NA 235 NA 235 NA 437 NA 235 NA 863 NA 440 NA 863 NA 98 NA 983 NA 9831 NA	CAMERON 640 NA CAMERON 378 NA CAMERON 378 NA CAMERON 378 NA UERMILLON 511 NA VERMILLON 511 NA VERMILLON 511 NA UERMILLON 295 NA CAMERON 295 NA CAMERON 244 NA CAMERON 213 NA UERMILLON 213	USFWS CAMERON 640 NMA NRCS CAMERON 378 NMA NRCS CAMERON 378 NMA NRCS UBFNA NA NA NRCS VERMILION 511 NMA NMFS VERMILION 511 NMA NMFS VERMILION 437 NMA USFWS IBFRA 295 NMA NRCS CAMERON 447 NMA USFWS CAMERON 213 NMA USFWS CAMERON 213 NMA USFWS CAMERON 495 NMA USFWS CAMERON 844 NMA USFWS CAMERON 819 NMA USFWS CAMERON 393 NMA USFWS CAMERON 393 NMA USFWS CAMERON 393 NMA USACE VERMILION 401 NMA USACE VERMILION 393 NMA USACE VERMILION 393 NMA USACE PLANCILION 393 NMA
	1996, Doou 1996, Doou 1996, Doou 1996, Doou 2000 Deautho Deautho Deautho Pendi Pendi Pendi Pendi		NUA NUA NUA NUA NUA NUA NUA NUA NUA NUA	640 NA 378 NA 378 NA 511 NA 296 NA 213 NA 214 NA 213 NA 2140 NA 863 NA 98 NA 98 NA 333 NA 9831 NA	640 NA 378 NA 378 NA 511 NA 437 NA 295 NA 213 NA 440 NA 863 NA 495 NA 98 NA 410 NA 98 NA 983 NA 9831 NA	CAMERON 640 NM CAMERON 378 NM CAMERON 378 NM IBERIA NM MM VERMILION 511 NM VERMILION 511 NM VERMILION 437 NM VERMILION 437 NM CAMERON 144 NM CAMERON 295 NM CAMERON 213 NM CAMERON 213 NM CAMERON 213 NM CAMERON 363 NM CAMERON 364 NM CAMERON 363 NM VERMILION 344 NM VERMILION 344 NM VERMILION 343 NM CAMERON 343 NM CAMERON 343 NM	USFWS CAMERON 640 NMA NRCS CAMERON 378 NMA NRCS CAMERON 378 NMA NRCS CAMERON 378 NMA NRCS VERMILION 511 NMA NRFS VERMILION 437 NMA NMFS VERMILION 437 NMA USFWS CAMERON 144 NMA NRFS CAMERON 213 NMA USFWS CAMERON 213 NMA USFWS CAMERON 440 NMA USFWS CAMERON 446 NMA USFWS CAMERON 884 NMA USFWS CAMERON 884 NMA USFWS VERMILION 818 NMA USFWS CAMERON 883 NMA USACE VERMILION 401 NMA USACE VERMILION 401 NMA USACE VERMILION 883 NMA USACE VERMILION 393 NMA USACE PLANCINICI 393 NMA
VP NRCS VERMILLION 102 SP USFWS CAMERON 102 HR NRCS CAMERON 840 HR NRCS CAMERON 840 SP NRCS CAMERON 840 PH NRCS CAMERON 840 SP NRCS CAMERON 840 HR NRCS VERMILION 378 HR NRCS VERMILION 511 HR USFWS VERMILION 511 HR NRCS VERMILION 511 PHR NRCS CAMERON 893 SP USFWS CAMERON 893 HR.MC USFWS CAMERON 893 MC NKS CAMERON 893 MC USFWS CAMERON 893 MC USFWS CAMERON 893 MC USFWS CAMERON 893 MC USFWS CAMERON 893	vp NRCS VERMILLION Sp USFWS VERMILLION HR NRCS CAMERON FP NRCS CAMERON Sp NRCS CAMERON FP NRCS CAMERON FP NRCS CAMERON FP NRCS CAMERON FP NRCS VERMILION HR NRCS CAMERON HR NRCS CAMERON FP USFWS CAMERON SP USFWS CAMERON MC USFWS CAMERON<	SP NRCS VERMILLION VP NRCS VERMILLION SP USFWS VERMILLION HR NRCS VERMILLION SP NRCS VERMILLION HR NRCS CAMERON SP NRCS CAMERON HR NRCS CAMERON SP NRCS CAMERON HR NRCS CAMERON HR NRCS CAMERON SP NMFS CAMERON NRCS VERMILLION N NRCS CAMERON N NRCS CAMERON N NRCS CAMERON N NRCS CAMERON N NRCS VERMILLON N NRCS VERMILLON N NRCS CAMERON N NRC NRCS CAMERON NRC NRCS CAMERON NRC NRCS CAMERON NRC NRCS </td <td>SP NRCS VP NRCS SP USFWS SP USFWS SP NRCS SP USFWS MC USFWS MC USFWS MC USFWS MC NRCS MC NRCS MC NRCS MC NRCS MC NRCS</td> <td>M C C C D S S S S H H S S S S S S S S S S S S S</td> <td>M W C L L L L L L L L L L L L L L L L L L</td> <td></td> <td></td>	SP NRCS VP NRCS SP USFWS SP USFWS SP NRCS SP USFWS MC USFWS MC USFWS MC USFWS MC NRCS MC NRCS MC NRCS MC NRCS MC NRCS	M C C C D S S S S H H S S S S S S S S S S S S S	M W C L L L L L L L L L L L L L L L L L L		
ME-00000 VP NRCKS VERMILLION 102 ME-00010 SP USFWS CAMERON 940 ME-0011 HR NRCS CAMERON 940 ME-0012 SP NRCS CAMERON 978 ME-0012 SP NRCS CAMERON 978 ME-0012 SP NRCS CAMERON 978 ME-0013 SP NRCS VERMILLON 378 ME-0014 TE NMFS VERMILLON 378 ME-0014 TE NMFS VERMILLON 379 ME-0014 HR NRCS VERMILLON 379 ME-0014 HR NRCS CAMERON 379 ME-0014 HR NRCS CAMERON 379 ME-0013 SP NRCS CAMERON 373 ME-0014 SP NRCS CAMERON 373 ME-0012 SP USFWS CAMERON 341 ME-0013 RE	ME-0010 VP NRCS VERMILLION ME-0010 SP USFWS VERMILLION ME-0011 HR NRCS CAMERON ME-0011 HR NRCS CAMERON ME-0012 SP NRCS CAMERON ME-0013 SP NRCS CAMERON ME-0013 SP NRCS CAMERON ME-0014 TE NMFS VERMILON ME-0013 SP NRCS CAMERON ME-0014 TE NMFS VERMILON ME-0015 HR NRCS CAMERON ME-0016 HR USFWS CAMERON ME-0017 HR NRCS CAMERON ME-0013 SP USFWS CAMERON ME-0014 SP USFWS CAMERON ME-0012 SP USFWS CAMERON ME-0013 SP USFWS CAMERON ME-0013 SP USFWS CAMERON ME-0013 <td>ME-0004 SP NRCS VERMILION ME-0008 SP USFWS VERMILION ME-00108 VP NRCS VERMILION ME-0011 ME-0012 SP USFWS VERMILION ME-0012 SP NRCS VERMILION NRCS ME-0012 SP NRCS CAMERON N ME-0013 SP NRCS CAMERON N ME-0014 HR NRCS CAMERON N ME-0013 SP NRCS CAMERON N ME-0014 HR NRCS CAMERON N ME-0013 SP NMFS VERMILON N ME-0014 HR NRCS CAMERON N N ME-0013 SP NMFS CAMERON N N ME-0014 HR NRCS CAMERON N N N ME-0013 SP USFWS CAMERON N N N</td> <td>ME-0004 SP NRCS ME-0009 SP USFWS ME-0011 HR NRCS ME-0012 SP USFWS ME-0013 SP NRCS ME-0014 HR NRCS ME-0013 SP NRCS ME-0014 TE NMCS ME-0014 TE NMCS ME-0014 TE NMCS ME-0014 TE NMCS ME-0014 HR USFWS ME-0015 SP NMCS ME-0016 SP NMCS ME-0017 HR NCS ME-0018 SP NMCS ME-0019 SP NMCS ME-0011 HR NCS ME-0012 SP NMCS ME-0013 SP NMCS ME-0021 SP NMCS ME-0023 SP NMCS ME-0024 SP NMCS ME-0023 SP <td< td=""><td>mE-0004 SP ME-0009 SP ME-0011 HR ME-0012 SP ME-0014 TE ME-0015 HR ME-0016 SP ME-0013 SP ME-0014 TE ME ME-0013 SP ME-0014 HR ME ME-0013 SP ME ME-0014 TE ME ME-0013 SP ME ME-0013 SP ME-0013 SP MC ME-0014 TE MC ME-0013 SP MC ME-0020 MR.MC MC ME-0021 SP MC ME-0023 FD MC ME-0023 MC MC ME-0023 MC</td><td>ME-0004 SP ME-00003 VP ME-00003 SP ME-0011 HR ME-0012 SP ME-0013 SP ME-0014 HR ME-0013 SP ME-0014 HR ME-0013 SP ME-0014 HR ME ME-0013 SP ME ME-0014 HR ME ME-0013 SP ME ME-0013 SP ME ME-0023 SP ME-0023 SP ME ME-0023 SP ME ME-0023 SP ME ME-0023 SP ME ME-0023 ME ME</td><td>ME-0004 ME-0009 ME-0011 ME-0012 ME-0012 ME-0013 ME-0014 ME-0014 ME-0018 ME-0018 ME-0018 ME-0020 ME-0023 ME-0015 ME-0016 ME-0016 ME-0016 ME-0012 ME-0012 ME-0012 ME-0012 ME-0012 ME-0013 ME-0003 ME-0013 ME-003 ME-003 ME-003 ME-003 ME-003 ME-003 ME-003 ME-003 ME-003 ME-003 ME-003 ME-003 ME-003 ME-003 ME-0</td><td></td></td<></td>	ME-0004 SP NRCS VERMILION ME-0008 SP USFWS VERMILION ME-00108 VP NRCS VERMILION ME-0011 ME-0012 SP USFWS VERMILION ME-0012 SP NRCS VERMILION NRCS ME-0012 SP NRCS CAMERON N ME-0013 SP NRCS CAMERON N ME-0014 HR NRCS CAMERON N ME-0013 SP NRCS CAMERON N ME-0014 HR NRCS CAMERON N ME-0013 SP NMFS VERMILON N ME-0014 HR NRCS CAMERON N N ME-0013 SP NMFS CAMERON N N ME-0014 HR NRCS CAMERON N N N ME-0013 SP USFWS CAMERON N N N	ME-0004 SP NRCS ME-0009 SP USFWS ME-0011 HR NRCS ME-0012 SP USFWS ME-0013 SP NRCS ME-0014 HR NRCS ME-0013 SP NRCS ME-0014 TE NMCS ME-0014 TE NMCS ME-0014 TE NMCS ME-0014 TE NMCS ME-0014 HR USFWS ME-0015 SP NMCS ME-0016 SP NMCS ME-0017 HR NCS ME-0018 SP NMCS ME-0019 SP NMCS ME-0011 HR NCS ME-0012 SP NMCS ME-0013 SP NMCS ME-0021 SP NMCS ME-0023 SP NMCS ME-0024 SP NMCS ME-0023 SP <td< td=""><td>mE-0004 SP ME-0009 SP ME-0011 HR ME-0012 SP ME-0014 TE ME-0015 HR ME-0016 SP ME-0013 SP ME-0014 TE ME ME-0013 SP ME-0014 HR ME ME-0013 SP ME ME-0014 TE ME ME-0013 SP ME ME-0013 SP ME-0013 SP MC ME-0014 TE MC ME-0013 SP MC ME-0020 MR.MC MC ME-0021 SP MC ME-0023 FD MC ME-0023 MC MC ME-0023 MC</td><td>ME-0004 SP ME-00003 VP ME-00003 SP ME-0011 HR ME-0012 SP ME-0013 SP ME-0014 HR ME-0013 SP ME-0014 HR ME-0013 SP ME-0014 HR ME ME-0013 SP ME ME-0014 HR ME ME-0013 SP ME ME-0013 SP ME ME-0023 SP ME-0023 SP ME ME-0023 SP ME ME-0023 SP ME ME-0023 SP ME ME-0023 ME ME</td><td>ME-0004 ME-0009 ME-0011 ME-0012 ME-0012 ME-0013 ME-0014 ME-0014 ME-0018 ME-0018 ME-0018 ME-0020 ME-0023 ME-0015 ME-0016 ME-0016 ME-0016 ME-0012 ME-0012 ME-0012 ME-0012 ME-0012 ME-0013 ME-0003 ME-0013 ME-003 ME-003 ME-003 ME-003 ME-003 ME-003 ME-003 ME-003 ME-003 ME-003 ME-003 ME-003 ME-003 ME-003 ME-0</td><td></td></td<>	mE-0004 SP ME-0009 SP ME-0011 HR ME-0012 SP ME-0014 TE ME-0015 HR ME-0016 SP ME-0013 SP ME-0014 TE ME ME-0013 SP ME-0014 HR ME ME-0013 SP ME ME-0014 TE ME ME-0013 SP ME ME-0013 SP ME-0013 SP MC ME-0014 TE MC ME-0013 SP MC ME-0020 MR.MC MC ME-0021 SP MC ME-0023 FD MC ME-0023 MC	ME-0004 SP ME-00003 VP ME-00003 SP ME-0011 HR ME-0012 SP ME-0013 SP ME-0014 HR ME-0013 SP ME-0014 HR ME-0013 SP ME-0014 HR ME ME-0013 SP ME ME-0014 HR ME ME-0013 SP ME ME-0013 SP ME ME-0023 SP ME-0023 SP ME ME-0023 SP ME ME-0023 SP ME ME-0023 SP ME ME-0023 ME ME	ME-0004 ME-0009 ME-0011 ME-0012 ME-0012 ME-0013 ME-0014 ME-0014 ME-0018 ME-0018 ME-0018 ME-0020 ME-0023 ME-0015 ME-0016 ME-0016 ME-0016 ME-0012 ME-0012 ME-0012 ME-0012 ME-0012 ME-0013 ME-0003 ME-0013 ME-003 ME-003 ME-003 ME-003 ME-003 ME-003 ME-003 ME-003 ME-003 ME-003 ME-003 ME-003 ME-003 ME-003 ME-0	
ME-0000 VP NRC05 VERMILLION 102 ME-0010 SP USFWS CAMERON 640 102 ME-0011 HR NRC5 CAMERON 640 378 ME-0012 SP NRC5 CAMERON 640 378 ME-0012 SP NRC5 VERMILLION 378 NIA ME-0013 SP NRC5 VERMILLION 378 NIA ME-0014 TE NMFS VERMILLION 378 NIA ME-0014 TE NMFS VERMILLION 379 144 ME-0015 SP USFWS CAMERON 379 144 ME-0016 SP USFWS CAMERON 373 144 ME-0017 HR NMFS CAMERON 373 144 ME-0012 SP USFWS CAMERON 373 144 ME-0012 SP USFWS CAMERON 373 144 ME-0022 SP	ME-0000 SP VP NRCS VERMILLION ME-0010 SP USFWS CAMERON VERMILLION ME-0011 HR NRCS CAMERON VERMILLION ME-0013 SP USFWS CAMERON VERMILLION ME-0013 SP NRCS CAMERON VERMILLION ME-0013 SP NRCS CAMERON VERMILLION ME-0014 TE NMFS CEMERON VERMILLION ME-0013 SP NRFS CEMERON VERMILLION ME-0014 TE NMFS CEMERON VERMILLION ME-0013 SP NMFS CEMERON VERMILLION ME-0014 TE NMFS CEMERON VERMILLION ME-0013 SP USFWS CEMERON VERMILLION ME-0014 SP USFWS CEMERON VERMILLION ME-0023 FD USFWS CEMERON VERMILLION ME-0023 FD USACE CEMERON </td <td>ME-0004 SP NRCS VERMILION ME-0009 SP VSFWS VERMILION ME-0019 VP NRCS VERMILION ME-0011 HR NRCS VERMILION ME-0012 SP USFWS CAMERON ME-0012 SP NRCS CAMERON ME-0013 SP NRCS CAMERON ME-0014 TE NRCS CAMERON ME-0013 SP NRCS CAMERON ME-0014 TE NMCS CAMERON ME-0015 SP NRCS CAMERON ME-0016 SP NRCS CAMERON ME-0017 HR NRCS CAMERON ME-0017 HR NRCS CAMERON ME-0018 SP NMRS CAMERON ME-0019 SP NRCS CAMERON ME-0012 SP NRCS CAMERON ME-0012 SP USTVS CAMERON ME-0012</td> <td>ME-0004 SP NRC3 ME-0008 SP USFWS ME-0008 SP USFWS ME-0011 HR NRC5 ME-0012 SP USFWS ME-0013 SP USFWS ME-0013 SP NRC5 ME-0013 SP NRC5 ME-0014 TE NMF5 ME-0013 SP NRC5 ME-0014 TE NMF5 ME-0013 SP NRC5 ME-0014 SP NRC5 ME-0020 HR,MC USFWS ME-0021 SP URC5 ME-0023 FD NRC5 ME-0023 SP USC6 ME-0023 FD NRC5 ME-0023 SP USC6 ME-0023 MC USC6 ME-0023 MC USC6 ME-0023 MC USC6 ME-0023 MC USC6 ME-0023 MC</td> <td>me outs sr me outs we outs sr me outs me outs sr me outs me outs sr me outs sr sr me outs</td> <td>ME-0004 SP ME-0008 SP ME-0011 HR ME-0012 SP ME-0013 SP ME-0014 HR ME-0013 SP ME-0014 HR ME-0013 SP ME-0014 HR ME-0015 HR ME-0017 HR ME-0017 HR ME-0017 HR ME-0017 HR ME-0018 SP ME-0019 SP ME-002018 SP ME-00218 SP ME-0022 SP ME-0023 FD ME-0023 MC ME-0023 MC ME-0023 MC ME-0023 MC ME-0023 MC ME-0023 MC ME-0023 MC</td> <td>ME-0004 ME-0009 ME-0011 ME-0012 ME-0012 ME-0013 ME-0013 ME-0013 ME-0013 ME-0013 ME-0020 ME-0020 ME-0023 ME-0033 ME-003</td> <td></td>	ME-0004 SP NRCS VERMILION ME-0009 SP VSFWS VERMILION ME-0019 VP NRCS VERMILION ME-0011 HR NRCS VERMILION ME-0012 SP USFWS CAMERON ME-0012 SP NRCS CAMERON ME-0013 SP NRCS CAMERON ME-0014 TE NRCS CAMERON ME-0013 SP NRCS CAMERON ME-0014 TE NMCS CAMERON ME-0015 SP NRCS CAMERON ME-0016 SP NRCS CAMERON ME-0017 HR NRCS CAMERON ME-0017 HR NRCS CAMERON ME-0018 SP NMRS CAMERON ME-0019 SP NRCS CAMERON ME-0012 SP NRCS CAMERON ME-0012 SP USTVS CAMERON ME-0012	ME-0004 SP NRC3 ME-0008 SP USFWS ME-0008 SP USFWS ME-0011 HR NRC5 ME-0012 SP USFWS ME-0013 SP USFWS ME-0013 SP NRC5 ME-0013 SP NRC5 ME-0014 TE NMF5 ME-0013 SP NRC5 ME-0014 TE NMF5 ME-0013 SP NRC5 ME-0014 SP NRC5 ME-0020 HR,MC USFWS ME-0021 SP URC5 ME-0023 FD NRC5 ME-0023 SP USC6 ME-0023 FD NRC5 ME-0023 SP USC6 ME-0023 MC	me outs sr me outs we outs sr me outs me outs sr me outs me outs sr me outs sr sr me outs	ME-0004 SP ME-0008 SP ME-0011 HR ME-0012 SP ME-0013 SP ME-0014 HR ME-0013 SP ME-0014 HR ME-0013 SP ME-0014 HR ME-0015 HR ME-0017 HR ME-0017 HR ME-0017 HR ME-0017 HR ME-0018 SP ME-0019 SP ME-002018 SP ME-00218 SP ME-0022 SP ME-0023 FD ME-0023 MC	ME-0004 ME-0009 ME-0011 ME-0012 ME-0012 ME-0013 ME-0013 ME-0013 ME-0013 ME-0013 ME-0020 ME-0020 ME-0023 ME-0033 ME-003	

										1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	State Project Number	Project Type	Federal Sponsor	Parish	Acres Benefited	Miles of Levee Irrunwed	Completion	T otal Budget		Planning Unit
Spanish Pass Diversion (Deauthorized)	MR-0014	SD	USACE	PLAQUEMINES	433	NIA	Deauthorized	\$310,151	The goal of this project was to create emergent marsh by diveting Mississippi River waker and sedment from Grand Plass into open water receiving areas. The project was deauthorized by the CWPPPLA Task Force in 2013.	2
Venice Ponds Marsh Creation and Crevaces (Inactive)	MR-0015	MC	EPA	PLAQUEMINES	511	VIN	Inactive	\$23,442,176	The goals of the project are to create, maintain, nourish, and replenish existing deteriorating wellands through decix ated dredging, hydrologic restoration, creviasion construction, and creviasion enhancement. The project was designated as hactive by the CWPPRA Taxek from 2013.	2
Fritchie Marsh Restoration	PO-0006	H	NRCS	ST TAMMANY	1040	NIA	2001	\$2,201,674	theor users a serie of the project is to achieve remediation of the causes of welfland loss in the area and to improve habitat for wildlife and The provise of the project is to achieve remediation of the causes of welfland loss in the area and to improve habitat for wildlife and the series by encreasion the finw of freedy water thin the merch and managed the outflau	+
V lotet Freshwater Distribution (Deauthorized)	PO-0009-A	Ħ	NRCS	ST BERNARD	247	N/A	Deauthorized	\$128,626	The objective of the outfail management plan was to optimize the use of thestwater and sediment supplied by the existing sphons by managing water flow through the larea. This would be accomplicated by reducing channelized flow and routing the diverted flow access instalties or through shalow water areas instead of through larger channels. This project was officially deauthorized by the CWPPRA. Task For an 2001 heater of flavourd issues.	-
Bayou Sauvage National Vv tidlife Refuge Hydrologic Restoration, Phase 1	PO-0016	НК	USFWS	ORLEANS	3800	NIA	1396	\$1,680,193	The Lake Ponthartain Hunrisare Protection fevee isolates units 3 and 4 of the Bayou Saurage Walfile Refuge from the surrounding masts constant estabases a large trestwater impoundment. This project established a means for removing the access water during the screeks.	
aBranche Wetland	PO-0017	MC	USACE	ST CHARLES	487	NIA	1994	\$3,934,000	The project involved drodping sediments from Lake Pontchartrain to create vegetated wetlands in an area roughly bounded by I-10, Lake Pontchartrain, Bayou Lakranche.	1
Bayou Sauvage National vv itdiffe Refuge Hydrologic Restoration, Phase 2	9100-04	нк	USFWS	ORLEANS	1280	NIA	1997	\$1,692,552	The construction of U.S. Highway 90, cands, caload lines, and Lake Poncthatrian hunticane protection levees has impounded the measin line housed rease. Project features consider thio 30-enth immed, which operate to maintain water levels at U.S. feet above or biotewmatch elevation to immonity vordistican growth in the introlect area.	1
Mississippi River Gulf Outliet (M RGO) Disposal Area Marsh Protection	PO-0019	MM	USACE	ST BERNARD	755	NA	1999	\$318,445	The objective of this project is preceive vegitation vertilants by repairing the lateral and rear disce of the Mississippi River Guif Outlet (MRGO) descenses are as a solution of the outperformance of the index of the Mississippi River Guif Outlet (MRGO) descenses areas, Rearest to a 28,000 linear bortion date, the mississippi River and and were were as a solution of the precision of the index of the mississippi of the date of the outperformance of the mississippi River and the date of the dat	Ť.
Red M ud Demonstration (Deauthorized)	PO-0020	MC	EPA	ST JOHN THE BAPTIST	VIN	VIN	Deauthorzed	\$520,129	The project cases alimbread to determise whether efforming, proticities as as perjoration of removing counties, could be utilized as margest-received medical in contraction with composition and margin application. Construction of experimential units, were helphol to 1997, however, due to unserved-staronblements fill mediestal, linets, and contraminants in the worker source, the project was officiably do address for the CARDEAT zets. Economism and mounts 2001.	1
Eden Isles East Marsh Rectoration (Deauthorized)	PO-0021	뚜	NMFS	CAMERON	1453	NIA	Deauthorized	\$39,025	The province of the contraction of the international activity managing water levels to maximize marks creation. There was a chapter imbedded to react activity the planning the planning phase of this project. Consequently, the project was officially deadhindeed by the CWPAT Task from a manuar 1988.	+
Bayou Chevee Shoreline Protection	PO-0022	SP	USACE	ORLEANS	212	VIN	2001	\$2,589,403	The project consists of constructing a 5,000-foot earthen, erodible dike to contain dredged material from Lake Pontcharrian. The project created about 150 acres of marsh.	1
Hopedale Hydrologic Restoration	PO-0024	Ĥ	NMFS	ST BERNARD	106	VIN	2005	\$2,281,287	This project is designed to abole side-specific wetland loss by replacing collapsed curverts installed in the 1950s near Vactoskey. Loudisans, and pableorment of these structures would allow more rapid drainage of the area, improve fibriehies access, reduce wetland hose sides and ended samples area of timesch.	
Barou Bierrvenue Pump Station Diversion and Terracing (Deauthorized)	PO-0025	MC	NMFS	TERREBONNE	442	N/A	Deauthorized	\$212,152	This protect intended to containe the use of existing purre stations with the construction of a diversion channel, water control structures, and earthen terraces planted with smooth coorginass (Spantna attention). This would force the flow of freshwaker and numents through a detentionated marks area to abate de-spacing acters to set. The project was officially desumproted by the CWPPRA Task Force had not able to be abated on the observation was the too officially desumproted by the CWPPRA Task Force had an official desume construction was obtermined to be too costin.	Ŧ
Opportunistic Use of the Bonnet Care Spliway (Deauthorzed)	PO-0026	FD	USACE	PLAQUEMINES	177	NIA	Deauthorized	\$83,932	The project intended to abade high safing' stress on the vegetaded wetlands surrounding Lake Pontchartan. This objective was to be accomplished intrough the waveal of prior is pointed care. Softwas surviuent and units plays introve project was setting the rel above no none than 4,000 eutoric relations and in the New from the new rulo Lake Pontchartan. This ponject was officially deauthoursed by the CWPPPA Task f orce in October of 2007 due to uncertainty of benefits and lack or landowner surgord.	4
Chandeleur Islands Marsh Restoration	PO-0027	٨Þ	NMFS	ST BERNARD	88	N/A	2001	\$839,927	The objective of this project was to accelerate the recovery period of barrier isand areas overwashed by Humisan G exorges in 1998 Hiroughi vegation paintings. The overweah areas, which encourage 584 arrss be bocked at 22 sites afong the Chandeleur Sound Side of the sisterior Chan are pointed with smooths condistass CBarrina affeminio.a)	÷
LaBranche Wetlands Terracing, Planting, and Shoreline Protection (Deauthorized)	PO-0028	٩٧	NMFS	ST CHARLES	489	WA	Deauthorized	\$306,836	Located stong Lake Pontchattan, the project inhended to reduce entergent marsh toss along the shoreline by restoring and creating 468 acres through marsh terracting, shoreline protoction, and vegetation planting. This project was officially deauthorbed by the CWPPRA Task Force in October 2007.	-
Lake Borgne Shoreline Protection	PO-0030	SP	EPA	ST BERNARD	229	N/A	2008	\$28,908,775	The goal of this project is to maintain the integrity of the nanow strip of marsh that separates Lake Borgne from the Mississippi River Cour Jourde micro). This shart helps protect the communities of the Beach. Yossey, and integrable from react explosure to ake were entropy and administrations. The goalways accompariated through construction of a continuous proteination of	÷
Lake Borgne and MRGO Shoreline Protection (Deauthorized)	P0-0032	SP	USACE	ST BERNARD	66	NIA	Deauthorzed	\$1,089,193	The objective of this project was to preserve the marsh between Lake Bongne and the Mississippi River Guif Outlet (MRGO) by construction a nork date along the Lake Bongne stonetine and the nontherin bank of the MRGO. The Lake Bongne segment of this project was constructed by the USACE with funds from the 3th supplemental, and the remaining portion of the project was deautivitied by the USAT safe from the 3th supplemental, and the remaining portion of the project was	1
Goose Point/Point Platte Marsh Creation	PO-0033	MC	USFWS	ST TAMMANY	436	NIA	2009	\$15,979,442	The goal of this project is to create about 437 acres of marsh and nourish about 114 acres of degraded marsh abing the northern shoreline of Lake Pointchartrain.	1
Alligator Bend Marsh Restoration and Shoreline Protection	PO-0034	TE, VP. SP	NRCS	ORLEANS	121	NIA	Pending	\$29.716.052	The goal of this project is to provide choreine protection in Lake Borgne, starting at Allgator Point, using rock dikes and vegetative plantings	
aBranche East Marsh Creation	PO-0075	MC	NRCS	ST CHARLES	715	NIA	Pending	\$33,555,033	Project leatures consist of the creation of 729 acres of marsh and the nounishment of 202 acres of existing marsh using dedicated diredation from Lake Ponthinardah.	1
Bayou Bonfouca Marsh Creation	PO-0104	MC	USFWS	ST TAMMANY	424	NIA	Pending	\$29,273,984	The primary goal of the project is to create 533 acres and nourish 42 acres of low salinity brackish marsh in open water areas adjacent to Bayou Bonfouca with sediment pumped from Lake Pontchartain.	1
LaBranche Central Marsh Creation	PO-0133	MC	NRCS	ST CHARLES	131	NIA	Pending	\$43,409,208	Project features include the creation of 762 acres of marsh and the nourishment of 240 acres of existing marsh using dedicated dredging from Lake Pontchartrain.	1:
hell Beach South Marsh reation	PO-0168	MC	EPA	ST BERNARD	634	VIN	Pending	\$27,946,159	The project would create and/or nourish 634 acres (ac) of omergent brackish march to stabilize the landform seperating Lake Bergne from the MPGO. 343 ac of new march would be created and 291 ac nourished using filtimateria from Lake Bergne.	1
New Orleans Landbridge Shoreline Stabilization and Marsh Creation	PO-0169	MC, BS	USFWS	ORLEANS	271	NIA	Pending	\$17,778,172	The project goal is to restore and enhance 211 acres of brack lish marsh (169 acres marsh creation and 102 acres nourishment) and to enhance 15,340 linear feet of storeline through the construction of an earthen shoreline berm.	1
Fritchie Marsh Creation and Terracing	PO-0173	MC	NOAA	ST TAMMANY	366	N/A	Pending	\$27.020,763	The project goal is to create and/or nounish approximatery 340 acrea of energent brackish marsh and create 36,510 feet of earthen Hursues Coe managent acres) in the Fritchie Marsh area between the city of Stolell and the Ropoles using sedment from Lake Poortchater	+
Bayou La Loutre Ridge Restoration and Marsh Creation	PO-0178	MC	NRCS	ST BERNARD	167	MA	VIV	\$31,012,138	The goal of the project is to relate an approximate 31.7 acre indge feature with material. from bucket dredging (18-you L.a. Loutre. Additionally dredgind material from Lako Borgne will create 163 acres of march and nourish approx. 268 acres abing Lena Lapoon	+
St. Catherine Island Marsh Creation and Shoreline Protection	PO-0179	MC	USFWS	ORLEANS	219	NJA	NIA	\$25,324,715	The primary goals of this project are to protect a portion of the Lake Pontchantrain shoreline and restore/protect interior marsh habitat with the placement of dredged material	2
Grand Bayou Hydrologic Restoration (Deauthorized)	TE-0010	HR	USFWS	LAFOURCHE	199	N/A	Deauthorized	\$1,452,357	The objective of the project was to maintain emergent wetlands in this area by providing supplemental freatwater, numents, and sedment from the Alchraidains Alme Guilf Intraceostal Warkeway (50MM). Project Realmase included a water control structure on Bayer pointe au Ohien just south of fis junction will B. Luois Canai, the releast forture on Grand Bayou, and the pipeline structure on Grand Bayou Canai. The Super Interacent examinement by the CWMP10. All sakes force	ЗА
Faigout Canal Planting Demonstration	TE-0017	vP	NRCS	TERREBONNE	NIA	NIA	1996	\$206,522	For this demonstration project, smooth conginass (Spartina alternitions) suited to the salinity and habitattype of the Fagouri Canal area was planted along the canal and protected by sktypes of wave stilling devices.	ЗА
T imbalier Island Planting Demonstration	TE-0018	٩٧	NRCS	TERREBONNE	VIV	NN	1996	\$300,492	F or this demonstration project, approximately 7,300 linear feet of sand fences were installed and vegetation surfed to the sainity and backets true of Tenholder island use clusted in serversi acces on the island to true sand and indice using and users ensure	ЗЛ

3A 3A 38 3A 3A 34 38 3A S BE with indicipities and manipation, we must approximate the second and minimum set to reacter the crossed durines and wermanics. 16 The molect topleter as to reacter the crossed durines and wermanics. 16 The molect topleter and compared on the Poont aut Fer manipating our memory and of point memory and of cand word and minimum were also installed to stabilize the seried and minimum were were also installed to stabilize the seried and minimum were assessed without reducing throm the fraction transformed to reduce setwater intrusion into the Poont aut Fer manipating of throm molect manipating and multipation manipating of throm molect manipating of throm molect manipating and multipation molect manipating and multipating manipating and multipating and multinter multintrease of the multipating and multipating and multipa The project created and restored beaches and hack issued marches on Whitskey Island. The project created 5/3 acres of back stand be more and filling the broachest at Couple Nouvello (1 st acres). The Initia wegetalion pathing with created 5/3 acres of back stand alternificar) on the bar store was completed in July 1988 and additional wegetalion seedingblainflow was compared. Spring 2000. The object we of the project store Nouvello (1 st acres). The Initia wegetalion seedingblainflow was compared to the project store was completed in July 1988 and additional wegetalion seedingblainflow was compared. The object we of the project store was completed in July 1989 and additional wegetalion seedingblainflow was completed to Spring 2000. The object were addressed in the project store was completed transformation manuary protect trans. *Commented* the store object store was completed in July 1988 and additional wegetalion seedingblainflow and setulation 2 minimum transmission transments in this project could be fore addressed and include the store and was an under transformed and setulation and with ac dogramotido breakingtion. fer and wattle haetat quality is restoring natural north-pouth wat water the network release to the set and the network of problem reset by the chronoc release to the set. Because of problem resets is the set set and the network hain. A provintially so the set set and set of match watch in which watch set to build a retaining unre which watch in him relevant ware also instaled to stablice the sand and minimize which driven ware also instaled to stablice the sand and minimize which driven educed marsh loss rates and in ation, the project was officially of ation, the project was officially of the coastal dures and d wore dredged from Lake Pet platform. Sand fences and ve-ONGOING PROTECTION AND RESTORATION SUMMARIES Miles of Construction Total Budget Project Description Limmond Compilion \$8,762,416 \$6,826,754 \$10,774,974 \$6,810,133 \$7,600,150 \$7,106,586 \$5,544,367 \$3,720,721 \$106,960 \$99,625 1999 1997 1998 1999 2000 1997 2001 Des NIA VN NIA VN MN MN N/A N/A N/A N/A NA Acres Benefited 449 474 1913 N/A 215 375 603 667 297 VIN ≸ 異 NN ¥ TERREBON TERREBON TERRE Š Federal USACE EPA NRCS NMFS EPA NMFS NMFS NMFS EPA NRCS AMP State Project Project Number Type BH, MC HR /P, MC SP BH, MC H HB MC H H e. MW TE-0023 TE-0024 TE-0020 TE-0022 TE-0025 TE-0026 TE-0031 TE-0027 TE-0030 TE-0019 Lake Chapeau Sediment Inpu and Hydrologic Rectoration, Point Au Fer Island W est Belle Pass Headland Restoration Isles Dernieres Restoration Trinity Island anal Plugs Intent Marsh Fencing Demonstration (Deauth Island Canal Hyd East Timballer Restoration Demonstration East Timballer Restoration Isles Demiere East Island VuFer CWPPRA CPRA Prog

The project aims to introduce freshwater from the HNC through an enlarged Bayou Petton channel across Bayou Grand Callou and Intrough a galaet channel.		chafalaya River to Terrebonne wetlands.	-						of ee as so of e	دع <u>م</u> وح	20 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	90 91 10 19 10 19 10 10 10 10 10 10 10 10 10 10 10 10 10	20 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9		20 0.26 55 55 54 1 B
	The supress of this project was to find the weak stands projection weak value on the bese of the CVPPRA, with from of projection and validation needs generately covered by VPDA. The project components consisted of implementing, a bomplem water management stands were need set and available projection of the project projection stands of the Victual Baye River to Terrebonne wellands consistence were needed and available projection provide date of the projection stands provide River to Terrebonne wellands stands were needed and available projection provide date of the projection stands provide River to Terrebonne wellands and the Victual River and available projection provide date of the projection stands provide River to Terrebonne wellands and the stand stands and available provide and the stands provide the stands of the stands and available provide the stand stands well and the stand stands of the stands and available provide the stands and the stand stands and available provide the stand stands and the stand stands of the stands and stands and the stands and stands and the stand stands are stand as a stand stand stands and the stand stands and stands and stands and stands and stands are stands and as a stand stands and the stand stands and stand	OF LIFE CAME FISH LOOK FORCE BI 1330.	rus proper was one way promoneed or net vert in the mask needen 1930. The policie for of the policie field of whet freemane from nonth were in 1930. The source to reduce inundation of ready markst areas in overall Penrichand Back in Tereborne Parish.	The source was one and construction for the struct as its source at its source that are source and project areas coupled with protection the source to reduce hundration of retailements from from horth western to sourch each and project areas coupled with protection measures to reduce hundration of retailements areas in overall external assist in retailormers and project areas coupled with protection measures to reduce hundration of retailements areas in overall external assist in retailormers and project areas coupled with protection and and areas all mough the project would have beneficial 434 acress at a cost of 56, 430, 410, the cost of the project was estimated to be considerably higher than onghrady plannoi, making a teonomically unustrialing. The project was of the project was estimated to be considerably higher than onghrady plannoi. Trady is constant as a cost of 56, 430, 410, the cost of the project was estimated to be considerably higher than onghrady plannoi. Trady is economically unustrialing. The project was of the project was estimated to be considerably the cost of the comparison plannoi. The project was officially dependence of the project was estimated to be considerably higher than onghrady plannoi. Trady the project was officially dependence of the cost of the project was estimated to be accordence of the cost of the comparison trady unustrialing. The project was officially dependence of the CvMPPA. Trady Force to the cost of the constant accounties are accounted to the project was officially dependence of the constant accounted to be accounted to be accounted to the constant accounted to the project was officially dependence of the constant accounted to the second test accounted to the project was officially dependence of accounted test accounted to the accounted test accounted to the accounted test accounted to the accounted test accounted te	The solute was one and rear rearrance in the service is as well as a service as a service and project areas coupled with protection inseques to request introducts to forder the metal from from north vesterin to south eastern sub project areas coupled with protection inseques to request introducts for determined and an interventing as a service as a service and a service and and a service as a service and and a service and as a consistent of the and official remains and and a service and and a result of the and official whether areas in vester and a service as a service and service as a ser	The obtent work to mean ensummers for the server is also bourh exactern sub-project areas coupled with protection The obtent work to mean ensummers for the server areas and the server areas and parts areas coupled with protection the server of the project is other fragments from from moch weeken to south exactern sub-and parts and parts areas atomain the project work of the adversarial server areas and a cost of the prove and parts and parts are accurate and approximate the project work of the adversarial server areas and a cost of the project work estimated to a constrained to a provide the project is to doug the event and the Creake Board Churk and parts and parts are accurate and and and and and and and and and and and	The observe reast interant issuence to prime the view of the set also in the observed project areas coupled with protection interactives to request interant protection and reaches in overal to south existent sub project areas coupled with protection interactives to request introduct is to don't called market inform morth-weaking to a called market. Annuopher to request involution of realed market information the "Creek Deat Chink" and placing in the Avocs a listind area. Annuopher to regionary provide the Deatest in overal dis, suit, such a case runne project was estimated and the Annuopher to ophrady plannod, making it contronrish workshold. The project was onfinated and placing in the Avocs a listind area. Annuopher to ophrady plannod, making it controrrish workshold. The project was onfinated workshold and the Annuopher of this project would be developed on the known of this known. The object morished and interaction, herehow reduction, and transcatading the armonic and the more remains of the structure in a notice the development of this known dranscatading paratity. These markets the interaction and the place of this project in object the development of this known dranscatading prastity. These markets the place of the normalianous of transmarks in lung of the propertients, and and transcatading paratity these markets plugs thin the him- montant. Project monitoring is intended to determine the effects of water more content and codiment avaibable on the him- metal subscription of the annual and fourther as a hindew (1923). The project morkets the association and a subscription of a water control structure in the southern bank of Lake De5-ade. The structure in reases the mission of antise and extertion subscriptions and a water control of a view of a structure and on the market. This polect morkets a reast and extertion the markets and the market in a dordon, storette protection was annot be and annes and extertion structure in the andore and work as and and a store water and estertion and an	The above mean unsummer regrammer to make in words at most of the second participation of the second participation of regrammer regrammer and the second participation of the second participation of the second participation of the second participation by the second participation of the second participation of the second participation by the second participation of the second participation of the second participation of the second participation by the second participation of	The obtext new unsame unsame to prime an end of the set in some in some the some the some new unsame unsame unsame unsame the information of the set in some the some information of the set in the set in unsame information of the some set in the set in the set in the set in the some set is an end and an end of the some set in the some set in the some set in the some set is an end and set in the project considerable of fragde markets in unsame siftion the "create Boat Chark and placing it in the Aroc's taken and placing it is the some set is an end and an end of the project was set in a constant and provide the project was set in a constant and provide the project was set in a constant and provide the project was set in a constant and provide the some set is an end of a set in the project was set in a constant and provide the some set in the some set is an end of a set in the some set in the some set is an end of a set in the project mode set is the constant and the some set is an end of a set in the set in the set in the some set in a some set in a some set in a set in the set	The douter has unsear unsear unsear unsear uses to have a hand to be provided with protect the douter both unsear unsear unsear unsear to have a hand to be an experiment of an experiment of the brock	The object we off the project end ender internet in the Annual in South statem cub project areas coupled with protection The answer were arreaded in the advectory and an interval in the interval interval in the advect a faind area. The project considered fine to donct relate interval interval into the "creake Boar" considered fin the Avoc's faind area. The project considered fine the interval interval interval into the "creake Boar" considered fin the Avoc's faind area. The project considered fine the interval into the "creak Boar" considered fin the "creake Boar" considered fin the "Avoc's faind area. The object considered fine project is to induce the development of thick-mail, continuously floating mass if then a thin any faint mass in plays and the state and and an induced the advection mainting and an induced the advection induced and an advection in advection in advection, and massimal polating mass if the advect a faind area. The object and interval polating the advection in advection in advection in an objection and objection of hands adding self-met find the project involved the advection in advection in advection and advection advection advection advection advection of advection adding self-met find the project involved the advection in advection in advection advectin advection advection advection advection advection	The observe and uncommunication are not according to the action of the cost of the action and according the observe of the action of the actio	The objects we show the manu resonance are made and the set in these and the resolution and project areas coupled with protection interaures to werker inundation of feativitient sets in werker in south vesterin and set in the resolution and and area. The project consister of the beneficial transmitterion the "Caree Boal Churk" and placing it in the Avoic a Island area. The project consister of the project curve of registering and set in the resolution resolution to the resolution project consister of the project store and the areas in versel in courts. The project was resolution to the resolution project consister and the area of the resolution of the kink in the resolution and the resolution of the area. The optimality is project to project and area of the resolution and the resolution and the resolution of the resolution of the project provided and the resolution of the resolution of the resolution and and the resolution of the resolution of the project and subscription of the resolution of the	The objects have submered accounted with provident from month vector in the accounter bards. The optional consistent accounter of the active frame accounter of the accounter bards. The project consistent accounter accounter of the constraints are accounted to accounter accoun	The approximant examinant examination with the framment in south vactum sub project areas coupled with protection measures to restruct and examination in the examination in the example and and and and the project consister to induct allor interfandiant from interment in south vactum sub project areas coupled with protection measures to restruct examination of register and areas in the example and and and and and and and and an organize project to induce the development of thick-mat, continuously floating in the invoice a plag in the marken and and an organize project is to induce the development of thick-mat, continuously floating marken, that-maken plag in the marken in solid and and and and and and and and and an
Jurpose of this project was to link the wellands protectio ation needs generally covered by WRDA. The project of our for the Verset Basin, and evaluation a link from more	The project was officially deauthorized by the CWPPRA Task Force in 1998	biblective of the project is to divert freshwater flow from n sures to reduce inundation of fragile marsh areas in over	the state of the s	zroject conserved or une perencial use or orreogeo marens ugh the project would have beneficed 4.34 acres at a co tri fhan orginally planned, maiding it economically unjusti 98.	up the process of the process of the process makes up the project would have betterk and are of the object ratios ophraby planned, making a conternicably unlust gal.	The project consisted on the behavior and period non-period manuphine project consisted on the behavior and period on the pro- highton than onlighting paramed, making a continuicable unlust the object period of the development of the development of the the object period of the development of the period contransmissions of transmissions and unlighting faith and the object period of the development of the period of the solution and the entities of by Hunris and Juan (1995) stated outling and the entities of by Hunris and Juan (1995) stated outling and the entities of by Hunris and Juan (1995) stated outling and the and brown physicing the deviction dight seletiment. The other parameters are beneficiary as	Then contract constrate of the reventer and are or to recenter and upper the project would have treated at a target and the project would have treated at a target and the area of the project is to induce the development of the algorithm of the area to the area of the contract and the area of the broken to the area of the broken the area of the broken the area of the broken the area of the broken the broken the area of the the area of the broken the broken the broken the broken the contract in the area of the broken the b	This original process of the service of neuroper nates upth the project would have benefited 4.3 excess at a con- trains originally planned, making a economicably unlust ga. Biolecthe of this project is to induce the development of the project monitoring is intended to dotermine the effort of the project monitoring is intended to dotermine the effort biefthe of this project varies (close the breach belowers biefthe of this project varies (close the breach belowers biefthe of this project varies (close the breach belowers biefthe of this project varies (close the breach belowers of a close and marsh habdat and knythering the douttour of a close and marsh habdat and knythering the douttour of a threat shore construction of a water control attrut of A thriatisty a three water and segiment introduced i mark flain of britte direct catalons of baseline and a well a set clained a flatter of the direct a testion of a well a set clained a fulle well and a break of a bottom.	The project constant of the enters ususe to receiver in assessmin of Amount man obtainably planned, making it connected with a cost at a cost at a matter man obtainably planned, making it connected with the 1980. The object be of this project value in the development of thick- connected manner of the angle of the development of thick- reconnected manner of the angle of the development of thick- reconnected manner of the angle of the development of thick- float. The object be of this project value is the advected manner and an subsequent at the material of of detarmine the effect of this data advances of anosch hadde and binghtmeng the datatura and outfort setting of anosch hadde and binghtmeng the datatura in adding setting of the the construction of a value of any data setting of the the onstruction of a value of any data setting of the advect and advances of the the material of the struction and an advect and asset the data setting of the advect and advect and as threaker advect and advect and advect and as advect the advect and advect and advect and as threaker advect and advect and advect and advect and as threaker advect and advect and advect and advect and as advect the advect and advect and advect and advect and as the settiation threaker advect as advect and advect and as threaker advect and advect and advect and advect and advect the advect and advect and advect and advect and advect and advect the advect and advect and advect advect advect advect and and advect the settiation of the under the settion advect and advect and advect advect and advect advect advect advect advect advect advect and advect advect advect advect advect advect advect advect advect and advect advect adve	In sprote conserved on the order work are one orgenerate mask. Influght the project conserved on the order work are as a local higher than orginally planned, making a economicably unlust in 1988. The object here of this project is to induce the development of i commandments of treatments including plantation, including the object here of this project is to induce the development of the object here of this project is not been threading. The here adding and sobre-quently enlanged by threading, here the between this policy and sobre-quently enlanged by threading. The adding adding a sobre-quently enlanged by threading the adding adding a sobre-quently in the area sobre variable. The adding threading adding approximation that the analy here adding threading and a wells. The policit franch and the admet is a minimal and a walk threading threading and by the provesting and a well threading the adding and by the provesting adding threading threading the adding and by the provesting adding the threading the adding and by the provesting adding the threading threading and by the provesting adding the threading threading and by the provesting adding the threading threading and by the adding threading the adding threading adding threading and by the adding threading threading threading adding applicit to the adding threading the adding threading threading threading threading threading threading threading threading threading adding threading threading threading threading threading threading threading threading threading threading threading threading threading threading adding threading threading threading threading threading threading adding threading th	The project constance or the enterk rate use to receipen interact and in a more than objinably planned, manipulation and an an and and	The project consisted on the befink table of one bogater hasts minupit the project consisted on the befink table of one bogater hasts and the transmission of transmission and the development of it minupits the project monitoring table and and the development of the programmer of transmission and the development of the project monitoring table and project and the and the project monitoring table and project and the distant. Project monitoring table and bott and bott and the project monitoring table and bott and bott and bott and subsequently enlarged by Huntra are Juan (1995). This project monitoring table and bott and bott and bott and distant. Project monitoring table and bott and bott and distant. Project monitoring table and bott and bott and and subsequently enlarged by Huntra are Juan (1995). This project and manual table and bott and bott and a weat transmission and and and a transmission and and a set transmission and and and a transmission and and a set transmission and and and the and bott and bott and a set transmission and and a transmission and and a set transmission and and and transmission and and a set transmission and and and transmission and and a set transmission and and and transmission and and a set transmission and and transmission and and a set transmission and and transmission and and a set transmission and the areamaticater and and a set transmission and a set transmission and and and transmission and and a set transmission and and and and transmission and a set transmission and and and transmission and and and and and and and and and an	Then orbitrary provides the beneficial and provide or one optication of the project consisted or the spontaneous making a control provident of the molecular control of the project making the project monitoring to internet of a control provide making the control making the contre	The project conserve on the extention are one constraints with anough the project is to induce the development of community the project is the material of the development of community the project is the material of the community the project is the material of the community of the development of the community of the development of the community of the community the community of the development of the project is the development of development of	Then contract conserved the recenter care of ore couper mases, then contracts for service the care of the care contractically unlust than contractive or this pointed. If is in outcour and the development of it inandoms of the atministic methods in a contractication. Therefore, the mandoms of the atministic method is of determine the effect in a contract and method is of determine the effect is Project monitoring is interactive and colored atministic is Project monitoring is a contractication of the atministic is a contract and method is of determine the effect of a contract and method is of determine the effect and subsequently enlarged by Huntra are Luis (1995). Is a contract and method is of determine the effect and subsequently enlarged by Huntra are Luis (1995). Is a contract and method is a contractication of atminist a substructure and a subsequently enlarged by Huntra and a vest a contract and method is a contractication of atminist atministration of a method is a contractication of a sub- atemportant and a threated and to develop the method atministratication and and the contract and another atminister attract cannor an provider is interactive atminister attraction or a statist vestoring and a substruction and a vestor attract cannor and threated to be atminister attraction attract cannor and the officient and and and and and and attract cannor and a substruction and attracted to an atminister attraction and a statistic attraction and an attraction the and attractication of an evolution and and and and and and attraction at an and attract and balance at the attraction attraction at an attract and a solution and and and and attraction at an attract and and and and and and and and attraction at an attraction and a solution and and and attraction at an attract and and a down and and attraction at an attraction and and a solution and and attraction at an attraction and and a solution attraction attraction at an attraction attraction and and and attraction at anotical and an
	\$3,452 strategy for The proje	\$17,628,814 The objection of the objecti		\$66,869 higher that in 1998.	10 1021	۲ ۲	1000	3357 7387							
		\$17,62		87											
	Deauthorized	2011		Desuthorized	Deauthorized 2000	Desuthorized 2000 2008	Desuthorzed 2000 2008 2011	Desuthorzed 2000 2008 2011 2011 2004	Desuthorzed 2000 2008 2011 2011 2004 2003	Desuthorized 2000 2008 2011 2004 2004 2003 Transferred	Desuthorzed 2000 2008 2004 2004 2003 Transferred 2014	Desuthorzed 2000 2008 2004 2004 2004 7/ransferred 2014 2014	Desuthorzed 2000 2008 2004 2004 2004 2004 2014 2014 2015 2009	Desuthorzed 2000 2003 2004 2004 2003 71tansferred 2014 2003 2009 2009 2009	Desuthorzed 2000 2003 2004 2003 2003 2004 2003 2014 2014 2016 2009 2009 1nactive
	NA	NA	NIA		NIA	NUA NUA	NUA NUA NUA	NUA NUA NUA NUA	NUA NUA NUA NUA NUA	NAA NJA NJA NJA NJA NJA	NUA NUA NUA NUA NUA NUA	NJA NJA NJA NJA NJA NJA NJA	NJA NJA NJA NJA NJA NJA NJA NJA	NUA NUA NUA NUA NUA NUA NUA	NJA NJA NJA NJA NJA NJA NJA NJA NJA
	NIA	675	434		NIA										
TERREBONNE		TERREBONNE	ST MARY	TERREBONNE		TERREBONNE	TERREBONNE	TERREBONNE TERREBONNE TERREBONNE	TERREBONNE TERREBONNE TERREBONNE TERREBONNE	TERREBONNE TERREBONNE TERREBONNE TERREBONNE ST MARY	TERREBONNE TERREBONNE TERREBONNE TERREBONNE SI MARY SI MARY				
EPA	_	NRCS	USACE	NRCS		EPA	~								
	Ħ	FD, HR, SP	MC	MC		BH, MC									
	TE-0033	TE-0034	TE-0035	TE-0036		TE-0037	TE-0037 TE-0039	TE-0037 TE-0039 TE-0040	TE-0037 TE-0039 TE-0040 TE-0041	TE-0037 TE-0039 TE-0040 TE-0041 TE-0042	TE-0037 TE-0039 TE-0040 TE-0041 TE-0042 TE-0043	TE-0037 TE-0040 TE-0040 TE-0041 TE-0043 TE-0043	TE-0037 TE-0037 TE-0040 TE-0041 TE-0043 TE-0043 TE-0043	551 944 1961 1954 20 61.5 61.5 67.5 55.	
	Barou Boeuf Pump Station (Deauthorzed)	Penchant Basin Natural Resources Plan, Increment 1	M arsh Creation East of the Atchafaisya River - Avoca Island (Deauthorized)	Thin Mat Floating Marsh Enhancement Demonstration		New Cut Dune and Marsh Restoration	New Cut Dune and Marsh Restoration South Lake Decade Frestrivater Introduction	New Cut Dune and Marsh Recorderation South Luke Decade Freshwater Introduction An arth Redocation	New Cut Dune and Marsh Rozdorddon South Lake Decade Frestrwafer Introduction Arach Restoration Mandawy Bank Protection Mandawy Bank Protection	New Cut Dune and Marsh Redordordb Dune and Marsh Redordbrab Decade South Lake Decade Freshwater Introduction Trinsafer Islank Protection Marsh Restoration More Estisting Akt had aga	New Cut Dure and Marsh Resolutation Branch and Marsh Freshwater Introduction Freshwater Introduction Arthoduction Marsh Restoration Marsh Restoration More Existing Atch ad age Water to Central Transborne Of Marsh Restoration of Critic ad Areas T Tereborne	New Cut Dune and Marsh Rectoration Rectoration South Luke Decade Freshwater Intribution Trinbaler Island Dune and Marsh Rectoration Marsh Rectoration Marsh Restoration of Critic al Areas in Terrebonne OMWY Bank Restoration of Critic al Areas in Terrebonne North Lake Mechant Landbridge Restoration	New Cut Dune and Marsh Rectoration Bectoration South Luke Decade Freatwater introduction Trinnable Ioland Dune and Marsh Restoration Marsh Restoration Marsh Restoration Water to Central Terrebonne Ontwater Season attention Critical Areas in Terrebonne Onth Lake Mechant Landbridge Restoration	New Cut Dune and Marsh Restoration Freshwater Introduction Freshwater Introduction Trinbalier Island Dune and Marsh Restoration Marchaly Bank Protection More Existing Atchd Saga University Bank Restoration of Orthw Bank Restoration of Critk an Restoration of Critk an Restoration Morth Lake Mechant Landbridge Restoration Frotection West Lands Bourdman West Lands Bourdman West Lands Bourdman West Lands Bourdman	New Cut Dure and Marsh Rectoration Freshwater Intribution Freshwater Intribution Trintialist Idand Dure and Marsh Restoration Marsh Restoration Marsh Restoration Marsh Restoration Move Stribting Ath Matages Water to Central Terrebonne Of Transformer Move Stribting Ath Matages Water to Central Terrebonne Of Critic at Areas in Terrebonne Of Critic at Areas in Terrebonne Protection Centralion West Lake Boudroaux West Lake Boudroaux Shoristine Protection and Marsh Shoristine Protection and Marsh
+	CWPPRA ((CWPPRA R	CWPPRA A	CWPPRA E		CWPPRA									

VIOLG LIGATION TE 0049 FD, MC USACE ST MARY N/A Dearthorized \$19,157,200 Project features include a small diversion from and the analysis of the small diversion from the analysis of	100	UNGGUING FACUECTION AND RESIDENTION SOMMARIES Miles of Construction Total Budget Project Description Leves Completion		Project features he tude a smal diversion from The project version submortgated a back of The year of this projects he nerveus a back of the projects of the previously restored and natures features he loaded construction of 316 acres of the effect of smal burne on the out she based.	Project features include a small obvorsion from Bayou Shaffer into Avoca Lake patied with march creation through dedicated drined The project freatures subjecturely destabilized by the VPPERAT size. The project freatment is providely and the provide and matural professor of the standard mark where the barrier is and can prove the standard and natural professor of the standard through on the provide and and and professor of the standard mark where the barrier is and can prove the standard and natural professor of the standard through on the standard standard through on the standard through on the standard standard through on the standard through on the standard standard standard standard through on the standard standard standard standard through the standard through on the standard standard standard standard standard through standard sta
	N/A Deauthorized \$19,157,200	Deauthorized \$19,157,200		The groups, trace subsequently of the group of the group of of this project is to rest. The goal of this project is to rest. The goal of this project is to rest. The goal of the previous of	The yoar is accessed with the section was been when the transmission of the barrier island can migrate in order to increase the ongering of this provides its prevised a standard provide of the sland. Heavy condition was complete in the fair of 2003. Project focuries included construction of 31s across of barrier march, 5,800 linear for of dida creaks, there 1-acre fullal pronds, and 13,000 frieter field of small during out 31s acreased provides and the sland. Heavy condition was complete in the fail of 2003. Project focuries included construction of 31s acreased provide and the barrier is acreated and the provide and the sland of acreased and and the provide and the sland of acreased and and the provide acreated and and the provide acreated and accessed acreased and the and to provide conductive to the provent of summerged anginese vegations. The proposed terms are acreased with solute and to provide conductive to the growent of summerged anginese vegations. The proposed terms acreased with a did promote conductive to the growent of summerged anginese vegations. The proposed terms are acreased to acreate the wave ensisting and to provide acreated and summerged anginese vegations. The proposed terms are acreated acreated and to promote conductive to the growent of summerged anginese vegations. The proposed terms acreased with a did promote conductive to the march and acreated and approximated in 1013 acreased for the wave ensistent of acreated and the project would benefit approximated in 1013 acreased for the acreated acreated march and and promote acreated and approximated in the provide acreated acrea
TE-0050 BH EPA TERREBONNE 270 NW 2010 \$30,414,083	N/A Deauthorced \$19,197,200 N/A 2010 \$30,414,083	Desumorece \$19,19,200 2010 \$30,414,083	2 8	Inear feet of sand dune on the c	Insert feel of said dure on the out state breach shore. The posts of this project stare to reack and nounish mach and associated edge habitat and to promote conditions conducted to the growm of summerged anymers vegatation. The proposed terraces with educe the wave ensistin of easting marshes along the firmpes of Madizon Boy. The project would benefit approximately 1 (b)19 acros of fresh marsh and open water over the 20 year project flic.
Madison Bay Marsh Creation TE-0051 MC, TE NMFS TERREBONNE 1019 NAA Pending \$33, 021, 438 growth of stummelyad aquativ Madison Bay Marsh Creation TE-0051 MC, TE NMFS TERREBONNE 1019 NAA Pending \$33, 021, 438 growth of stummelyad aquativ	NIA Pending \$39,821,438	\$39,821,438		growth of submerged aquatic vou Madison Bay. The project wou	
TE-0052 BH NMFS LAFOURCHE 389 NVA 2012 \$38,422,093 This project involves the reest	N/A 2012 \$39,422,093	2012 \$39,422,093		This project involves the reest marsh that once existed. Appr	This project inrolves the reestablishment of the West Befle headland by rebuilding a large portion of the beach, dune, and back barrier marsh that once existed. Approximately 9,300 feet of beach and dune were rebuilt.
E-thraket-eminent of Barrier Island TE-005.3 VP EPA TERREBONNE NA 2011 \$919,264 Vogetation The provident memory vogetation Territor Para Vogetation Demo	AUA 2011 \$919,264	\$919,264		The goal of this project is to ter sait marsh vegetation. The proj vegetation (bitter panicum (Pan afterniflora) and black mangrov	The goal of this project is to test serveal technobogies or products to enhance the establishment and growth of key barrier island and as travisry-supportion. The project focuses specifically on enhance of the establishment and growth of key barrier island and vogotalion pitter pankum (Pankum amarum) and sea cast (Uniola pankuata)) and march vogotalion (Fanoth conderast (Spathn ademthizia) and black manery diviversing entiminais).
Central Terrebonne Freshwater TE.0066 MC, HR NRC8 TERREBONNE 456 NIA Pending \$17,890,120 The project will reestablish histor	N/A Pending \$17,890,120	\$17,890,120		The project will reestablish histor Grand Pass into the Central Terr	The project will reestabilish historic hydrologic and salinity conditions by reducing the artificial intrusion of Gulf marine waters via the Grand Pass nto the Central Terretorine marshes where enhancing the influence of the Atchafaliger River waters into the area
Lost Laike Mareh Creation and TE-0012 HR, MC USFWIS TERREBONNE 749 NIA Pending \$35,813,728 Coulescent difuse hor valer Motiobisic Restoration	N/A Pending \$35,873,728	\$35,873,728		Project goals include 1) restore coalescence of those two water Lost Lake, 3) reduce fetch in op	Project goals include 1) reactore an important feature of structural framework batween Lake Pagio and Bayeu Docade to prevent the coasterrere for those how water budies. 2) increase the defenre of their hanks, each multish and multientis, into marshes north and west of Lost Lake, 3) reduce feating in open water assessive construction of a ferrace field.
TE-0083 MC USFWS TERREBONNE 353 NIA Pending \$28,664,401 project goals are to create 365.4 ware extra exact exits 363.01 of the more restriction of contract and the project goals are to create 365.4 million of contract and the project goals are to create 365.4 million of contract and contrac	N/A Pending \$28,564,401	\$28,664,401		Project goals are to create 365 a project area reducing water exch erosion along 16,000 ft of the no	Project goals are to create JBS acres of intendial marsh in shalow open water and nourish 799 acres of tragmented marsh within the project acro or bourbin water anchinge between frequencie Bay, and hiterior lakes cump tidai and small atom ovents and to roduce erosion action 16,000 ft of the mothiner frequencie Bay shoreham.
TE-0112 MC INRCS LuFOURCHE 265 NIA Pending \$30,325,016 Sediments will be hydraudic ally divedged from Catifan L	N/A Pending \$30,325,016	\$30,325,016	с. 1979 г.	Sediments will be hydrautically dr and nourish an additional 251 ac	Sediments will be hydraulic ally dredged from Cafitsh Lake and purnged via ploeline to create approximately 415 acres of marsh habitat and nourish an additional 251 acres of marsh habitat.
Island Road March Creation & TE-0117 MC NMFS TERREBONIVE 312 NVA Pending \$40,435,267 Wellbe planted following control Nourishment 1990 March Creation & 1990 March Control 1990 March Control 1990 March Control Contr	NVA Pending \$40,435,267	\$40,435,267	195	The proposed projects primary Road, Sediment will be hydraul will be planted following constru- approximate net increase of 31	The proposed projects primary feature is JEA acres of created same marsh and 19 acres of nourished same marsh adjacent to issue food. Sediment with the hydroulically pumped from a porrey source near Lake Felicity. Hell of the newly construction marsh (182 acres) with p jarled following construction to stabilize the platform and reduce time for full regretation. The project would result in an approximate net increase. 312 acres software 20-year ploter file.
TE-0134 MC NMFS LAFOURCHE 304 NVA Pending \$29,037,768 Mixed threadener marks to the protein the protein threadener mark to the protein the protein threadener marks to the protein the protein threadener mark to the protein the protein threadener marks to the protein the protein threadener mark to the protein threadener mark to the protein threadener mark to the protein the protein threadener mark to the protein the protein threadener mark to the protein the protein the protein the protein the protein the protein threadener mark to the protein the pr	N/A Pending \$29,037,768	\$29,037,768	100%	The goals of this project are to Mexico. This project will creats people and infrastructure of P-	The goals of this project are to create and nourish 614 acres of marsh, by purriping osdiment from an offshore borrow side in the Guif of Mexico. This project with revails new mash hadhed and increase the bingevily of existing hadkat. The project will also help protect the people and infrastructures for Perf ourchoirs.
TE-0138 MC NOAA TERREBONNE 382 NA NA \$31,352,831 The project goals are to const approximately 501 acres of int	N/A N/A \$31,352,831	\$31,352,831		The project goals are to const approximately 501 acres of int	The project goals are to construct 11,726 linear feet of ridge along the northern bank of Bayou Decade and create and/or nourish approximately 501 acres of intermediate marsh along the northern bank of Bayou Decade.
Vermilion River Cutoff Bank TV-0003 SP USACE VERMILLION 202 NVA 1996 \$2,047,479 points resident and bridge Protection	NVA 1996 \$2,047,479	\$2,047,479		The project design includes p points on existing land bridges Bay side to help stabilize and	The protect design includes protecting the east ade of the Vormikion Rivert Cudoff with notic to prevent further erection; hardening the protects on residential and includes on the west bank of the Cudoff with notic, and construction sediment frequing fences on the Vermikion Bay side to help stabilize and protect the bad bridge from wave action in the Bay.
TV-0004 HR NRCS ST MARY 2223 NVA 1998 \$10,093,902 Blaar onchange to prevent scouth on the count of the provided in the normal count of the provided in the provide	N/A 1998 \$10,093,902	\$10,093,902	ŝ.	The primary objectives of the tidal exchange to prevent sco re-establish vegetation in eror	The primary objectives of the project are to reduce finure storated insistrom wave encisor, reduce avcission tatalituctuations and spati field excitange to prevent accumpt of interior march, develop a hydrologis regime conductive to sodiment and nutrient depocition, and to the estabilistic breakdation interior accustor accustor and the source and source accustor and nutrient depocition, and to
Boston CanatVermition Bay TV-0009 SP NRCS VERMILLION 378 NIA 1995 \$1,043,748 of Year San Back Profession Bark	N/A 1995 \$1,043,748	\$1,043,748		The project involves stabilizi of Vermilion Bay shoreline a Intervals.	The project Involves stabilizing 15 miles of Vermilion Bar shorefine and preventing further repression of the Boston Canal barks. A strip of Vermilion Bay shorefine approximately 25 feet wide by 15 miles long was planted with single stems of Spartina attemtion a a 3 foot intervats
Freetwater Baylu Bank Stabitization: Bank Look (mactine) Look (mactine) Look (mactine)	N/A Inactive \$1,101,738	\$1,101,738		The projectwas intended subsequently designated	The projectives intended to construct a rock dike to protect the east shoreline of Freshwater Bayou Canal. The project was subsequently designated as inactive by the CWPPRA Task Force.
441 N/A 1999 \$886,030	N/A 1999 \$886,030	\$886,030	10000	This project is designed Bay. Dredged material v	This project is cleagned to optimize the relention of solarinent from the Atchafakya (twer to create new marsh areas in Lifle Vermilion Bay. Dredged material was placed to create emergent marsh, thereby protecting the existing storeline from wind-houced wave erosion.
CastStAverY Canal Hydrobolic TV-0013-A HR INRCS VERMILLON, 160 NIA 2002 \$2,925,216 The objective of the pro Restoration, increment 1 2002 \$2,925,216 Fording bankine and st	NA 2002 \$2,925,216	\$2,925,216		The objective of the pro eroding bankline and st	test teta innovana kustantean sadura fisial fluctuation to minimize march lone and monoida moder than to milicativ
TV-0014 HR USACE IBERIA 408 N/A 2001 \$5,143,323 To help to restore the th Marsh Island, protection	NUA 2001 \$5,143,323	The chiective of the num		We also and	קובר וא נס ההקוספי הקינוסאטץ, ופטטרע שטמו ווער געמוטיר וט וווווווווע ווומ או וטאק מווע אושייט אייטייגי אטור אי המלוחה מרפ
TV-0015 TE.VP NMFS STMARY 1999 NVA 2005 \$1,653,792	NA 2005 \$1,653,792	\$5,143,323		I ne ubjective of the pri to help to restore the h Marsh Island, protectio	The objective of the project is to mprove mydropoly, reduce boar not transmore marks noss, and proves protectom to charge ending banking and shorelene area. The objective of the project is tabilize the northreastern shoreline of Markh Island, including the northern shoreline of Lake Sand, and to help to restore the historical hydrology. The project included construction of the plugs in of and gas canasa at the northeast end of Marsh island, protection of the northeast shoreline with nock, and isolation of Lake Sand from Vermain Bay with a nock dise
Cheniere Au Tigre Sediment TV-0016 SN/T NRCS VERMILJON NA NA 2001 \$5/4,999 The objective of the pro	N/A 2001 \$624,999	\$5,143,323 \$1,653,792		t ne objective of the pru to help to restore the his Marsh Island, protection The objective of the pro wetland terraces, therek	per to nitroore informed processor was not used on the intervent instant use, and provide processors where any per is to stabilize the northwastern shoredne of Mash Island, including the northern shoredne of Lake Sand, and stories hypology. The project include of solation of Lake Sand and Vermadi as search and northwast end of of the northwast shoredne with nock, and isolation of Lake Sand from Vermadi as search with a nock disc of the northwast shoredne with nock, and isolation of Lake Sand from Vermadi as search and of the northwast shoredne with nock, and isolation of Lake Sand from Vermadi and per is to induce asolitentiation to rease energient vegetated wellands. This was achieved by constructing per its to induce asolitentiation to rease energient vegetated wellands. This was achieved by constructing and its roution was defined afth. Distributed framely vegetated to elever water and sedtiment to the project asea
TV-0017 SP NRCS VERMILION 1496 N/A 2004 \$1,181,129	N/A 2004 \$1,181,129	2001 \$5,143,323 2005 \$1,653,792 2001 \$524,999		The upterber of the projection to help to restore the hist Marsh island, profection The objective of the proje wetland terraces, thereby The objective of the proje encision on Chentere au 1.	(1) Is to stipply reproce boar necessaries continue market market ones, and procees processories were an entitle and the additional processories were an entitle additional processories were additional and additional processory. The providence of March Island, including the northeast processories were additional processories and additional processories additional processories and additional processories and additional processories and additional processories additional processories and additional processories additinguistica processories
Four Mey Cantal Tensering and TV-0018 TE NMFS IBERIA 52 NVA 2004 \$2,667,186 L459-Vermilion Bey abrog Sediment Trapping and transmission	NIA 2004 \$2,667,186	2001 \$5,143,323 2005 \$1,653,792 2001 \$52,4,999 2004 \$1,181,129		1 inserver of the project in the projection of the histo restore the histo march island, protection of the projective	c) to comproper proporting recover evan non-unanneer manage reason uses, and prome processom to some present and present to comproper proporting to the properties of Marsh fished, including the northeast providence of Marsh fished, and the antiperiot of an antiperiod of the content with an of the content water fished. This including the northeast end of the content water and solution wave fished. Distributing that we are arrangent veget and we than ds. This was achieved by constructing requirements and build up to motion the section of the content water and section to the constitue that the northeast end and the constituent the antiperiod of the constituent that the northeast and build to the constituent to the project area. It is to find test a concretion of the constituent build and the project area. It is to find test a concretion of the constituent build and the project of and the constituent the antiperiod of the constituent that and antiperiod to the constituent the antiperiod of the constituent the antiperiod and antiperiod.
Weeks Bay March Chreation Weeks Bay March Chreation Commercial Canal Freshwater Redection (Canal Freshwater Redection (Canal Freshwater Redection (Canal Freshwater Force Vanal Freshwater Force Vanal Freshwater Force Vanal Freshwater Force Vanal Freshwater Force Vanal Freshwater	NVA Transforred \$30,227	2001 \$5,143,233 2005 \$1,653,792 2001 \$524,999 2004 \$1,181,129 2004 \$2,667,166		The other break of the pit to help to reation the hit Marsh Island, protection the objective of the pit The objective of the pit the objective of the pit Bart to the out. The mass project hould be all areas between the large	The objective or the project is to impose trydnorgy, reduce bear inclusion to minimeer mask noise, and proves procescum to choose ending barker or the project is to stabilise the northreadem strunding of Mash listand, including the northeast ending 54 and and to help to respect the historical Physiology. The project included construction of the applies in of and as a stabilise and structure of Lake S and, and Masch listand, protection of the northeast stonetine with nock, and issuation of Lake S and from Vermition B ay with a nock disk. The objective of the project is to stabilise the northeast stonetine with nock, and spation of Lake S and from Vermition B ay with a nock disk. The objective of the project is to field lest a concellend serve elsage to tage advertisms. This was achieved by constructing waitand listand sets, thereafy reducing wave facth. Distributary channels were dragled to deliver water and sodiment to the project area. The objective of the project is to prevent the stronetine south of Lake P ortgate for the onci point the objective of this project to prevent the stronetine south of Lake P ortgate from theorem and built under the objective of the project is to prevent the stronetine south of Lake P ortgate from the onci point the objective of the project is to prevent the stronetine south of Lake P ortgate from theorem and the structure on the objective of the project is to prevent the stronetine south or that point and an and the structure on the objective of the project is to prevent the stronetine south or that points. The objective of the project is to prevent the stronetine south or the and the two the outh ord the structure of south or the caval to be the point of the tranet south or the caval to the tranet of the tranet move the duration and the tranets or the Caval, to abale wave-induced stonethe erosion and facilitate sedimentation in the open water areas attemed and be and the caval to abale wave-induced stonethe erosion and facilitate sedimentation in the open water
TV-0020 SP NRCS STMARY 131 NA Deauthoreed \$32,103,020 [he positive: to 200]	N/A Deauthorized \$32,103,020	2001 \$5,143,323 2005 \$1,653,792 2004 \$1,611,129 2004 \$1,161,129 2004 \$1,161,129 2004 \$1,161,129 2004 \$1,161,129 2004 \$1,161,129 2004 \$1,161,129 2004 \$2,567,186 Trandorred \$30,227		In the projective for the projection of the construction of the projective of the pr	The objects and shorter to compose try torongy, record enal inclusion to minimize marks nots, and proves protection to cheap ending parketine and shorter as an inclusion of the activity of the activity of the objects and activity of the protection to cheap the object we of the project is to stabilize the nonthreastern shorterine of March fishing. Including the nontheast ending that shifts protection of the nonthreast structure includes construction of the activity and activity and activity fishing to rectione the includes structure construction of the activity and activity and the shifts are activity protection of the nonthreast includes construction that stand fishing the montheast end of activity protection of the nonthreast activity and that are activity and that activity and activity and activity include the includes statistical transmission of that stand fishing the montheast and of the object we project is to field test a conceptual device designed to trap sediment from the guilt face, and activity and cheating and the activity and activity and activity and activity and activity activity fine objection of the project is to prevent the activity and activity and activity and the activity activity and cheating of the create activity and activity and activity and the activity activity fine objection and parking of terrares with month the activity and activity and the activity fine option and activity of the guilding of the activity and activity and activity activity and trans taken activity and activity of activity of statistics of standard addition and the activity activity the post of the project is to prevent the activity and activity activity activity and activity activity activity fine option and activity activity of activity of activity of activity activity activity activity and cheating and the activity and activity activity activity activity activity and activity activity and activity of activity activity activity activity activity activity actis activity actis activity activity of activity activity a
The objective of the projection The objective of the projection TV-0021 MC NRCS IBERIA 1159 NIA 2010 \$21,215,936 funds, over 500 acres of the projection of the projection of the projection	NJA 2010 \$21,215,936	2001 \$5,143,323 2005 \$1,653,792 2001 \$1,653,792 2004 \$1,161,129 2004 \$1,161,129 2004 \$1,161,129 2004 \$1,161,129 2004 \$1,161,129 2004 \$1,161,129 2004 \$1,161,129 2004 \$1,161,129 2004 \$1,161,129 2004 \$1,161,129 2004 \$1,161,129 2004 \$1,161,129 2004 \$1,161,129 2004 \$1,161,129 2004 \$1,267,166 Transformed \$30,227 Deauthored \$30,220		1 rise unserver of the projection of help to restore the help. If help to restore the help. The objective of the projective and the objective of the projective entrance of the projective of the projective entrance of the projective of the projective and a consideration of the projective and a construction Bay, abong and a construction Bay, abong a	c) c) c) c) more injoint of the process and more unarray to manage must now, any process processom to show any end and the base and the processom to show any processom to show any order of the burger and and the northeast more processom to show any and the northeast processom to show any and the northeast the northeast the northeast the northeast and of the show and the northeast the nort
Cole/s Bayrou Marsh Creation TV-0063 MC NMFS VERMILLON 398 NA Pending \$27,881,223 The project consists of creatingh	NIA Ponding 607 981 003	2001 \$5,143,323 2005 \$1,653,792 2001 \$5,563,792 2001 \$5,563,792 2004 \$1,161,129 2004 \$1,161,129 2004 \$1,161,129 2004 \$1,161,129 7004 \$2,667,166 7004 \$2,027,106 7005 \$30,227 0.0eauthoreed \$30,227 0.0eauthoreed \$30,227 0.0eauthoreed \$30,237 0.0eauthoreed \$30,237 0.0eauthoreed \$30,237 0.0eauthoreed \$30,237		The brack product the projection of help to restore the brack where the project we wanted the set of the project the object here of the project the object here of the project the object here of the project the the project the object here of the project the object here of the project the object here object	The objective of the project is to intrine injointy, reduce bear includent in thim the entities into yourse protection to choose acting particle and stronglobic is to stabilize the includence information of the providence in the protection of choose to help to restore the historical hybridogy. The proteine with most, and isolation in take Sand and marks its present in the includence and includence information of the set of the protection of the protection of the marks includence in the protect still in includence with most, and isolation in take Sand from Vermation Bay with a including and marks its present in the includence information to create ensergent varget and with an including the includence and includence metal and the objective of the project still in includence information where a device in the set of the objective of the project still in nuture sedimentation to create ensergent varget and estimation by uch a nock (side section and section and building providence with any and annother and and sedimating to the project as the objective of the project still in profession and annother and most and annother and and and object is the project still to present the profession and annother and and annother and and and and the optimation and platimary of there are with sand and annother and and annother and and as exhertion and platimary of there are with sand annother and and and and and and and the optimation and as exhertion for an optimary of there are with sand annother and and and and and and the optimation the project the project to a proved the project to partial platimary of there are with sand and as exhertion and platimary of there are with sand and annother and and and and and and and and and and as exhertion for the project to a project to partial platimary of the project was the project was to project was to profession and and and and and and and and and an

	e e	38	8	Planning Unit			34	34	34	Ж	3A	1	ЗА	3A	ЭА	ЗА	ЗВ	38	4	4		æ		1,2	2	2	2, 3A	2	2	1	2.1	2, 1	
a and of the nexteet use to restert as another charding such server 35.735 fast of reals also charding nexteetion. The nexteet use	angene in the providence of the content of a second	anche Bay and sumeoo a maimrum of 6 miles. To project cares of creating/inourishing marzh habtat and increacing frechwater and sodiment inflow into interior wetlands by science project area involved.	scoring project area fractobar.	ONGOING PROTECTION AND RESTORATION SUMMARIES Miles of Construction Total Budget Project Description Levee Completion	an project consisted of a near shore, segmented breakwater system in Lake Pontchaffan paralel to a five mile reach of the Manchae An service of the Manchae	v water M answermix. Area, i me project specific ally rimigawe for d'arrages resulting from construction of the Lake Pontichartiani Luini: ana Projecté morpiade This project two stigates an suite of rectoration measures that are collectively intended to rectore some of the ecosystem damaged by	instruction of MPGO. his coastal vegetative planting project is for erosion control and habitat restoration in the Lost Lake area of southwestern Terrebonne	arish Iis F EMA project krooked the repair of segments of the western bank of the Hourna Navigation Canal damaged by Hunic are Andrew	1 1922 In the EMA project was a couperable eventure with the USACE in the beneficial use of dredged material from a scheduled hourna landagenetic and maintenance dredging project. The island was repared to pre-hunicane Andrew condition and planted with the schedule of the scheduled beneficial uses the schedule of the scheduled beneficial uses the schedule of the schedule of th	getation to stabulize the sediment. Lis FEMA project closed a major breach created by Humk are Andrew and provided a 300-foot-wide elevated marsh platform to	ature rine island. Vengaratori was also, planted to statute rue sand An A project and every and metch planted in an area of a Tonebonne Parish project destroyed by Hurric ane Androw An 2 V zowishim were sho included to statute cond	1952. ** Personom was apolytianted to standard me same. 2016-foot section of a Christmast free brush fance was repaired. This project was damaged by Humic and Georges, Humic and Elart, d Torobic DismifF-inter in 1996.	d sand fencing on Timballer island that was destroyed during a series of tropical storms.	This FBM project replaced flag gales on waker control structures damaged during books adonning and horir stares in the fail of 1986. The stratisticon of the new flaggate curlents was completed by Tereboune Parish Consolidated Government. This FBM project involves the pariation franch vegation on the curre and Lake Pello structure of the case is part of a	WPPRA, project damaged by a series of tropic al storms and hurricanes in the fall of 1998. A total of 4,280 smooth cordgrass partina alterntional, 500 black mangrove (Avicennia germans), and 6, 147 rossau cane (Phragmetes austratis) plants were planted in 1/12002.	This FEMA project involved the inclatation of sand foncting and the planting of vegetation to repair areas of Whiteley Island damaged by topoliei storms and huniteares dump the fait of 1988. This area is pair of a CWPPPA project area and CWPPPA, funds were combined with the FEMA funds on repairs.	This FEMA project consisted of reparis to areas of stone pairing, stone dikes, and minor repair of navigation aits on the M area island Hordbogs featured of the project damaged during Huritsane LII in 2002. The project area included minor maintenance work paid for by CVMPPRA.	ich FBMA project consisted of repairs to areas of stone paring. Stone olikes, and minor repair of navigation axis on the Cote Blanche (nobody: Resolution (TV-90) project damaged during Hunix-are Likin 2002. The project also included minor maintenance work paid bu competed.	is FEMA project concists of repairs to the structures of the Camaron Croole Mainfenance (CS 04s) project that were damaged by Instraine REM and 2006; These are brunders are brund in Grand, Pariou, Landert, Markan Markan Brunder Brunder Br	is the style course of the representation is a count meeting of the index of the index of the representation is a style of the representation of the re	tamaged by Hurrisme Scattina in 2005. Repairs were made to damaged forcing, railings, and displaced forcing, and a lost portable ordinalite actuator is being replaced. The goal of this project was to remove debris from aproximately 758 square miles of Lake Ponth hartrain.	This FEMA project repaired damage to the Montegut Wetland (TE-01) project that occurred during Humisane Lalin 2002. The project	солзако о гелоловии у ако тех откостор 17,000 невитек о ел скало у еконет еле о илу он-зак осложниканая. Па рођет is currently designed to provide 100 Yaar protection lavels to the project ace through the construction of lavees to the 2011	protecton reference and in the advances to the zoor protection refers. The NOV professions of zame and sume concerned by projected to the Zoor protection refers.	stern. Is Canad is and Yiz nhy Hum'same Protection Project consists of a 7.5 mile vegetated sand durine extending the length of Crand Vic nut channe a licity to failure the verseter and of of the isonical 3.5 mile and an of an drand multi-extend	This project involves the Installation of various improvement features to the Interfor pump stations of Orleans and Jefferson Parish under The Humistere and Storm Damage Risk Reduction System (HSDRRS).	This USACE project involves the traitementation of various restoration measures to mitigate welland inspacts associated with the construction by West Bank and Vicinity (MBV) (DBS declarable MS S1011 Million allocated by the LLS_4th. Sunonkewards This noncetts to have been been set and and a set and the start of the Million allocated by the LLS_4th. Sunonkewards	reproverse a support of the first state of the provides for about 101 acres of marks creation and 122 acres of marks propriate and a state of the Periodic state of the Periodic state of the state of the state of the state of the utstate on the south store of the Periodic state of the Periodic state of the state of the state of the state of	This project is being but by USACE and is 100% federally funded with approximately \$79 Million allocated. It provides for about 1,130 acres of mighton, in kulding, 1) acquisition, incrincented, and management of approximately 132 acres of EU that adjacent to Bayou Dependent State Park, 2) acquisition for approximately 9/13 acres of high value wooled within states Parkh, and 3) acquisition, improvement of approximately 9/30 acres of high quality wooded lands in St. Charles Parkh, and 3) acquisition, improvement of approximately 9/30 acres of high quality wooded lands in St. Charles Parkh, and 3) acquisition, improvement of approximately 9/30 acres of high quality wooded lands in St. Charles Parkh, and 3) acquisition, improvement of approximately 9/30 acres of high quality wooded lands in St. Charles Parkh, and 3) acres of high quality wooded lands in St. Charles Parkh, and 3) acres of high quality wooded lands in St. Charles Parkh, and 3) acres of high quality wooded lands in St. Charles Parkh, and 3) acres of high quality for the parket parkh.	This project is being bed by USACE and is 100% federally funded with approximately \$2.8 Million allocated. It provides for the creation of approximately 24 acres of Marsh. Additionally, Tableterines Fasting Mille controlmenting a neighboring local project of 16 acres of marsh creation to his projective marsh apprementation for an chain of 410 acres.	This project is being bed by USACE: and is 100% federary funded with approximately \$14.5 Million allocated. It provides for about 180 acres of mitigation, which hicludes approximately 50 acres of BLH weldity combined, 50 acres of swamp, 60 acres of freetwater marsh, and 20 acres of brackshi marsh.	his project is being led by USACE and is 100% federally funded with approximately \$30 M llion allocated. It provides for about 700 traces of integration, which includes approximately 10 and sector full under worlder contrained, 140 acress of settimeters). To secret of brackshirmsta, and 250 acress of saline marksi.	This project is being bid by USACE and is 100% federally funded with \$10,1 Million allocated by the U.S. 4th Supplemental Appropriations are alloring and FSK Reduction project. It provides for redetering water from the Caranaco Dureation in the 44 Appent Carana to enhance the movement of frees, estiment-laden water into the nearsh north Carana to enter the reverse marker of caranation. This project searo optimally into ded an availate with the marksh AS 16 but removed to allow USACE to fund it are a determination. This project searo optimally into ded ded as abund runder Charanace the Vision for the 45 of the
	\$32,103,020 0 \$21,215,936 00	\$27,881,223 Ir		AND RESTORA Total Budget	L coo coo co	H 1282,222,24 H 1	-	\$218.165 T		<u>> + (</u>	0	\$43,315 A	\$181,394 Ta	\$10,761 T	\$168,113 C	\$581,566 th	\$885,861 H	\$64,092 H			\$64,900 di http://www.action.com/ \$10,000,000 T1	\$1.093.962		1 1 1 20	\$25,000,000 [1		\$126,000,000 T	\$10,100,000 A	11,000,000 31	\$2,800,000 al	\$14,500,000 at	\$30,000,000 at	11 810,100,000 C
	Deauthorzed 2010	Pending	Richard I.	PROTECTION Construction		Dooding	2011	1995	1995	1396	1996	2000	2000	2000	2000	2000	2005	2005	2007	2006	2007 2010	2005	Pending	Pending	Pending	2014	Pending	Pending	Pending	Pending	Pending	Pending	P ending/On Hold
	NIA	N/A	2	ONGOING Miles of Levee	Immund	NIA NIA	NIA	NIA	N/A	NIA	N/A	VIN	NA	N/A	NIA	N/A	VIN	N/A	VN	NA	N/A N/A	MA	7	58	Not Available	NA	N/A	NA	NIA	N/A	VIN	NIA	NIA
	131 1159	398		Acres Benefited		600	NIA	4000	25	70	25	VIV	NA	N/A	NIA	1259	V/N	N/A	VN	NA	N/A N/A	AVA	NIA	V/N	NA	N/A	1318	223	1130	24	342	410	65
	ST MARY IBERIA	VERMILION		Parish	ST JOHN THE	BAPTIST ST BERNARD,	ORLEANS	TERREBONNE	TERREBONNE	TERREBONNE	TERREBONNE	ST CHARLES	TERREBONNE	TERREBONNE	TERREBONNE	TERREBONNE	IBERIA	ST MARY	CAMERON	CAMERON	ST BERNARD JEFFERSON, ORLEANS, ST CHARLES, ST JOHN	TAMMANY, TANGIPAHOA TERREBONNE	ST CHARLES, ORLEANS,	PLAQUEMINES	JEFFERSON	JEFFERSON, ORLEANS	JEFFERSON, LAFOURCHE	JEFFERSON	JEFFERSON, ST. CHARLES	PLAQUEMINES	PLAQUEMINES	PLAQUEMINES	PLAQUEMINES
	NRCS	NMFS	2 And a second sec	Federal Sponsor		USACE	IISFWS	FEMA	FEMA	FEMA	FEMA	FEMA	FEMA	FEMA	FEMA	FEMA	FEMA	FEMA	FEMA	FEMA	FEMA	FEMA	USACE	USACE	USACE	USACE	USACE	USACE	USACE	USACE	USACE	USACE	USACE
	MC SP	MC	D E	Project Type		VP.FD.	NO A	d B	WQ	HB	MQ	SP	ΗB	es.	٨P	٩٧	WW	뚜	쀼	SР	NIA NIA	W	9	۴	ď	БР	MC	MC, HP	MM, VP, PP	MC	MC	MC	FD, SD, HP
	TV-0020 TV-0021	TV-0063		State Project Number		HPL-MIT DO.0066		DSR-81557	DSR-81558	DSR-81559	DSR-81560	DSR-81768	DSR-81784	DSR-81785	DSR-81786	DSR-81787	PW-1646	PW-1906	PW-4257	PW-4403	PW-8743 NIA	PW-1728	BA.0066	BA-0067	BA-0073	BA-0074	BA-0109	BA-0148	BA-0154	BA-0156	BA-0158	BA-0159	BS-0003-B
Redirection (Transferred)	Protection (Deauthorized) East Marsh Island Marsh Creation	Cole's Bayou Marsh Creation		Name	lumicane	Mitigation Project MDGO Economican Bonterotion	I ost I ake Venetation Project	Hourna Navigation Canal Levee	M aintenance W ine Island	Timballer Island Repairs	ction		Π	Falgout Canal	East Island	Isle Dernieres (Whisker Island)	March Island Repairs	Cote Blanche Repairs	Cameron Creole Structures	Holy Beach Sand Fencing Hopedale Hydroholeal	Structure Lake Pontchartrain Debris	M onlegut W ettands	W est Bank and Vicinity	New Orleans to Venice	Grand Isle and Vicinity	Storm-Proofing of Interior Purnping Stations	HSDRRS Mitgation- WBV	Risk Reduction- Barataria Basin Landbridge	P reviously Authorized Mitigation W BV	Plaquemines TFU Miligation - Braithwate to Scarsdale - Big Mar	New Orteans to Venice Mitigation - Plaquemines Non- Federal	New Orleans to Venice Mitigation - Federal	Risk Reduction V ia Modification to the Caernarvon Froshwater Diversion
	CWPPRA	CWPPRA		CPRA Program		FEDERAL	FEDERAL	FEMA	FEMA	FEMA	FEMA	FEMA			FEMA	FEMA	FEMA	FEMA	FEMA	FEMA	FEMA FEMA	FEMA	SBBOSH	HSDRRS	HSDRRS	HSDRRS	HSDRRS	HSDRRS	HSDRRS	HSDRRS	HSDRRS	SARCEH	HSDRRS

| | RGO levees south of 1 | | e east bank and west 1,2 | | ** | 3 - × | 18 | 18 - × | | |
 | 77 | 77 | | 76
 | | | 5 + 5 ÷ ÷ 5 | х – х – с – (, , , , , , , , , , , , , , , , , ,
 | a à 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 | | |
 | | | |
 | |
|--|---|---|--|--|--|---|---|--|--|--
--	--	---	--
---	--	--	
--	---	--	
---	--	--	--
	ie tip of Lake Borgne connecting the MRGO jates at Bayou Biervenue and GMWV.	r Parish and Orleans Parish, on both the east	
	This provect involves the construction of a Humix and Surge Barmer across the bip of Lake Borgine connecting the MICCO Tevees south of Bayou Blennenue with the GIMWI levees East of Michoud Canal with froodgates at Bayou Blennenue and GIMWI.	unsists of drainage and pump station projects within Jefferson Parish and Orleans Parish, on both the east bank and we ississipal River.	uthorized under Public Law 109-234. Involves the design and constr
This project involves the construct Bayou Bienvenue with the GIWW This project consists of drainage a	This project consists of drainage a	Dank of the Mississippi Hiver.	This project, authorized under Pu outfail canais along 17th Street, O
\$1.134.000.000 Th		\$1,170,974,586 Th	\$514,800,000 ou
 | | | |
 | | | |
 | | | |
 | | | |
 | |
2013 \$1 Pending \$1			Pending	Pending	2010 \$2		2012			
 | | | |
 | | | |
 | | | |
 | | | |
 | |
2 NVA D.34	N/A 0.34	0.34	1	27	128		0.5	0.5 N/A	0.5 NVA NVA	0.5 NIA NIA NIA
 | | | |
 | | | |
 | | | |
 | | | |
 | 0.5
NUA
NUA
NUA
NUA
NUA
NUA
NUA
NUA
NUA
NUA |
| NUA
NUA
NUA | NIA
NIA | NA | | N/A. | VIN | N/A | 1089 | | 58 | 58
1329 | 58
1329
N/A
 | 58
1329
NUA
NUA | 58
1329
NUA
NUA | 58
1329
NUA
NUA
NUA | 58
1329
NUA
NUA
NUA
NUA
 | 58
1329
NuA
NuA
NuA
NuA
NuA
NuA | 58
1329
NUA
NUA
NUA
NUA
NUA
NUA | 58
1329
NuA
NuA
NuA
NuA
NuA
NuA
NuA
NuA | 58
1329
NuA
NuA
NuA
NuA
NuA
NuA
NuA
NuA
NuA
NuA
 | 58
1329
NUA
NUA
NUA
NUA
NUA
NUA
NUA
NUA
NUA | 58
1329
1329
NUA
NUA
NUA
NUA
NUA
NUA
NUA
NUA
NUA
NUA | 58
1329
1329
NUA
NUA
NUA
NUA
NUA
NUA
NUA
NUA
NUA
NUA | 58
1329
1329
NUA
NUA
NUA
NUA
NUA
NUA
NUA
NUA
NUA
 | 58
1329
1329
NuA
NuA
NuA
NuA
NuA
NuA
NuA
NuA
NuA
NuA | 58
1329
1329
NUA
NUA
NUA
NUA
NUA
NUA
NUA
NUA
NUA
NUA | 58
1329
1329
NuA
NuA
NuA
NuA
NuA
NuA
NuA
NuA
NuA
NuA | 58
1329
1329
NuA
NuA
NuA
NuA
NuA
NuA
NuA
NuA
NuA
NuA
 | 58
1329
1329
NUA
NUA
NUA
NUA
NUA
NUA
NUA
NUA
NUA
NUA |
ST BERNARD. ORLEANS JEFFERSON. ORLEANS ORLEANS ORLEANS URFFERSON ST JOHN THE BATTS, ST UMALES, ST UMALES, ST	JEFFERSON, ORLEANS ORLEANS, JEFFERSON STJOHN THE BAPTIST, ST CHARLES, ST CHARLES, ST CHARLES, ST	ORLEANS, JEFFERSON ST JOHN THE BAPTIST, ST CHARLES, ST LANES, ST	ST JOHN THE BAPTIST, ST CHARLES, ST IAMES, ST	ASCENSION	ST CHARLES, JEFFERSON	ORLEANS	ST TAMMANY, ORLEANS		ORLEANS	ORLEANS ST JOHN THE BAPTIST	ORLEANS ST JOHN THE BAPTIST ASSUMPTION, LAFOURCHE	ORLEANS SI JOHN THE BAPTIST ASSUMPTION, LAFOURCHE PLAOUEMINES	ORLEANS ST JOHN THE BAPTIST BAPTIST ASSUMPTION LAFOURCHE PLAOUEMINES ST CHARLES, FLAOUEMINES LAFOURCHE PLAOUEMINES	ORLEANS ST JOHN THE BAPTIST BAPTIST ASSUMPTION LAFOURCHE PLAOUEMINES ST CHARLES, LAFOURCHE FRON, LAFOURCHE LAFOURCHE LAFOURCHE LAFOURCHE PLAOUEMINES	ORLEANS SI JOHN THE BAPTIST BAPTIST ASSUMPTION LAFOURCHE PLAOUEMINES PLAOUEMINES PLAOUEMINES PLAOUEMINES PLAOUEMINES	ORLEANS ST JOHN THE BAPTIST BAPTIST BAPTIST ASSUMPTION LAFOURCHE PLAOUEMINES EFFERSON, LAFOURCHE PLAOUEMINES PLAOUEMINES PLAOUEMINES PLAOUEMINES	ORLEANS ST JOHN THE BAPTIST BAPTIST BAPTIST ASSUMPTION, LAFOURCHE PLAOUEMINES FLAOUEMINES FLAOUEMINES PLAOUEMINES PLAOUEMINES PLAOUEMINES PLAOUEMINES PLAOUEMINES COASTWIDE COASTWIDE	ORLEANS ST JOHN THE BAPTIST ASSUMPTION LAFOURCHE ASSUMPTION ASSUMPTION ASSUMPTION ASSUMPTION ASSUMPTION ASSUMPTION ASSUMPTION PLAOUEMINES PLAOUEMINES PLAOUEMINES COASTWIDE COASTWIDE	ORLEANS ST JOHN THE BAPTIST ASSUMPTION ASSUMPTION ASSUMPTION ASSUMPTION ASSUMPTION ASSUMPTION ASSUMPTION ASSUMPTION PLAOUENNES PLAOUENNES PLAOUENNES PLAOUENNES PLAOUENNES PLAOUENNES PLAOUENNES REFERSION PLAOUENNES PLAOUENNES REFERSION PLAOUENNES REFERSION PLAOUENNES REFERSION PLAOUENNES REFERSION PLAOUENNES REFERSION PLAOUENNES REFERSION PLAOUENNES REFERSION PLAOUENNES REFERSION PLAOUENNES REFERSION PLAOUENNES REFERSION PLAOUENNES REFERSION PLAOUENNES REFERSION PLAOUENNES REFERSION PLAOUENNES REFERSION PLAOUENNES REFERSION PLAOUENNES REFERSION REFERS	ORLEANIS ST JOHN THE BAPTIST BAPTIST ASSUMPTION LAFOURGHE FLAOUEMINES FLAOUEMINES FLAOUEMINES PLAOUEMINES PLAOUEMINES PLAOUEMINES PLAOUEMINES PLAOUEMINES PLAOUEMINES PLAOUEMINES PLAOUEMINES PLAOUEMINES FLAOUEMINES ASSUMPTIST REFERENCE CASTWIDE PLAOUEMINES REFERENCE CASTWIDE PLAOUEMINES REFERENCE CASTWIDE PLAOUEMINES REFERENCE CASTWIDE REFERENCE CASTWIDE REFERENCE CASTWIDE REFERENCE CASTWIDE REFERENCE CASTWIDE REFERENCE CASTWIDE REFERENCE CASTWIDE REFERENCE CASTWIDE REFERENCE CASTWIDE REFERENCE CASTWIDE REFERENCE CASTWIDE REFERENCE CASTWIDE REFERENCE CASTWIDE REFERENCE CASTWIDE REFERENCE CASTWIDE REFERENCE CASTWIDE REFERENCE CASTWIDE REFERENCE CASTWIDE REFERENCE CASTWIDE REFERENCE REFERENCE CASTWIDE REFERENCE REFERENCE CASTWIDE REFERENCE REFERENCE CASTWIDE REFERENCE REFERENCE CASTWIDE REFERENCE REFERENCE REFERENCE REFERENCE REFERENCE CASTWIDE REFERENCE REFERENCE REFERENCE REFERENCE CASTWIDE REFERENCE REFERENCE REFERENCE CASTWIDE REFERENCE REFERENCE CASTWIDE REFERENCE CASTWIDE REFERENCE CASTWIDE REFERENCE CASTWIDE REFERENC	ORLEANS ST JOHN THE BAPTIST BAPTIST BAPTIST ASSUMPTION, LAFOURCHE ACOURCHE ACOURCHE PLAOUEMINES PLAOUEMINES PLAOUEMINES PLAOUEMINES PLAOUEMINES PLAOUEMINES PLAOUEMINES PLAOUEMINES PLAOUEMINES ST JOHN THE BAPTIST ST JOHN THE ST JOHN TH	ORLEANIS SI JOHN THE BAPTIST BAPTIST BAPTIST ASSUMPTION LAFOURCHE SI CHARLES, TAFOURCHES, SI CHARLES, SI CHARLES, PLAOUEMINES	ORLEANS ST JOHN THE BAPTIST BAPTIST LAFOURCHE LAFOURCHE ST CHARLES ST CHARLES ST CHARLES FLAOUEMINES PLAOUEMINES PLAOUEMINES PLAOUEMINES PLAOUEMINES PLAOUEMINES PLAOUEMINES ST JUHN THE ST JUHN THE ST JUHN THE ST JUHN THE ST JUHN THE ST JUHN ST ON LAFORESON LAFOUEMINES ST JUHNES ST JUHN	ORLEANS ST JOHN THE BAPTIST BAPTIST LAFOURCHE ASSUMPTION, LAFOURCHE ST CHARLES ST CHARLE	ORLEANS STJOHN THE BAPTIST BAPTIST BAPTIST BAPTIST ASSUMPTION, LAFOURCHE AFOURCHE AFOURCHE PLAOUEMINES PLAOUEMINES PLAOUEMINES PLAOUEMINES PLAOUEMINES PLAOUEMINES PLAOUEMINES PLAOUEMINES PLAOUEMINES STLAMES COASTWIDE PLAOUEMINES STLAMES ASCENSION ASCENSION ASCENSION ASCENSION TERREBONNE TERREBONNE TERREBONNE TERREBONNE TERREBONNE	ORLEANS GRLEANS ST JOHN THE BAPTIST ASSUMPTION LAFOURCHE ST CHARLES ST CHARLE	ORLEANS ORLEANS ST JOHN THE BAPTIST ASSUMPTION LAFOURCHE ST CHARLES, PLAOUENNES FLAOUENNES PLAOUENNES PLAOUENNES PLAOUENNES PLAOUENNES PLAOUENNES PLAOUENNES REPRATET ST GERRESON, LAFOUENNES ST JARES AST ST GERRESON, LAFOUENNES ST JARES AST ST GERRESON LAFOUENNES ST JARESON LAFOUENNES ST JARESON LAFOUENNES S	ORLEANS ORLEANS SI JOHN THE BAPTIST BERNITS LUFOURDNE PLAOUEMINES ST CHARLES, ST CHARLES, ST CHARLES, ST CHARLES, PLAOUEMINES LAFERSON, PLAOUEMINES PLAOUEMINES PLAOUEMINES COASTWORE PLAOUEMINES ST JOHN THE PLAOUEMINES ST JOHN THE PLAOUEMINES ST JOHN THE PLAOUEMINES ST JOHN THE PLAOUEMINES TERREBONNE TERREBONNE TERREBONNE TERREBONNE TERREBONNE TERREBONNE TERREBONNE TERREBONNE TERREBONNE TERREBONNE TERREBONNE TERREBONNE
USACE USACE USACE USACE	USACE USACE USACE	USACE USACE	USACE		USACE	USACE	USACE		USACE																			
 | | | |
 | | | |
 | | | |
 | | | |
 | |
| | | | 352 92 | - 12 | ₽ | £ | MC | MM, VP | | MC, SP | 1
 | | | |
 | | | |
 | | | |
 | | | |
 | |
| PO-0055
PO-0057
PO-0060 | P0-0057 | PO-0060 | PO-0062 | | PO-0063 | PO-0064 | PO-0121 | PO-0145 | | PO-0146 | PO-0146
BA-0070
 | PO-0146
BA-0020
BA-0021 | PO-0146
BA-0070
BA-0071
BA-0072 | PO-0146
BA-0020
BA-0021
BA-0072
BA-0072
BS-0019 | PO-0146
BA-0070
BA-0071
BA-0072
BA-0072
BS-0019
BS-0020
 | PO-0146
BA-0070
BA-0071
BA-0072
B8-0019
B8-0019
B8-0010 | PO-0146
BA-0070
BA-0072
BA-0072
BA-0072
BA-0072
BA-0010
LA-0010 | P-0-0146
BA-0070
BA-0072
BA-0072
BA-0072
BA-0070
BB-0010
BB-0020
BB-0020
BB-0020
BB-0010
BB-0010
BB-0010
BB-0010
BB-0010
BB-0010
BB-0010
BB-0010
BB-0010
BB-0010
BB-0010
BB-0010
BB-0010
BB-0010
BB-0010
BB-0010
BB-0010
BB-0010
BB-0010
BB-0010
BB-0010
BB-0010
BB-0010
BB-0010
BB-0010
BB-0010
BB-0010
BB-0010
BB-0010
BB-0010
BB-0010
BB-0010
BB-0010
BB-0010
BB-0010
BB-0010
BB-0010
BB-0010
BB-0010
BB-0010
BB-0010
BB-0010
BB-0010
BB-0010
BB-0010
BB-0010
BB-0010
BB-0010
BB-0010
BB-0010
BB-0010
BB-0010
BB-0010
BB-0010
BB-0010
BB-0010
BB-0010
BB-0010
BB-0010
BB-0010
BB-0010
BB-0010
BB-0010
BB-0010
BB-0010
BB-0010
BB-0010
BB-0010
BB-0010
BB-0010
BB-0010
BB-0010
BB-0010
BB-0010
BB-0010
BB-0010
BB-0010
BB-0010
BB-0010
BB-0010
BB-0010
BB-0010
BB-0010
BB-0010
BB-0010
BB-0010
BB-0010
BB-0010
BB-0010
BB-0010
BB-0010
BB-0010
BB-0010
BB-0010
BB-0010
BB-0010
BB-0010
BB-0010
BB-0010
BB-0010
BB-0010
BB-0010
BB-0010
BB-0010
BB-0010
BB-0010
BB-0010
BB-0010
BB-0010
BB-0010
BB-0010
BB-0010
BB-0010
BB-0010
BB-0010
BB-0010
BB-0010
BB-0010
BB-0010
BB-0010
BB-0010
BB-0010
BB-0010
BB-0010
BB-0010
BB-0010
BB-0010
BB-0010
BB-0010
BB-0010
BB-0010
BB-0010
BB-0010
BB-0010
BB-0010
BB-0010
BB-0010
BB-0010
BB-0010
BB-0010
BB-0010
BB-0010
BB-0010
BB-0010
BB-0010
BB-0010
BB-0010
BB-0010
BB-0010
BB-0010
BB-0010
BB-0010
BB-0010
BB-0010
BB-0010
BB-0010
BB-0010
BB-0010
BB-0010
BB-0010
BB-0010
BB-0010
BB-0010
BB-0010
BB-0010
BB-0010
BB-0010
BB-0010
BB-0010
BB-0010
BB-0010
BB-0010
BB-0010
BB-0010
BB-0010
BB-0010
BB-0010
BB-0010
BB-0010
BB-0010
BB-0010
BB-0010
BB-0010
BB-0010
BB-0010
BB-0010
BB-0010
BB-0010
BB-0010
BB-0010
BB-0010
BB-0010
BB-0010
BB-0010
BB-0010
BB-0010
BB-0010
BB-0000
BB-0000
BB-0000
BB-0000
BB-0000
BB-0000
BB-0000
BB-0000
BB-0000
BB-0000
BB-0000
BB-0000
BB-0000
BB-0000
BB-0000
BB-0000
BB-00000
BB-00000
BB-00000
BB-00000 |
P-0-0146
BA-0020
BA-0022
BA-0022
BA-0022
BA-0020
BA-0020
BA-0020
BA-0020
BA-0020
BA-0020
BA-0020
BA-0020
BA-0020
BA-0020
BA-0020
BA-0022
BA-0022
BA-0022
BA-0022
BA-0022
BA-0022
BA-0022
BA-0022
BA-0022
BA-0022
BA-0022
BA-0022
BA-0022
BA-0022
BA-0022
BA-0022
BA-0022
BA-0022
BA-0022
BA-0022
BA-0022
BA-0022
BA-0022
BA-0022
BA-0022
BA-0022
BA-0022
BA-0022
BA-0022
BA-0022
BA-0022
BA-0022
BA-0022
BA-0022
BA-0022
BA-0022
BA-0022
BA-0022
BA-0022
BA-0022
BA-0022
BA-0022
BA-0022
BA-0022
BA-0022
BA-0022
BA-0022
BA-0022
BA-0022
BA-0022
BA-0022
BA-0022
BA-0022
BA-0022
BA-0022
BA-0022
BA-0022
BA-0022
BA-0022
BA-0022
BA-0022
BA-0022
BA-0022
BA-0022
BA-0022
BA-0022
BA-0022
BA-0022
BA-0022
BA-0022
BA-0022
BA-0022
BA-0022
BA-0022
BA-0022
BA-0022
BA-0022
BA-0022
BA-0022
BA-0022
BA-0022
BA-0022
BA-0022
BA-0022
BA-0022
BA-0022
BA-0022
BA-0022
BA-0022
BA-0022
BA-0022
BA-0022
BA-0022
BA-0022
BA-0022
BA-0022
BA-0022
BA-0022
BA-0022
BA-0022
BA-0022
BA-0022
BA-0022
BA-0022
BA-0022
BA-0022
BA-0022
BA-0022
BA-0022
BA-0022
BA-0022
BA-0022
BA-0022
BA-0022
BA-0022
BA-0022
BA-0022
BA-0022
BA-0022
BA-0022
BA-0022
BA-0022
BA-0022
BA-0022
BA-0022
BA-0022
BA-0022
BA-0022
BA-0022
BA-0022
BA-0022
BA-0022
BA-0022
BA-0022
BA-0022
BA-0022
BA-0022
BA-0022
BA-0022
BA-0022
BA-0022
BA-0022
BA-0022
BA-0022
BA-0022
BA-0022
BA-0022
BA-0022
BA-0022
BA-0022
BA-0022
BA-0022
BA-0022
BA-0022
BA-0022
BA-0022
BA-0022
BA-0022
BA-0022
BA-0022
BA-0022
BA-0022
BA-0022
BA-0022
BA-0022
BA-0022
BA-0022
BA-0022
BA-0022
BA-0022
BA-0022
BA-0022
BA-0022
BA-0022
BA-0022
BA-0022
BA-0022
BA-0022
BA-0022
BA-0022
BA-0022
BA-0022
BA-0022
BA-0022
BA-0022
BA-0022
BA-0022
BA-0022
BA-0022
BA-0022
BA-0022
BA-0022
BA-0022
BA-0022
BA-0022
BA-0022
BA-0022
BA-0022
BA-0022
BA-0022
BA-0022
BA-0022
BA-0022
BA-0022
BA-0022
BA-0022
BA-0022
BA-0022
BA-0022
BA-0022
BA-0022
BA | PO-0146 BA-0070 BA-0072 BA-0010 PA-00105 PO-0005 PO-0005 | |
 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
 | | |
| Lake Pontchartrain & Vicinty,
Lake Borgne Surge Barrier
LPV-IHNC-02
SELA | 0514 | SELA | Permanent Closure of Canals
and Pumps | West Shore Lake Pontchartrain | Lake Pontchartrain and Vicinity | Lake Pontchartrain & Vkinty,
Seabrook Lock LPV-IHNC-01 | HSDRRS Miligation- LPV | LPV Task Force Guardian
Miligation-Barou Sauvage | | Previously Authorized
Mitigation LPV- Manchac | Previously Authonized
Mitigation LPV- Mianchae
LCA Small Bayou Latourche
Reptroduction | Previously Authorized
Miligation LPV-M archiac
LCA. Small Bayou Lafourche
Reintroduction
Denic seed Dreedgim part Myrtle
Corror | Previously Authorized
Miligation LPV- Marchas
LCA. Simali Bayou L Alburche
Reinfoudetion
Desize and Diversion with
Desize and Diversion
Cot Modification of Davis
Pond Diversion | Previously Authorized
Mitgation LPV- Manchas
LCA. Simall Bayou Lafourche
Rocking and Diversion with
Diorise and Diversion of Davis
Pond Diversion
LCA. Modification of Davis
Pond Diversion | ¹ Periously Authorited
Milgration LPV. Marchac
ICA. Strinal Rayou Lafourche
Reintroduction
Detrie est Direpting al Myrtis
Detrie est Direpting al Myrtis
Detrie est Direpting al Myrtis
Detrie CA. Modific alton of Davis
Pond Diversion
LCA. Modific alton of Davis
Pond Diversion
LCA. Mille Calon Diversion at
UCA. Mille Calon Diversion at
UCA. Mille S. Dich. | Previously Authorized
Mitigation LPV-Manchac
Mitigation Lefourche
Reinfroduction
LCA Medum Diversion with
Deck sted Dredging at Myrtle
Deck sted Dredging at Myrtle
Orows
Pond Diversion
LCA Medim Drevesion at
URINE's Dich
UCA Baratana Basin Barner
Biordine' - 2007 | Previously Authorized
Miligation LPV- Manchas
Ruck Remains and Lance
LCA Medium Diversion with
Device and Diversion with
Device and Diversion
CCA Modification of Davis
Pond Diversion
CCA Modification of
CCA Modification of
CCC | Previously Authorized
Milyadkin LPV- Manchae
LLCA Simal Bayou L Mourche
LLCA Medium Dhersion with
Dincir alen Oreging at Myrtik
LLCA Medium Dhersion of
Caentra and Oreging
LLCA Medium Dhersion at
UCA Medium Dhersion at
UCA Medium Dhersion at
UCA Medium Dhersion at
UCA Mediam Base Barner
Discolare. 2007
Buble
Duck BeneficialUse Fessibility
Blugh
Blugh
Manugement Study | Previously Authorized
Miligation LPV- Manchae
LCA Small Bayou L Mourche
Roth Wedom Diversion with
Direct aled Direction of Davis
LCA Meditication of Davis
Direct aleast Direction
LCA Meditication of Davis
LCA Meditication of Davis | Previously Authorized
Magatan LPV- Manchas
Ruck Small Bryou L Mourche
Ruck Small Bryou L Mourche
Ruck Service and Diredging at Myrtle
Distor and Diversion with
Distor and Diversion of Diaris
Pond Diversion of Diaris
Pond Diversion at Common
Common Diversion at
Writes Distor
Common Diversion at Hope Canal
Smal Diversion at Hope Canal
Smal Diversion at Hope Canal
Common Diversion at Common
Common Diversion at Common
Common Diversion at Common
Smal Diversion at Hope Canal
Common Diversion at Common
Smal Diversion at Common
Common Diversion at Common
Smal Diversion at Hope Canal | Prevousy Authorized
Mitgaton LPV- Manchac
LCA Small Bayou Latourche
Rentindouction
LCA Medium Diversion with
LCA Modific-ation of Davis
Pond Diversion of
LCA Modific-ation of Davis
Pond Diversion of
Cantineron Diversion at
Write's Dtch
Write's Dtch
Schorthon - 2007
Schorthon - 2007
Mital River
Contront Schorthon
Schorthon - 2007
Schorthon - 2007
Mital River
Schorthon - 2007
Schorthon - 2007
Sch | Previously Authorized
Miligation LPV-Marchae
LCA Simal Bin Joy L Mourche
Retroduction
LCA Medium Diversion with
Device and Diversion of Davis
Pond Diversion of Davis
Pond Diversion at
CLCA Medium Diversion at
UCA Medium Diversion at
UCA Medium Diversion at
LCA Medium Diversion at
UCA Median Diversion at
CLCA Median Diversion at
LCA Median Diversion at
CLCA Median Diversion at
Diversion at Diversion at
CLCA Median Diversion at
CLCA Median Diversion at
Diversion at Diversion at
CLCA Median Diversion at
Diversion at Diversion at
CLCA Median Diversion at
Diversion at Diversion at Diversion at
Diversion at Diversion at Diversion at Diversion at
Diversion at Diversion | Previously Authorized
Mitgation LPV- Marchas
LCA. Simal Bayou L Atourche
Ruch Simal Bayou L Atourche
LCA. Medum Diversion with
Discise and Diversion of Davis
Pond Diversion of Davis
Pond Diversion at
CLA Medum Diversion at
Withe Station Diversion at
Withe Station Diversion at
Withe Station Diversion at
Maragement Study
LCA Ministration
Anargement Study
CCA Ministration
Anargement Study
CCA Ministration
Anargement Study
CCA Ministration
Anargement Study
CCA Ministration
Anargement Study
CCA Ministration
CCA Mini | Previously Authorite ele
Magadium LPV- Marchas
LCA. Sinnall Bayou Lafourche
Reintroduction
Diotic action Diversion with
Diotic action of Davis
Prond Diversion
Diotic action of Davis
Prond Diversion at
UCA. Month Editor Di
LCA. Month Editor Di
LCA. Benktaria Basin Barrier
Bitoriten - 2007
Barrier Basin Basin Barrier
Bitoriten - 2007
Barrier Basin Basin
LCA. Frank Diversion at
And Mirscogn River Deta
Marchaster Basin Barrier
Commit Diversion at
Commit Diversion at
Commit Diversion
Canad Diversion at
Commit Diversion
Canad Diversion at
Commit Diversion
Commit Dive | Previously Authorized
Miligation LPV. Marchae
LCA. Small Bayou L Mourche
Reinfouderdon
UCA. Medium Diversion with
Divide and Diversion of Davis
Pond Diversion of Davis
Pond Diversion of Davis
Pond Diversion at
UCA. Brankfatt Diversion at
UCA. Brankfatt Diversion at
UCA. Brankfatt Diversion at
Marchae D | Previously Authorited
Milipation (LPV-M anchas
(LCA Small Bayou (afourche
Reintroduction)
Diete each Direpting at Myrtis
Diete each Direpting at Myrtis
ECA Month Each of Diaris
Food Diversion at
UCA Month Dieterson at
Mires Stehn Direct Diaris
Binding Previo Diaris (and
CAMMA Previound Binding
Strad Diversion at Hope Canal
CAMMA Previound Binding
Strad Diversion at Canal
UCA Month Previound Binding
Strad Diversion at Canal
UCA Amit Rheu Direct
Common Load and Gui
Revion Canal Diversion at
Canal Reviol Canal
UCA Core Diari Laka and Gui
Martin Montenn Leve attoration
Canad Reviol Diari
Canad Reviol Canal
UCA Core Diari Laka and Gui
Martin Montenn Leve attoration
Canad Reviolation
Canad Reviolution
Canad Reviolation
Canad Reviolution
Canad Reviolution
Canad Reviolation
Canad Rev | Previously Authorited
Mitgadium LPV- Marchas
LCA. Annuill Bayou Lafourche
Reintroduction
Diotic each Direpting at Myrths
Diotic each Directing at Myrths
Diotic each Diote D | Previously Authorized
Mitgadium LPV-Marchae
LCA. Small Bayou Lafourche
LCA. Medium Diversion with
Divice and Direpting at Myrths
Divice and Direpting at Myrths
Divice and Diversion of Davis
Pond Diversion at
CLA. Modific ation of Davis
Strong Diversion at
Marchae Long Rever
Strong Diversion at
Marchae Long Rever
Control Diversion at
Marchae Long Broden
Control And Ly Fer
Control And Author
Control and Strong Diversion
Control And Author
Control And Author
Control And Author
Control And Author
Control Barchael Long Broden
Control And Author
Control Barchael Diversion
Marcheol
Control And Author
Control Barchael Diversion
Medice
Control Barcharia Diversion
Medice
Control Barcharia Diversion
Medice
Control Barcharia Diversion |
| | HSDRRS La | HSDRRS | ar SAROSH | HSDRRS | P1 SAROSH | HSDRRS | HSDRRS H | HSDRRS | | HSDRRS M | REA
 | | | |
 | | | |
 | | | |
 | | | |
 | |

(30) (31) <th< th=""><th>rogram Namc</th><th></th><th>State Project Number</th><th>Type</th><th>Sponsor</th><th></th><th>Benefited</th><th></th><th></th><th></th><th></th><th></th></th<>	rogram Namc		State Project Number	Type	Sponsor		Benefited					
	RS Lake	Pontchartrain & Vicinty, Borgne Surge Barrier HNC-02	PO-0055	£	USACE	ST BERNARD. ORLEANS	N/A	2	2013	\$1,134,000,000	This project involves the construction of a Munticare Surge Barter across the fip of Lake Borgne cornecting the MRGO levees south of Bayou Blervenue with the GNWM levees East of Michoud Canal with floodgates at Bayou Blervenue and GNMM. This molect consists of dratrate and burno station emilets within Jadiensen Parish and Orleans. Parish, on both the need bark and weed	-
Image: control in the contro	RS SELA RS Permi	anent Closure of Canals urrips	PO-0057	01 HP	USACE	ORLEANS ORLEANS ORLEANS, JEFFERSON	N/A. N/A	N/A 0.34	Pending	\$1,170,974,586 \$614,800,000	This protect consists or diamage and protits station protects within 2 werehold reliant and universe actist, on sourcine exist and west bank of the Mississipping the Public Law 109-234, involves the design and construction of a permanent protection system for the outfail canals along 17th Street, Orleans Avenue, and London Avenue and instal purges and closure structures at or near the lakerbond outfail canals along 17th Street, Orleans Avenue, and London Avenue and instal purges and closure structures at or near the lakerbond	1,2
International Internat	RS West	Shore Lake Pontchartrain	8	₽	USACE	ST JOHN THE BAPTIST, ST CHARLES, ST JAMES, ARCENSION	N/A	27	Pending	\$898,584,586	This project involves the assessment of humic ane and storm reduction measures in a study area bounded by the Bornel Carre Spliw-are to the east. The Missessippi River to the south, Lakes Pontchartain and Miaurepas to the north, and the SL James Parish/Ascension Parish me to the west.	-
Image: section in the sectio	RS Lake	Pontchartrain and Vicinity		£	USACE	ST CHARLES, JEFFERSON	VIN	128	2010	\$3,852,000,000	Lake Pontchartrain and V.Linky (LPV) is the humicane protection program that involves approximately 30 humicane protection projects In East J afferson and SL. Charles P arishes.	1
Image: Imag: I		Pontchartrain & Vicinity, rook Lock LPV-IHNC-01	Ģ	랖		ORLEANS	N/A	0.5	2012	\$157,156,414	This project consists of a gale closure structure across the industrial Canal approximately 500 it South of the Ted Hickey Bridge at Lake Pontchartranto work in conjunction with the IHAIC Borgne Surge Banter.	-
Image: bold in the control of the contro of the contro of the control of the control of the control of		RRS Mitigation- LPV Cask Force Guardian	PO-0121	W	USACE	ST TAMMANY, ORLEANS	1089	N/A	Pending	\$85,000,000	This USACE project involves the inclementation of various restoration measures to mitigate wetland instacts associated with the construction of the Lake Pointchartain and Vicinity (JPV) project. This project is being ber by USACE and is 100% elevelally funded with approximately \$2,M titon and eated. This project is mitigating constructions by 1.2 zeros. Which we have when which and photometaley \$2,M titon and eated. The involution of hou- constructions by 1.2 zeros. Which we have when which and the construction for the inimization of non- constructions by 1.2 zeros.	-
Image: 1	RS Miliga RS Previc	tion-Barou Sauvage	PO-0145	MM, <p MC.SP</p 	USACE	ORLEANS ST JOHN THE	58 1329	VN	Pending 7/8/1905	\$780.000 \$22.985.958	exploraminent per variable to remember the international content process of a control in the internation of market per variable in the international per variable buffer with perversional per variable international per variable internatio	
Mutuality Mutuality <t< td=""><td></td><td>Kion LPV- Manchac Small Bayou Lafourche oduction</td><td>BA-0070</td><td>6</td><td>USACE</td><td>BAPTIST ASSUMPTION, LAFOURCHE</td><td>NIA</td><td>NIA</td><td>P ending/On Hold</td><td>\$133,500,000</td><td>trastil and reduce evolvion. The project will use a small diversion (besthan 5000 cfs) to reinforduce flow from the Mississippi River into Bayou Lafourche. Project goola include providing the swall diversion (besthan 5000 cfs) to reinforduce flow from the Mississippi River into Bayou Lafourche. Project goola include providing the swall diversion (besthan 5000 cfs) to reinforduce flow from the Mississippi River into Bayou Lafourche. Project goola include providing the swall diversion flow from the Under State state and the state scotter and and the flow from the Under State State State and the state scotter scotter and and the flow from the Under State State State and the flow from the Educe State State State and the state scotter sc</td><td>34</td></t<>		Kion LPV- Manchac Small Bayou Lafourche oduction	BA-0070	6	USACE	BAPTIST ASSUMPTION, LAFOURCHE	NIA	NIA	P ending/On Hold	\$133,500,000	trastil and reduce evolvion. The project will use a small diversion (besthan 5000 cfs) to reinforduce flow from the Mississippi River into Bayou Lafourche. Project goola include providing the swall diversion (besthan 5000 cfs) to reinforduce flow from the Mississippi River into Bayou Lafourche. Project goola include providing the swall diversion (besthan 5000 cfs) to reinforduce flow from the Mississippi River into Bayou Lafourche. Project goola include providing the swall diversion flow from the Under State state and the state scotter and and the flow from the Under State State State and the state scotter scotter and and the flow from the Under State State State and the flow from the Educe State State State and the state scotter sc	34
Matrix Matrix<	-		BA-0071	FD	USACE	PLAQUEMINES	NA	NA	Pending/On Hold	\$278,300,000	техни поскотемена пакток замони или и полотить. Стить поли пли воздета ализов чи си част или на жаке з как. Нана технитехника. Поли поли поли поли поли продукти поли поли поли поли поли поли поли пол	2
Number Number<	1		BA-0072	6	USACE	ST CHARLES, JEFFERSON,	N/A	NIA	Pending/On Hold	\$68,277,885	and march expansion. Furly fundes Phase 2 cost taken frem VFRDA 2007 legislation. This modification project is authorized to study and design the modification of the structure and or outfall of the diversion for increase	2
Million Million </td <td>1 10</td> <td>Diversion Modification of tarron Diversion</td> <td>BS-0019</td> <td>g</td> <td>USACE</td> <td>PLAQUEMINES, LAFOURCHE ST BERNARD, PLAOUEMINES</td> <td>VN</td> <td>VN</td> <td>Pending/On Hold</td> <td>\$21,000,000</td> <td>wetland restoardon outputs within the Baukaria Basin. The modulation project is automoted to study and decign the modific atom of the diversion structure and/or outfail of the diversion to Increases wetland restoration outputs source of calentimeron. we do it the Missiositot Rever.</td> <td>-</td>	1 10	Diversion Modification of tarron Diversion	BS-0019	g	USACE	PLAQUEMINES, LAFOURCHE ST BERNARD, PLAOUEMINES	VN	VN	Pending/On Hold	\$21,000,000	wetland restoardon outputs within the Baukaria Basin. The modulation project is automoted to study and decign the modific atom of the diversion structure and/or outfail of the diversion to Increases wetland restoration outputs source of calentimeron. we do it the Missiositot Rever.	-
mutuality mutuality <t< td=""><td></td><td>Medium Diversion at Vs Ditch</td><td>BS-0020</td><td>9</td><td>USACE</td><td>PLAQUEMINES JEFFERSON,</td><td>N/A</td><td>N/A</td><td>Pending/On Hold</td><td>\$126,686,400</td><td>A median develop formulae Missission enter into the certical River aux Chennes area using a controlled structure to provide additional the shreaker, nothents, and the sediment to the area between the Missission River and Chenne subcrute structure to provide additional the shreaker.</td><td>-</td></t<>		Medium Diversion at Vs Ditch	BS-0020	9	USACE	PLAQUEMINES JEFFERSON,	N/A	N/A	Pending/On Hold	\$126,686,400	A median develop formulae Missission enter into the certical River aux Chennes area using a controlled structure to provide additional the shreaker, nothents, and the sediment to the area between the Missission River and Chenne subcrute structure to provide additional the shreaker.	-
Model Model <th< td=""><td></td><td>Janataria basar barrer Alhe - 2007 Benefic lal Use Feasibility</td><td>LA-0010 LA-0019</td><td>MC, BH DM</td><td>USACE</td><td>PLAQUEMINES, LAFOURCHE COASTWIDE</td><td>NIA</td><td>NIA NIA</td><td>Pending/On Hold Pending/On Hold</td><td>\$100,000,000</td><td>The purpose of this project is to provide boach/durin restoration and marsh creation on Caminada Headalands and Sheil stand. This Feasibility Study will examine increased beneficial use of dredged material from Federally aufhorized navigation channels.</td><td>2 COASTI</td></th<>		Janataria basar barrer Alhe - 2007 Benefic lal Use Feasibility	LA-0010 LA-0019	MC, BH DM	USACE	PLAQUEMINES, LAFOURCHE COASTWIDE	NIA	NIA NIA	Pending/On Hold Pending/On Hold	\$100,000,000	The purpose of this project is to provide boach/durin restoration and marsh creation on Caminada Headalands and Sheil stand. This Feasibility Study will examine increased beneficial use of dredged material from Federally aufhorized navigation channels.	2 COASTI
matrix matrix<		Misclestippi River Detta gement Study	MR-0016	OT	USACE	PLAQUEMINES	VIN	VN	Pending/On Hold	\$25,358,136	This project involves the development of a strategic framework for feasibility evaluation of improved management of fresh water, Instrincts, and a optimizer resources of the Lower Mississippi Raver, from the Old River Control Structure to Head of Passes, to better sustain to getter Plan.	1, 2
Image: biology of the participant of the partitipant of the partity of the partity of the partity of the		Diversion at Hope Canal	PO-0067	FD	USACE	ST JOHN THE BAPTIST	NA	NA	Pending/On Hold	\$150,000,000	This project evaluates a small freshwater diversion (ses than 5000 cfs) to introduce sediment and nutrients into Maurepas Swamp in Locater for taking organic deposition, improve introduce advantance determination of the swamp. The state is using surputs funds as part of the required costation for the project. Furthy funded Phase 2 cost provided at the transfer detrades.	۲
Matrix and a state of		Small Diversion at ent / Blind River Amite River Diversion	PO-0068	FD	USACE	ST JAMES, ASCENSION	N/A	N/A	Pending/On Hold	\$123,140,000	This project evaluates a small observant of up to 5,000 cfs from the Mississippi River into the titled River through a new control structure to introduce the interfactor, before a production of the counterfactor and or the interfactor and or the interf	-
Matrix Matrix<		I Modification sferred) Maintain Land Bridge	PO-0069	VP. HR	USACE	ASCENSION	MA	MA	Transferred	\$10,760,000	The year on the public to viewalestim tructury. Curriterion remeating and the public of the public o	-
Number of the state o	AREA BOWN	een Callou Lake and Gulf xico Point Au Fer	TE-0067 TE-0068	NO d	USACE	TERREBONNE	NIA	NIA	Pending/On Hold Pendina/On Hold	\$62,600,000 \$48.300,000	and Grand Boyu du Lange, march creation, and course of new promed channels and to minimize salwater inbusion, prevent guf stone empian and increase freehwater informers on markinse in project area. The goal of the project is to stabilize guf shorefine of Point Au F et island to prevent direct connection between guf and interior water	34
Image: state in the state in thesttate in the state in the state in the state in the s	AREA LCA 1 ANA LCA 1 AREA Shore	Ferrebonne Basin Barrier Aine Restoration	TE-0070	H	USACE	TERREBONNE	VIN	VIN	Pending/On Hold	\$133,300,000	I podiest interest preventing conversion of acting paralitatism manual mabulat. This provides for the restantian of the Trinshaker and Isles Deminers barner island chains. This would smulab historical conditions by roducing the current number of breacheo, enlarging (width and sume creach of the lales Deminers b	34
	ANA UCA (LAREA Water	Convey Atchafalaya River r to Northern Terrebonne nes	TE-0071	HR	USACE	TERREBONNE	NIA	NIA	Pending/On Hold	\$349,995,500	rsama. Intern trainu, in the teatro, and interest teatori. Interest isomo, and east interest isomo. The project would increase existing Akh Malaya River influence to central (Lake Boudreau) and eastern (Grand Bayou) Terrebonne Interesters with Guilt Interosts instances (Jointyou).	34
mutual local local <t< td=""><td></td><td>nada Headland Beach une Restoration</td><td>BA-0143</td><td>HB</td><td>NIA</td><td>JEFFERSON, LAFOURCHE</td><td>532</td><td>N/A</td><td>2016</td><td>\$147,063,587</td><td>This project will restore and protect beach and durie habital across the Carminada Headland through the direct placement of approximates 2.4 million cubic yards of sandy minetal from Silo Silo and Sindon Silo and Sindon Silo Silo and Sindon Silo Silo and Sindon Silo Silo and Sindon Silo Silo and Silo Silo and Silo Silo and Silo Silo Silo Silo Silo Silo Silo Silo</td><td>2</td></t<>		nada Headland Beach une Restoration	BA-0143	HB	NIA	JEFFERSON, LAFOURCHE	532	N/A	2016	\$147,063,587	This project will restore and protect beach and durie habital across the Carminada Headland through the direct placement of approximates 2.4 million cubic yards of sandy minetal from Silo Silo and Sindon Silo and Sindon Silo Silo and Sindon Silo Silo and Sindon Silo Silo and Sindon Silo Silo and Silo Silo and Silo Silo and Silo Silo Silo Silo Silo Silo Silo Silo	2
Image: Imag: Image: Image: Image: Image: Image: I		nent 2									iredanced The MBSD is along and controller chi works and restoration protect. MBSD, when in operation, would frant/er sedment-laden water from the Missestand Render and set Anomedian channel for motion 1 - for mechanism case that have alon and,	
0 (0) 0 (0) <th< td=""><td>IF MIG-B</td><td>arataria Dwersion</td><td>BA-0153</td><td>ß</td><td>NIA</td><td>PLAQUEMINES</td><td>68,000</td><td>NIA</td><td>Pending</td><td>In Development</td><td>eventue measupprivate invoju a servicimento upur iz zinne sougi prove outeniem posta. Bardana Bara, The poste Vint readore the natural defact, and softmentation processes along the Missessipti River nat River Mile Bi 7 just north of inonton. The MBSD would be expected to build and nourish ten to http://pousand.acres.of.cntical.coastaiwettands.over a 90 year period, being a top confibutor to the 2012 Master Plan's goal of achieving no red loss of fail an thre Mure.</td><td>2</td></th<>	IF MIG-B	arataria Dwersion	BA-0153	ß	NIA	PLAQUEMINES	68,000	NIA	Pending	In Development	eventue measupprivate invoju a servicimento upur iz zinne sougi prove outeniem posta. Bardana Bara, The poste Vint readore the natural defact, and softmentation processes along the Missessipti River nat River Mile Bi 7 just north of inonton. The MBSD would be expected to build and nourish ten to http://pousand.acres.of.cntical.coastaiwettands.over a 90 year period, being a top confibutor to the 2012 Master Plan's goal of achieving no red loss of fail an thre Mure.	2
Image:		r Barataria Diversion	BA-0163	ß	VIN	PLAQUEMINES	In Development	VIN	V/N	In Development	The purpose of the project is to construct a settiment diversion to transport exitiment from the Allessopic Dave Dave Dava data Baars to receitable distate processors in order to build, sustain, and manitan weitands. The project intends to build a codiment diversion to the bowe Baarland Bar in the whith of Entries around 50,000 cits capacity.	2
Image: problem in the proble		r Breton Diversion	BS-0023	SD	NIA	PLAQUEMINES	In Development	NIA	NIA	In Development	The purpose of the project is to construct a sediment diversion to it zanaport sediment from the Nassiskipt Rave that but but Lower Bhelon Sound Basin to restabilish detaic processes in order to buily, sustain, and mankain webands. The project intends to build a sediment diversion in the lower Branks Sound in the weiter of Diake test anoth 50. UNU des aspects.	+
AndNoteNot	gram Name		State Project	Project	Federal	Parish	Acres	ONGOIN	G PROTECTIO	N AND RESTC Total Budget	RATION SUMMARIES	Planning
No. No. <td>F MIG B</td> <td>reton Diversion</td> <td>BS-0030</td> <td>DI DI</td> <td>Sponsor</td> <td>PLAQUEMINES</td> <td>Benefited</td> <td>Levee</td> <td>Completion</td> <td>In Development</td> <td>The purpose of this project is to evaluate a sodiment diversion located in the vie hity of White Dich around 75,000 cfs.</td> <td>-</td>	F MIG B	reton Diversion	BS-0030	DI DI	Sponsor	PLAQUEMINES	Benefited	Levee	Completion	In Development	The purpose of this project is to evaluate a sodiment diversion located in the vie hity of White Dich around 75,000 cfs.	-
Number Total Units Units </td <td>F Increa</td> <td>ese Atchafalaya F low to r Terrebonne</td> <td>TE-0110</td> <td>SD</td> <td>VN</td> <td>TERREBONNE</td> <td>In Development</td> <td>VIN</td> <td>Pending</td> <td>In Development</td> <td>purpose of ands within arou Boeuf</td> <td>34, 3</td>	F Increa	ese Atchafalaya F low to r Terrebonne	TE-0110	SD	VN	TERREBONNE	In Development	VIN	Pending	In Development	purpose of ands within arou Boeuf	34, 3
Manualization Monto	E East 1 Doctor	I imballer Island redion	TE-0118	HB	VIN	LAFOURCHE	In Doublomment	NIA	Pending	\$74,000,000	This project will engineer and design a restoration of dune, supraticial, and intertial habitat, such that the two presently remaining, severely degreeded supreers will be connected and the historic stand holpmon pre-extraheders, which wall reprove that and ish	ΥS
Antiolic biolBiol </td <td>Cheni</td> <td>ere Ronquille Barrier</td> <td>BA-0076</td> <td>BH, MC</td> <td>_</td> <td>PLAQUEMINES</td> <td>408</td> <td>NIA</td> <td>Pending</td> <td>\$38,883,175</td> <td>habitst, heb protect oil and gas infrastructure, and provide hunciane surge protection for western Lafourche Parish. The objective of this project is to prevent breaching of the barrier shoreine by restoring the dune and marsh platform. Projectiwas</td> <td>2</td>	Cheni	ere Ronquille Barrier	BA-0076	BH, MC	_	PLAQUEMINES	408	NIA	Pending	\$38,883,175	habitst, heb protect oil and gas infrastructure, and provide hunciane surge protection for western Lafourche Parish. The objective of this project is to prevent breaching of the barrier shoreine by restoring the dune and marsh platform. Projectiwas	2
Montroling in the control of the contro of the control of the control of the control of the control of th	A Shelli	Island West- NRDA	BA-0111	H		AQUEMIN	347	VN	Pending	\$110.524,280	resource numer covertor on we seek recto, numes nor construction. This project aams to restatue the integrty of the Shell Sland Week braner Island, reduce were energies within the bay area, and recessibility productive habitat to Bactian Bay and the surrounding area. If will create 328 acres of march and 372 acres of dune and beach.	8
Activity ac	a Creat	Hermitage Marsh Ion Increment 2	BA-0141	WC	NIA	PLAQUEMINES	101	N/A	2014	\$139,000,000	This project will create full acres of march building off of the BA-42 Lake Hernitage CWPPFAA project ublang NFDA early resonation funds. This project a set of the set of the set of the BA-42 Lake Hernitage CWPPFAA project ublang NFDA early resonation	2
International Internat	guee A	n Bess Island Restoration	BA-0202	HB	NIA	JEFFERSON	36	NIA	NIA	\$20,000,000	Traint's parties to approximatery to action tryputers, according that the expensional providers according sociation rouns are according to according to the acc	2
Rund Martin Colubio		aria Basin Ridge and h Creation - Spanish Pass nent	BA-0203	WC	NIA	PLAQUEMINES	1254	N/A	NIA	\$124,500,000	Spanish Passis a natural histork broutary of the Mississippi Riveri tocated west of Venkie, Louisiana. The natural channel banks and adjacent marsh have degraded due to natural and mammade causes. The nidge restoration eature of this project will restore 120 acres of entern nidge. The marsh treation feature of this project will drogge sedment from the Mississippi River, near Venice, LA, to create caponinstery 1.134 across of marsh.	2
Instruction Form Note Form Note Form Note Form Note		t Island Restoration ct Borgne Marsh Creation -	CS-0080 PO-0180	HB OW	N/A N/A	CAMERON ST BERNARD	200	N/A	NIA NIA	\$27,000,000 \$127,000.000	The primer paid the project site relates birt buttaff by chaption malerial form the Castawa USA forming and the Island abony with constructing tock dises and durines. Approximately 200 acress of bird habitah will be restored This project with reader processing a durine and an ending approximately four mise from Shell Beach on the southern rim of	4 -
Incomparising 	П	nent One A Cailou Lake Headlands	TE-0100	н	N/A	TERREBONNE	1272	N/A	Pending	\$111,309,000	These torong and to the Austration for mise year. These more than to remain the Whiteker than the second of the second second second second second to the second second second second second second second these second second second second second second second second hashed.	3A
august bit internet production production <t< td=""><td></td><td>bonne Basin Ridge and h Creation - Bayou bonne Increment</td><td>TE-0139</td><td>WC</td><td>NIA</td><td>TERREBONNE</td><td>1496</td><td>NIA</td><td>NIA</td><td>\$126,000,000</td><td>In order to determine the intervention of the intervention of the due of the provided with the provided in weather the therefore the intervention of the due of the intervention of the mast creation feature of this project will drive a section of the mast creation feature of this project will drive a section of the mast creation feature of this project will drive a section of the mast creation feature of this project will drive a section of the mast creation feature of this project will drive a section of the mast creation feature of this project will drive a section of the mast creation feature of this project will drive a section of the mast create 1,370 acres of marsh. This increment is part of the mast creation feature of this project will drive a section of the mast creation of the mast creat</td><td>æ</td></t<>		bonne Basin Ridge and h Creation - Bayou bonne Increment	TE-0139	WC	NIA	TERREBONNE	1496	NIA	NIA	\$126,000,000	In order to determine the intervention of the intervention of the due of the provided with the provided in weather the therefore the intervention of the due of the intervention of the mast creation feature of this project will drive a section of the mast creation feature of this project will drive a section of the mast creation feature of this project will drive a section of the mast creation feature of this project will drive a section of the mast creation feature of this project will drive a section of the mast creation feature of this project will drive a section of the mast creation feature of this project will drive a section of the mast create 1,370 acres of marsh. This increment is part of the mast creation feature of this project will drive a section of the mast creation of the mast creat	æ
Model Model <th< td=""><td></td><td>ontchartrain</td><td>нрымп</td><td>ď</td><td>NIA</td><td>ST JOHN THE BAPTIST</td><td>600</td><td>N/A</td><td>1996</td><td>\$2,222,892</td><td>This project consisted of a near-shore, segmented brakwater oviem in Lake P onichafran parallel to a five-rink reach of the M anchisc Waller & Man Area. The project specificatly indigated for damages resulting from construction of the Lake Pontchartian Huma and Printerion and the construction of the Lake P onichartian parallel to a five Pontchartian.</td><td>-</td></th<>		ontchartrain	нрымп	ď	NIA	ST JOHN THE BAPTIST	600	N/A	1996	\$2,222,892	This project consisted of a near-shore, segmented brakwater oviem in Lake P onichafran parallel to a five-rink reach of the M anchisc Waller & Man Area. The project specificatly indigated for damages resulting from construction of the Lake Pontchartian Huma and Printerion and the construction of the Lake P onichartian parallel to a five Pontchartian.	-
Image: control in the contr	Coast Outre	al Wetlands Public ach	NIA	01	NIA	NIA	NIA	NJA	NIA	\$400,000	The DNF Public Information Onfice provides a carriery of printed materials, educ ational videos and c.d., fast cheets, website information, and a traveative aveilands enablic for the guotis. Coller despartment of users information traveation and strave aveilarings, civic events, and school activities. Much of the agency's educ ational outneach is in partnership with the Breaux Art Task. Force committees and a hereiness with Link cirrengate as a securit of working in several noise a strings, writers and reporters, the Public information and the Americas WEI. That Cirrengate is an assured working in several noise a strings, writers and reporters, the Public information	COAST
Wurdinarier auf statisticutio BM 101 BH Num die FEFEGIOI Devolution Num die School and die Version and die die Architeria and die Arc		Grand Terro Reach					5				Office has contributed to the publishing of hundrades of national articles over the past years. To contact the Louislana Department of Natural Recourses? Public Information Office online — Info@dmt.state.la.us. The neuter would commons the composition and decision to huld an ordination of 1 2 fth fact of backh and runne methods in th fis a server of	
CARGING THE TARGENT CARETONNuCARETONNuTendingIncludeIncludeContrant <th< td=""><td></td><td>shment and Stabilization</td><td>BA-0197</td><td>H</td><td>VN</td><td>JEFFERSON</td><td>Development</td><td>VN</td><td>NA</td><td>\$65,000,694</td><td>the Bredet market and and and the transformed to grow of taking the and the second of the contract of a neuron of the second of the transformed to grow of taking the second of the second of the transformed of the transformed to the second of the transformed of the transformed to the second of the transformed of the transformed</td><td>3</td></th<>		shment and Stabilization	BA-0197	H	VN	JEFFERSON	Development	VN	NA	\$65,000,694	the Bredet market and and and the transformed to grow of taking the and the second of the contract of a neuron of the second of the transformed to grow of taking the second of the second of the transformed of the transformed to the second of the transformed of the transformed to the second of the transformed	3
Purprise Part of the production to be observed. Part of the production to be observed. Part of the production to the provise the production of the provise the production of the provise the provise the provise the provise the production of the provise the	RE Calca	sieu Ship Channel Salhily ol Measures	C8-0065	뜌	NIA	CAMERON	In Development	N/A	Pending	In Development	reduce the rate of welfand toss in the surrounding welfands. The project Intends to construct features to prevent safevaler from entering welfands adjustent to Cata sale Lake Inhough the Cata saleu Ship Channel. M easures would control safety spaces and would be constructed in a manner that would allow for the contribution that the dealer intervenent and not reased visibility of the Cata saleu Ship Channel. M easures would control safety spaces and would be constructed in a manner that would allow for the continued functioning and black intervenent and not reased visibility of the Cata saleu Ship Channel.	4
Content many partial No. No. No. No. No. No. Set.550,200 Partial No. Set.500,200 Partial No. Set.500,200 Partial No. Set.500,200 Partial No. Set.500,200 Partial No. Partial Partia Partial Partial </td <td></td> <td>Reintroduction into spas Swamp</td> <td></td> <td>Ð</td> <td>EPA</td> <td>ST JOHN THE BAPTIST, ST JAMES</td> <td>36121</td> <td>VN</td> <td>Pending</td> <td>\$147,028,735</td> <td>This project intends to restore a natural hydrologic regime and increase nutrient inputs in cyprese-lupido swamp træcts south of Lake Maurepase through the diversion of Missicalepic River water into an area of degraded swamp. The project was originally proposed under CVPPEA but underwent subsequent development as a State-only project.</td> <td>-</td>		Reintroduction into spas Swamp		Ð	EPA	ST JOHN THE BAPTIST, ST JAMES	36121	VN	Pending	\$147,028,735	This project intends to restore a natural hydrologic regime and increase nutrient inputs in cyprese-lupido swamp træcts south of Lake Maurepase through the diversion of Missicalepic River water into an area of degraded swamp. The project was originally proposed under CVPPEA but underwent subsequent development as a State-only project.	-
Biold Marth Uhrg Shotelere Po 0114 SP NA ST BERNARD NA \$\$57,113,71 The polote vould croate a hing breakwater dructure by mechanicably peering a manufacture of anutatio, or auto of fanctures, of the Provine ratio Proveine Teologe Her NA \$\$57,113,71 The poloret would croate a hing breakwater dructure by mechanicably peering and ratio of an exclusion of the proveine and period and mechanicably beering and and mechanicably breakmater dructure by mechanicably beering and and mechanicably and mechanicably and mechanicably and mechanicably beering and and mechanicably beering and and mechanicably beering and and mechanicably beering and	RE Golds Creat	n Triangle Marsh Ion	PO-0163	MC	NIA	ORLEANS, ST BERNARD	Development	NIA	NIA	\$54,550,330	This project would complete the angineering and design to create approximately bill acres of marsh within the Colden Triange Marsh system.	-
Outmat Nargadon Canal Lock TE 0113 HR NuA TERREBONUE In Previournent The Houman Navgadon Canal Lock Complex (TE-11:) is a part of the Mogarats the Gut of Mex to Hundrean Profetered Projection Profetered Profetered Profection Profetered Profetered Profeser Profetered Profese Profeter Profeter Profeter Profete Profete Profetered Profese Profetered Profese		March Living Shoreline ct	PO-0174	S	VIN	ST BERNARD	In Development	VN	VIN	\$57,719,731	aate a living breakwater structure by mac and Eloi Point, near the mouth of Bayou	+
Ref Complexand Complexand <td>RE Hour</td> <td>na Navigation Canal Lock</td> <td>TE-0113</td> <td>뚜</td> <td>VIN</td> <td>TERREBONNE</td> <td>In Development</td> <td>VN</td> <td>Pending</td> <td>In Development</td> <td>The Houma Navgaton Canal Lock Complex (TE-113) is a part of the Morganza to the Guf of Mack o Hunk and Protection Project. The structure will provide storm surge protection, increase freatwater distribution, and provide navigation and provide storm surge protection. And and the Morganian Canat. The initial step is to meet with stateholders to discuss alternative design considerations for optimization of the MoC Lock.</td> <td>ЗV</td>	RE Hour	na Navigation Canal Lock	TE-0113	뚜	VIN	TERREBONNE	In Development	VN	Pending	In Development	The Houma Navgaton Canal Lock Complex (TE-113) is a part of the Morganza to the Guf of Mack o Hunk and Protection Project. The structure will provide storm surge protection, increase freatwater distribution, and provide navigation and provide storm surge protection. And and the Morganian Canat. The initial step is to meet with stateholders to discuss alternative design considerations for optimization of the MoC Lock.	ЗV
RECOL, Unerform Nax Disa Usa Iso Nas 1550,000 This Section 734 project unterformation and method and and water and and and water and and and water and and and water and	04/1135 MRG	0, Breton Island	NIA	MO	USACE	PLAQUEMINES	26	NIA	1999	\$1,050,000	Complex and determine a preferred design. The next step will be to conduct Engineering and Design of the preferred design. The Section 204 project utilized material from mantenance dredging activities along the Mississipil River Out Outlet (MROO) to repar	-
and the servery of the first of	04/1135 Mile -	0, Breton Island Berm, 2 to -3	NIA	MO	USACE	PLAQUEMINES	NA	NIA	1999	\$150,000	This account 204 project utilized national from maintenance dredging activities along the Mississippi River Out Outlet (MROO) to This science 204 project utilized national from maintenance dredging activities along the Mississippi River Out Toucial have along activities and onder dredging the from including particular synaps of material into statiowwater adjacent to the	-
MB 4 16 12 (2002) VIA DM USACE ST BERNARD 50 M USACE ST BERNARD 50 M M 14 16 12 (2003) VIA DM USACE ST BERNARD 113 M M 14 16 12 (2003) VIA DM USACE ST BERNARD 113 M M M VIAMMAR, M M VIAMMAR, M DM USACE UEFFERSON 125 M	04/1135 Borm	ssippi River Gulf Outlet , Mile 14 to 11 server Gulf Outlet	VIN	M	USACE	ST BERNARD	20	VN	1999	\$350,000	courb jetty at about mee 15.3. The material was diredged from miles 14.0 to 11.0 of the Missesspir River our Courter (MRGO) interrigation member and based to an elevation constructive to marker weakdam regulationment. The nonser inconser inconser and monocourt 15 control works to reast some 51 areas of monocheb habited and 2020 Jan. The	-
Alle 14 to 12 (2003) NIA DM USACE Saratata Bay Waterway, Mile NIA DM USACE	04/11/35 Misse Missio	ssppremer Gur Outlet, 4 to 12 (2002) ssippl River Gur Outlet,	MM	WO	USACE	ST BERNARD	50	NIA	2002	\$290,000	The project rower by improve processery 1 or much curve years to carea years our a cares or end of the Micro Deny. This project was fast tasked our bine maps of Hunrit same Lill and Tropical Storm Islande in 2000. The material was dredged from makes This project involved purpling 4.3 million curk years of sediments to create 11.3 acres of marsh. The material was dredged from makes	
2 10 11 10	04/1135 Mile 1 04/1135 Barati	4 to 12 (2003) aria Bay W aterway, Mile	NIA	MO	USACE	ST BERNARD	113	MN	2003	\$580,000	14.0 to 12.0 of the Mississippi River Gut Outlet (MRGO) navigation channel and placed at an elevation conducive to marsh vegetation establishment.	-

Planning Unit	2	dife 4	tuled 3A	2	u of the 3A i and	rds 4	38	38	near 2	.0n 2	alwas 2	16 2	ador. neđ 2		u fence any In 2											N. N	N N N N N N N N N N
	it of 600,000 cubic yards of material dredged from the Barataria	The adverse teactory to unsear regions on one use not send to the end of the send. The section 204 provides for the disposal of dedged malerial encoved from the area between mile 7.5 and 11.5 of the Cabaseus (BAD Channel, A Phal of A million cuby yards of malerial encoved from the area between mile 7.5 and 11.5 of the	eluge at an elevation conducive to march creation. This Section 20441135 project was a cooperative entor with the USACE and included the use of beneficial dredging from a scheduled	Theorem reargance of the project provides provident project to reactor entrine searce. Theorem reargance provides for the beneficial placement of 60,000 cubic yards of dredged material from the Barataria Bay Wateward (BBWW) to create worklands on stand Them Istand 2000 cubic yards of dredged material from the Barataria	This Section 20411135 project investigated the feasibility of boneficially using the dredged material from the bar channel area in lieu of the O cean Dredged Material Disposal Sile. The project area is approximately 35 miles south of Hourna. Loukiana at the mouth of the reasigned or channel in Terreborne Bay. The construction schedule of this project twas expedited due to the inpact of Hum's are Lit and roweal streme reasons.	The process user insertion. The process the second possible, the natural indexlogy of the area. A reduction in march loss and improved water conditions are expected to occur following project implementation. Long-term water management objectives will be contrained a backdism and second and any area of the second and area are area and and and and area of a second	This feasibility study is intended to evaluate options and attendes for providing urban drainage and flood reduction to the City of Measurdiss and irringation and flood reduction benefits to anniculturals areas south and southeast of the c.M.	n the Atchafalaya Swarrp.	This project involved the construction of eight paratel sphons to divert water from the Missussippi River into the adjacent wetlands near Natori, Louisiana. The maximum discharge of the sphons is 2,100 cfs.	This project involved the construction of eight paralet schrons to divert wake from the Mississippin River into the adjacent wethands on the west side of the river near Pointe a la Hache, Louisiana. The maximum discharge of the sphore is 2,100 cfs.	The purpose of this project is to restore Queen Bess Island as a brown patkan (Pelecanus occidentials) rookey. Dredged material added the bisland to menage its size in 13 and a word known awa missible around the permeter of the updated shar in 1923 to more the shortine. The area has known averatized and the number of osize an ests on the Island in treased after orient of 202 to amough the provider.	placed on 7,400 feet of shoreline to restore the physical integration and Bale du Cabanage.	The purpose of this project is to build a rock dive that will protect the mast's shoreline along the northeastem portion of Lake Sakador The shoreline protection project was built on the land to avoid dredging in an area with cultural resources. This project was designed as an extension of the BA-15 Phase ii CVM PPPA project.		This project moded the construction of a 6,900-boil irrelations rook herm to participes the bank herear Liebe Sandar and Barou Segnete and the installation of a trinder pring free across an abandoned access and that connects the here water bodies. The free is is designed to relative water energies and receive from the laker while sharing bank and access and additional Additional CAPEA funds were approximation the observationed access and that connects the here varies dodies. The free is then 1986 1996 freat were approximation the observation and and the project was necessary in the 1986 1996 freat were access trinder or the observation of this date. Junided project, maniferrance of this project was necessary in	This project incolved the construction of a 6,900-food investore toxic berm to retriforce the bank between Lake Sakedor and Barou Segreter and the installation of a finite-printing the calculate and anothing the transition for the finite sectors and the context the level and square bodies. The finite selection to incort the stallation of a finite-printing the calculate state while still allowing taking the finite state and a quare bodies. The finite a redgement to meture stallation and mode forces forces and mode and taking the finite state and the finite state and the finite state and the finite state and the distribution of the project was no constraints. A definite the state and a constant of the design of this state while still allowing taking the finite project was no constant in a state and the st	w rock therm to reprince the bank behavior. Lakes a substance and the advector and the babactorised access can all had connects the heve warde bolds. The lake works stal advoorge acharge or startment and aquate on of this state during to the advector and advector as no or this state during the project. Maniferrance of this project was no or to actor more advected during water to over 1,000 cds avou to accommodate a proposed intrafesed flow of 1,000 cds the Parish diredging design project.	This project involve dite construction of 6.800-0xal imagione reck bermin to intricre the bank between Law 8 Senadur and Bayo Segrette and the installation of a timber plang fence as non-an abandmoned access shall had romeets the hero water bodies. The segretter and the installation of a timber plang fence as non-an abandmoned access shall had romeets the hero water bodies. The segretter and the installation of a timber plang fence as non-an abandmoned access shall had romeets the hero water bodies. The segretter are an adverse and romeets and the state or basic had tomai Cwite Plenk, funder were approximation for the decaye in this state-funded project. Manifernance of this project was necess that the segret plane diversion into Bayou Lafourche will restore coastal imasthe's and provide dinking water to over 300,000 resis The Mississippi Riser diversion into Bayou Lafourche will restore coastal imasthe's and provide dinking water to over 300,000 resis This project funded the diredging of the fast is 7 miles of the bayou to accommodate a proposed increased flow of 1,000 cfs. This project funded the diredging of the fast is 7 miles of the bayou to accommodate a proposed increased flow of 1,000 cfs. This project funded the diredging of the fast is 7 miles of the bayou to accommodate a proposed increased flow of 1,000 cfs. This project funded the diredging of the fast is 7 miles of the bayou to accommodate a proposed increased flow of 1,000 cfs. This project will provide 051a do not the fast is 7 miles of the bayou to accommodate a proposed increased flow of 1,000 cfs.	The project and the installation of a moler pring fere across an abandoned access canditable when Lake Sandar and Baou segmethe and the installation of a moler pring fere across an abandoned access canditable to monets the how water bodies. The fee segmethe and the installation of a moler pring fere across an abandoned access canditable dimange of sement and aquate bodies. The fee segmethe and the installation of a moler pring fere across an abandoned access canditable dimange of sement and aquate bodies. The fee segmether and the installation of a moler pring fere across an abandoned access canditable dimange of sement and aquate bodies. The fee segmether is an access and recover entres from the kale while state induced project. Mantendine of this projectives an accessing induced project provided State funding to supplement a Plaaumines Parish diredging design project. This project provided State funding to supplement a Plaaumines Parish diredging design project. This project provided State funding to supplement a Plaaumines Parish diredging design project. This project provided State funding to supplement a Plaaumines Parish diredging design project. This project will provide food protection frantorements or its face filmer feet of origing design project. This project wall provided for description frantorements or institute is 6.0 keV.D.	Separate involved the construction of a 6.800-four threatener ock harm to artiforce than bulk-work work the Sakadora and E Separate and the statistick on Chinese pilot for earlors an abactomed access can all that connects the work to bles sectionees the main service and access the form the lake while atta allowing enhange of earling policit ware not additional CMP PFEAS funds were appropriated for the decign of this cable funded project. Manitemence of this project ware not additional CMP PFEAS funds were appropriated for the decign of this cable funded project. Manitemence of this project ware no additional CMP PFEAS funds were appropriated of the decign of this cable funded project. Manitemence of this project ware no additional CMP PFEAS funds were appropriated of the decign of this cable funded project. Manitemence of this project ware no be funded at the dredging of the REIS 2 release of the beyou to accommodate a proposed increased flow of 1,000 cts. This project structed the dredging of the REIS 2 release of the beyou to accommodate a proposed increased flow of 1,000 cts. This project structed the dredging of the REIS 2 release of the beyou to accommodate a proposed increased flow of 1,000 cts. This project structed the dredging of the REIS 2 release of the beyou to accommodate a proposed increased flow of 1,000 cts. This project structed the dredging of the REIS 2 release of the flow wall of novel. This project structed the dredging of the REIS 2 release of the flow wall and flow of 3 low of 1,000 cts. This project wall and flood application in the release of the beyour to accommodate a proposed increased flow of 1,000 cts. This project walls 2 fold the dred of concrete example, steel sheet plate flow wall and flow of a low of 2 on AdvOc. The provide flood application of the week steaded flow and the decide concrete example and the dredging decide plate steade of a steader steade of a concreted flow of the of advoct flood application of the Musesset flow of the of policy of provide flood protection to t	The service three restruction of a SQD cold transmism exist behin to encloyed the balk belowent and a sub-advance and Bark segreths and that shallshoot a binder pilot givere across an abardoned access cand had connects the how wards bodies. The additional over the across wave enciptes and the advance for the state funded project. Maintenance of this project was necess additional over the across wave enciptes and the advance for the state funded project. Maintenance of this project was necess the 1998-1998 fixed wave enciptes and the 4500 000. This project thrended the dreadyn of the draft of 2000 000 the project thrended the dreadyn of the draft 6.7 males of the bayou to accommodate a proposed intreaded flow of 1,000 cfs. This project thrended the dreadyn of the draft 6.7 males of the bayou to accommodate a proposed intreaded flow of 1,000 cfs. This project thrended the dreadyn of the draft 6.7 males of the bayou to accommodate a proposed intreaded flow of 1,000 cfs. This project thrended the dreadyng of the draft 6.7 males of the bayou to accommodate a proposed intreaded flow of 1,000 cfs. This project thrended fload wave flow of the draft 6.7 males of the bayou to accommodate a proposed intreaded flow of 1,000 cfs. This project will provide flood brotection frequences by raising 15,940 linear feet of oxiding senthen levee. The project we also or the project wave flood of protection frequences by raising 15,940 linear feet of circling senthen levee. The project we also or the project wave flood of protection frequences and pump different linears, approximately 0,010 linear feet of concrete capability flow. This project is a section of section and pump different bay concreted to provide flood protoction to the concrutes of 3.5 Chaine Paints of the Minesedaping of concruted of provide flood protoction to the concrutes of 3.5 Chaine Paints in the Vest Bark for the more effectively managed through protoction to the concrutes of 3.5 Chaine Paints in the Vest Bark for the more effectively managed through operation o	au orck term to terriforce the bank toomeds the how water boars and the abandoneed and acress can all that connects the how water boars. The laws while strated of sectiment and aquate or of this state-funded project. Manitomance of this project waraon to ore coastal marches and provide dinking water to over 300,000 you to accommodate a proposed increased flow of 1,000 cts. Inse Parish dredging design project. The project war or the abandon state of the state strates and provide and the project war or the section of the state strates and provide dinking water to over 300,000 you to accommodate a proposed increased flow of 1,000 cts. Inse Parish dredging design project. The project war estimate the state strates and provide and the state stat	This project involved the construction of a 5000-001 transition in circle mit to inclove the bank howerds the how water bolds. The feou estimation construction of a finder of a finder of the advance and access can all that connects the how water bolds. The feou estimation CVP FPA funder or faulties and encode finder of the catelor funded project. Maintenance of this project was measure construction and an explored to maximum explore and encode find catelor funded project. Maintenance of this project was measure construction that 1995-1995 fiscal variant events parties and encode for the catelor funded project. Maintenance of this project was measure construction that 1995-1995 fiscal variant events parties that the bank of the bank of a finder of the project was measure construction that 1995-1995 fiscal variant events and a state is zhales of the bank of the catelor during develop and increased flow of 1,000 chs. This project timefee the amedging of the Ret is 7 makes of the bank of the catelor during develop and increased flow of 1,000 chs. This project will provide the amedging of the Ret is 7 makes of the bank of the catelor during the event of the project will also include approximately 7800 line feet of concreted variating 15,840 linear feet of conclarus of the project will also be obtained and flood protection regroverments by relating 15,840 linear feet of conclarus of the project will also be obtained and flood protection regroverments consisting of new adment levels, approximately 0,110 linear feet of concreted concreted and flood protection regroverments consisting of new adment levels, approximately 0,110 linear feet of concreted concreted and flowed and and be of the regrover and flowed flowed and and and and and and concreted flowed and and be of the regrover and the administry flower. This project provided funding for the design of breakwardersights soork for formal set for administry flowers and administry of the project is to redure the line of the molect of crand (set and psi	This propert and the relativistion of a fixedown or its about one robust to indice the basis howerds the search and a sector and Basou calegoreties and the relativistic of single fere as time has while all allowing existing the bow wate bolds. The fea calegoreties and the relativistic of single fere as time has while all allowing existing the bow wate bolds. The fea calegoreties and the relativistic or sention in the lawout the tabout the table of the project was necessary in the 1998-1998 fac strainsformed for the design of this data funded project. Maintenance of this project was necessary in the 1998-1998 fac strainsformed for the design of this data funded project. Maintenance of this project was necessary in the project trunded the anedging of the table. For leave the halow the about the accommodate a proposed intrated frow of 1,000 cts. This project trunded the anedging of the table. For leave the bayou to accompose and provide individe gasthem level. This project will provide food protection memory and states the about the accommands of the project we allow the project will provide food protection memory start the bayout the accommodate a proposed intrated of relativist the project will provide food protection memory and the bayout the accommands the 0,000. This project will provide food protection memory and the distribution bays to 0,000. This project will provide food protection memory and the about food factor distribution to the setwater of relativist the project will provide food protection for the design of the memory in the state of relativist the project provide food protection for the design of bare access and the provide food protection to the weak and state access and the provide food protection to the weak and state access and the project provide food protection for the design of break watersights shory the access and the project provide food protection for the design of the access of the access and the project provide for the design of the akentime the adeputer of the acc	This project in roward the comparisation of a fixed excess in an eack term in be anticrus the beat belowent, leak advised and the instance of the project wan acuted or project wan acuted comest. The interface were eacrypes and encodes and the instance were eacrypes and encodes. The fixed activation of a fixed encode encodes. The fixed activation of a fixed encode encodes. The fixed activation of a fixed encode encodes. The fixed encode encodes and encode encodes and encode encodes and encode encodes and encodes encodes. The fixed encode encodes and encode encode encodes and encode	This project involved the cruitaburdinum of a Signo durin makine in rich turnin to include the bink how water bodies. The feacu elegipret in movies were energies and encode throme has while state stunded project. Maintonance of this project was necessary for a elegipret in mouse were energies and encode for the despin of this state funded project. Maintonance of this project was necessary for a elegipret in media. We want a void of \$500.000. This project structed the rendom in D Bayou Labouche will redome coastal machine and apovide direkt to ever 300,000 residents. This project structed the rendom in D Bayou Labouche will redome coastal machine and provide direkt of reaction of 1,000 cts. This project structed the rendom in D Bayou Labouche will redome coastal machine and hourd a grant of the one 300,000 residents. This project structed the rendom in D Bayou Labouche will redome coastal machine and hourd gales to 60 Mayou cas. This project structed State funding to supplement a P learunning 15 state interaction diversed forward runcted contracted by FBOD lineir feel of concreted casped, steel street pile floorwall and floor gales to 80 Nayou. This project will provide flood aprotection interprovements by raising 15 state make a sphroundaley 9.0110 these redomed and contracted by FBOD lineir feel of concreted casped, steel street pile floorwall and floor gales to 80 Nayou. This project will provide flood aprotection in the Messaya Steel street pile floorwall and floor gales to 80 Nayou. This project will approve the one approxements consisting of make a statement leaves, approximately 9.0110 these for franting contracted biologicaptic floar statements for a statement and floory of a statement and mack and contracted project will be writed and floar distructed to the statement and make a statement and contracted biologicapter will be more effectively manage and floar gales to 80 Nayou. This project will be provided funding for the design of the more effectively manage and and the provided funding for the design	This project involved the crutifuction of a fight on threater the min to include the burk how water bolds. The fecture elergines to neural wave energies and ensure from the late value state advance and an aquate organizers and any entities are elergines and ensure from the late value state advance and any active advances and aquate organizers are appreted to neural wave elergines and ensure the threat the late of the control of the project was mereosary in the 1995-1995 face if ward a 1950,000. The state is a main base value at a proposed increased flow of 1,000 created ensities the 1995-1995 face if ward is the state is zhales of the bayou to accompanies and provide advances of the project was mereosary in the 1995-1995 face if ward is the state is zhales of the bayou to accompanies and provide advances of the project was mereosary in the 1995-1995 face if ward is the state is zhales of the bayou to accompanies and provide advances of the project was mereosary in the project under the anedgrang of the fet is zhales of the bayou to accompanies and flow of states of an increased face of the provided project and approxements by raising 15,840 linear feet of or origing senthen lovee. The project wall about the project under a provide flood project bin the provide flood project will also the project ward the state of the mereosary is a state of the mereosary in the state of reaction and the state of accompanies of the transformation of the mereosary and the provide flood project will also the project provided funding for the design of the mereosary face adding set for the design of the adding set of the state walls and the project is a statemastic and flood approjection of the statemastic and accompanies of a classical set of the analysic grade place of the project is a classical provided funding for the design of the merios grade and and the project is a statemastic and and the project provided funding for the design of the advance admand and and and and and and the project is a statemastic and
ONGOING PROTECTION AND RESTORATION SUMMARIES Miles of Construction Total Budget Project Description Levers	This Section 204 project provided for the boneficial placement Metamore ABMANT to create webbands on the base side of Sec.	This Section 204 project provides for the disposal of dredged i Calcasieu Ship Channel. A total of 4 million cubic yards of ma	refuge at an elevation conducive to marsh creation. This Section 204/1135 project was a cooperative effort with th	rouns remained by the care of the concerned of the concer	This Section 20411135 project investigated the feasibility of be the Ocean Dredged Material Disposal Site. The project area is raingator channell Terrebonne Bay. The construction sche transist formmissiones.	Transmission resources to provide the extent possible, the natural hydr conditions are expected to occur following project implementa maintaining a brackish marsh system.	This feasibility study is intended to evaluate options and atems Alexandria and impation and flood reduction benefits to agricul	This project assesses and inventories the natural resources in the Atchafalaya Swamp	This project involved the construction of eight parallel sphons. Naomi, Louistana. The maximum discharge of the sphons is i	This project involved the construction of eight parafiel sphons the west side of the river near Pointe a la Hache, Louisiana. T	The purpose of this project is to restore Queen Bess Island as added to the island to increase its size in 1991, and a rock divi armor the shoreline. The area has become veetated and the	Approximately 300,000 pounds of crushed oyster shell were pl marsh shorefine separaling Lake Salvador and Bale de Chach	The purpose of this project is to build a rock dike that will prote the shoreline protection project was built on the land to avoid as an extension of the BA-15 Phase II CWPPRA project.		This project norwed the construction of a 300-foot imrestom Segnetie and the installation of a imrober piling fence across an is designed to resture wave energies and encove fence a from t Accelorian Love PPA functivers approximation for the design of the 1989-1998 fixes 4 vest at a cost of \$300,000.	This protect involved the construction for a 6.800-foot inreation segmetia and the installation of a limber piling fence across an established to enter avisore entropies and recise from its Additional SVPFPA. Numer-were approximation from concept on the Mississippi Rever diversion into Bayou Latiourise will rest the Mississippi Rever diversion into Bayou Latiourise will rest the Mississippi Rever diversion into Bayou Latiourise will rest the project tundent the direction for the bay	This properties and the installation of stimology and a 360 your interval nor enforce the bank. By openetic and the installation of stimology fance as ross an abandoned access can all hat you is designed CVP FPA. Innets were semplase and recease interes an abandoned access can all hat you distributed CVP FPA. Innets were semplase and recease interes an abandoned access can all hat you the 1998-1999 fase at rear at a your 4300,000. The abandoned arolicit mantum the 1998-1999 fase at rear at a your 4300,000. The hatyou in access the rear and and this project innotes the direction into Bayou Lafourche will reactore coastal markine an proposati This project innotes the direction will be supplement a Plaquimine Parish direction durate and projection this project provided State funding to supplement a Plaquimine Parish direction durate a proposati this project provided State funding to supplement a Plaquimine Parish direction durate the source at the direction base and the the source of the table of table table and table	This profile Throwed the construction of a findle pring fere as cross and set expension and the installation of a findle pring fere as cross and set exponent on returns, wave ensigns and rows for rest from 1 and additional CVV PFAN fundle verse ensigns and rows for rest from 1 the 1996-1999 fiscal Year at a cost of \$200,000. The Mississippi River diversion into Eago o this project introduct the diversion into Eago o the strain and the diversion into Eago of the fiscal This project provided State funding to supplement a Pleaqumin This project introduct State funding to supplement a Pleaqumin the project will provided 5000 protection interverent strain the project will provide 5000 protection interverent strain introduct approximately 7600 inter field of concrete stapped, see	This profile throwed the construction to a SiO-fould imreadom selegipment in relatation of a imber pling serve across an endipment in relative were appropriated for the deagn of additional CVP PRA funds were appropriated for the deagn of additional CVP PRA funds were appropriated for the deagn of the 1986-1989 fister a version into Bayou Lafourche will resto. The Mississippi River diversion into Bayou Lafourche will resto. The project throaded the dinsigning of the fiste 1.2 missi of the tas this project provided State funding to supplement a Pleaqumin This project survided State funding to supplement a Pleaqumin the project will provide food protection improvements by tasi include approximately 7600 liner field of concrete experts, see projected Plotodynal and food apprice 18.0 MAV.D.	This profile throwled the construction to a find-re pring fere as cores and strength and the installation of a find-re pring fere as cores and strengthment CWP PFA. Inder versions have for each root and distronal CWP PFA. Inder version have a proportionator for the design to the 1998-1999 fisc at vest at a cost or \$500,000. The Avail this project tunded the diredging of the fist 5, 7 miles of the bay This project provided State funding to supplement a Pleaurine will respond the diredging of the fist 5, 7 miles of the bay this project will provided State funding to supplement a Pleaurine the project will provided State funding to supplement a Pleaurine the project will provide food protection interfered vestored, see include approximately 7600 liner feet of concrete vapped, see include approximately 7600 liner feet of concrete vapped, see the project valiprovide food grotter 500 Miles of the bay concrete based and the advection and the set of concrete vapped, see include approximately 7600 liner feet of concrete vapped, see include approximately 7800 liner feet of concrete vapped, see the project and for adjuster 18 0 AMVD.	This project move due to construction to a find-region (meadon selection and the installation of a find-region (see a cross an as designed cive Factor, were regions and the project mont as designed cive Factor, were regions and the decapt of the 1998-1999 fixer al vest at a crost or \$200,000. The Mississippi Fave diversion into Eago ou Lafourche will resto this project innoted the driedging of the figt 5, 2 missi of the bay This project working of the figt 5, 2 missi of the bay this project working of the driedging of the figt 5, 2 missi of the bay this project working of bood protection interprovements by traci- tic project will provide fib od protection interprovements by traci- tic project will provide fib od protection interprovements by traci- tic project will provide fib od protection arterinor and the Mis- terproject will arrow satirity bevies at Bayou Lafourche and con- tices to a sprouting bay fib od protection interprovements of the Mis- terproject booked and and a dates to B and colf the Mis- terproject booked and and a dates and a date of the Mis- tructure and a course satirity bevies at Bayou Lafourche to be a the project will attow satirity bevies at Bayou Lafourche to be a	This properties and the installation of animole rpilog feets as ross an abandrower discrets and that should be autic. Big appeares and the installation of animole rpilog feets as ross an abandrower discrets and that should be addited and the installation of animole rpilog feets as ross an abandrower and the installation of animole rpilog feet as ross an abandrower and the installation of animole rpilog feet as ross an abandrower discrets and the installation of animole plantange of the feet and the installation of animole rpilog feet as ross an abandrower discrets and plant on an abandrower and the installation of animole plantange of the feet and the installation of animole distribution of the installation of animole distribution and the installation of the installation and the installation of animole distribution and the installation of animole distribution and the installation of animole distribution and the installation of the installation of the installation and the installation of animole distribution and the installation of the installation of the installation and the installation of the installation and the installation of the installation and the installatin animate installatin	This project incolved the construction of a finder pring free across an abardoned access can all hat connects the was as designed in the instal allow of a mole pring free across an abardoned access can all hat connects the was as designed in the instal allow of a mole pring free across an abardoned access can all hat connects the was as designed in the instal allow of a mole pring free across and and one access and and noted an interasset in the 1998-1998 fisca all vest at a cost or \$300,000. The abardoned access can all hat connects the was the installed on the abardoned of the fist 5. 7 miles of the bayou to accommodate a proposed interasset in the installed on a develop in the fist 5. 7 miles of the bayou to accommodate a proposed interasset in the project provided Stade funding to supplement a Plaqumine's Parish dredging design project. The project provided Stade funding to supplement a Plaqumine's Parish dredging design project. This project will provide fixed a profession in the bayou to accommodate a proposed interasset in the project will provide fixed a prodiction into accommodate and found takes to 8.0 Miles the project will provide fixed approximately and the provide fixed and the contract of the miles approximately 7600 liner field of concrete capeds, steel sheet plik floodwall and flood gades to 8.0 Miles to the project will provide flood gades to 8 down. This project will above a steel of concrete capeds, steel sheet plik floodwall and flood proved flood commandles of SL. Charke Parish on the West B ank of the Milessisspip Rhem. This project will also be a based and and the above to be more effectively managed through operation of environmental dana strange as the single of the adoma being accompany of the environmental dana strange are being and the adoma being accompany of the environmental dana strange are being accember to be more effectively the estimative and and and the provided funding for the design of the adoma being accomb and and and and and accember to addetinaty	This protect movie due to construction on a more pling serve across an an eleganetia and the instalation of a minder pling serve across an an eleganetia of the instalation of a minder pling serve across an an eleganetic cyrp FAA, funds were perioparator down the decaparo the 1998-1999 fisca diversion into Bayou Labourche will restor. The Ministiscippi Rave diversion into Bayou Labourche will restor the application of the diversion into Bayou Labourche will restor the players and the diversion into Bayou Labourche will restor the players of the diversion into Bayou Labourche value include approximately 7000 liner field of concrete caped, site the project will provide fibroid protect bion interprovements by ratal include approximately 7000 liner field of concrete caped, site the project will provide fibroid protect bion interprovements of the bay concrete caped and the diversion of the bayou Labourche to play a second and the bay a second bayou communities of SL Charles Parish on the West Bank of the Min the project provided funding for the design of breakwaters/state the purpose of the provided funding for the design of the second bayour evolution. This project provided funding for the design of the second second to environnet and samage and baser. The project is to induct the thermic, detains of the outdoor al purveluing capacity bayou Labourche to be na theoretic and taken and the outdoor al purveluing capacity is required, and anabrae theoretic and taken and the outdoor al purveluing of the parketia and the outdoor of the outdoor to cald bale in outdet to purveluing capacity bar and the outdoor of purveluing the outdet of secting bite and the outdoor of the and the outdet to existing behavioraters to an elevation of 8 feet and the outdet of existing breakwaters to an elevation of 8 feet and the outdet of existing breakwaters to an elevation of 8 feet and the outdet of existing breakwaters to an elevation of 8 feet and the outdet of existing breakwaters to an elevation of 8 f	This propriet and the installation of a involver pilo factor as toros an as as deapores and the installation of a involver pilo factor as toros may as deapores and the installation of a involver pilo factor across more the 1989-1999 face at year at a cost of \$300,000. The hadyon the 1989-1999 face at year at a cost of \$300,000. The hadyon the project provided the dredging of the fact 5. makes of the hadyon the project provided State funding to supplement a Plaquimires the supplect provided State funding to supplement a Plaquimires the supplect provided State funding to supplement a Plaquimires the supplect will provide the dredging of the fact of concrete capacity states the project will provide the dredging of the fact of concrete trapped, states the project will provide the dredging of the fact of concrete trapped, states the project will a provide the dredging of the fact of concrete trapped, states the project will allow stating be well and op the provided states of SL Charles P arish, on the West B ank of the Miss the project provided drange to the purpose of the provided to moting for the design of the educing to the purpose of the provided to moting for the design of the odmol and the purpose of the provided to moting to the design of the odmol and the outform at a conformation grander to and residential inframi. This project provided concing are and resolution the outford. The contromol dranage are then grander to an educe and the and the section and the angel of an of the provided to the outford. The the purpose of the provided concing to an educe and the advector to some the source and the angel of the provided to the transfer of an educe to provided concing and the advector the purpose of the provided concing to an educe and resolution of 8 feet and concident to and the advector and then are to and the advector and the provided to the concidence provided concidence to an educe and the advector to and the advector and provector to the concidence provided concidence	This protect movie due to construction on a more pling level as 005, 500 threadon as deagneed to maiatakon of a minder pling level as costs mon take the additional CWP FPA funds were paragraphication for the deagn of the 1998-1999 fisc at Year at a cost or \$500,000. The bia protect provided 1 m diredging of the fist 5, 7 miss of the bia this project tunded the diredging of the fist 5, 7 miss of the bia project provided Stafe funding to supplement a Plaqumin this project will provide flood protection interforments by ratio interformation and the diredging of the fist 5, 7 miss of the bia project will be a system of the diredging of the fist 6, 1000 the fist of the diredging of the fist 6, 7 miss of the bia interformation and the relevance of the diredging of the fist include approximately 7 500 line field of concrete capped, see the project will provide flood protection interformed a dired of the commandes of 500. The here of dirange clucturons and pur- construction and anow salendy be diredging of the fist commandes of 5. Chaine's Farish U were gain of the fist the project provided funding for the design of threakwates/ the project provided funding for the design of the advance of and base of 2. Chaine's and has a dired averia, defaming the project in order to provide clucturons of the discipant the project in order to provide clucturons and the advance of and base of 2. Looke states a discrete a dired averia, defaming the provident and constation as a discrete and a sale. The project states are inclusion are additional provided to and the solution of the solution of and base of the constation behaviour to an ender and a discrete the project involves and the solution of the advance and are addition and provided to a discrete and evaluation and the project will accrete a discrete a discrete and a sale. The project will accrete the project will accrete a discrete a discrete and a sale. The project will accrete and the project will accrete a discrete a discrete andition of a state anditin a discrete a discrete ane	This project movied by construction of a more pling face across an abandone a scr as desprete and the instalation of a mixer pling face across an abandone a scr as desprete in roture, were rearges and a site of construction the accorrect the 1998-1999 face at versi a cost of \$300,000. The blayou to factor construc- tion project provided Staf funding to supplement a Plaquinthes Patish dreggin the project provided Staf funding to supplement a Plaquinthes Patish dreggin the project will provided Staf funding to supplement a Plaquinthes Patish dreggin the project will provided Staf funding to supplement a Plaquinthes Patish dreggin the project will provided Staf funding to supplement a Plaquinthes Patish dreggin the project will provide Staf and the face of contracted e supplex. Staff the project will provide Staff a funding to the task of the Missiship filter contracted by 7000 have face of contraste e supplex, start stream to supplex the task of the task of the Missiship filter across the project will provide a standard staff as a standard across and aband contrast the staff of the design of the Allow of the Missiship filter the project to order and assess to Bayou Ladourche to he more affectave the project to order and and a standard across to a staff or distruc- tion to the staff of the design of the staff a staff is current in the assettion of the provided funding for the design of the staff a staff is current in the assettion of a staff a staff is equiled. The project of the additional provided and the project funded staff is equiled with a staff a staff is current in the assettion of a staff and staff a staff is equiled. The coope is of un- tertaintee and staff and staff a staff is equiled. The coope is of un- tertaintee and standard the staff and staff a staff is current in the assettion of a staff or best of the staff and to staff and the staff or development of the addition of the control from the development of the staff or development of the additin the staff or development and stagged and to staff and
I AND RESTOR Total Budget	\$100,000	\$1,560,804		\$1,370,000	\$1,000,000	\$1,132,435	\$970,000	\$1,450,000	\$9,602,381	\$9,845,693	\$1,475,176	\$175,000	\$4,840,344		\$1,373,151			1000	1000 1002 1000	100 100 100 100 100	1002 1022 103 103	1002 1002 1000 000					
Construction Completion	2002	1999	1991, 2003	1996	2002	1999	NIA	NIA	1992	1992	1993	1990	2005		1994, 1998	1994, 1998 2011	1934, 1998 2011 NA	1994, 1998 2011 NVA	1994, 1988 2011 NA Pending	1994, 1998 2011 NUA Pending Pending	1994, 1998 2011 NUA NUA Pending Pending	1994, 1998 2011 NA NA Pending Pending Pending	1994, 1998 2011 NUA NUA Pending Pending NUA NUA	1994, 1988 2011 NA NA Pending Pending NA NA NA	1994, 1998 2011 NAA NAA Pending Pending NAA NA NAA S015	1994, 1998 2011 NAA Pending Pending NA NA Pending Panding(On Hold Pending(On Hold NA	1994, 1998 2011 Pending Pending Pending N/A N/A N/A N/A
ONGOING Miles of Levee	NIA	NIA	NIA	NIA	NIA	NA	N/A	NIA	WN	NIA	NA	NA	NA	-	NA	NA	NUA NUA NUA	NUA NUA NUA 2.9	NKA NKA NKA S.3	NUA NUA NUA 2.9 2.3 3.3	NAA NAA NAA Si 3 Si 3 Si 3 NAA	NUA NUA NUA NUA S.3 S.3 S.3 NUA NUA	abi				
Acres Benefited	80	480	37	115	20	315	NIA	N/A	8200	9200	145	130	2035		88	88 Not Available	88 Not Available N/A	98 Not Avatable N/A N/A	88 Not Avatezbie NVA	88 Not Avatable NuA NuA NuA NuA	88 Non Avsieane NoA NoA NoA NoA NoA NoA						
Parish	JEFFERSON	CAMERON	TERREBONNE	JEFFERSON	TERREBONNE	CAMERON	RAPIDES	ST MARY, IBERIA, ST MARTIN	PLAQUEMINES, JEFFERSON	PLAQUEMINES	JEFFERSON	ST CHARLES	ST CHARLES		JEFFERSON	JEFFERSON	JEFFERSON LAFOURCHE PLAQUEMINES	JEFFERSON LAFOURCHE PLAOUEMINES	JEFFERSON LAFOURCHE PLAOUEMINES JEFFERSON	JEFFERSON LAFOURCHE PLAQUEMINES JEFFERSON JEFFERSON ST CHARLES	JEFFERSON LAFOURCHE PLAQUEMINES JEFFERSON JEFFERSON JEFFERSON ST CHARLES ST CHARLES	JEFFERSON LAFOURCHE PLAQUEMINES PLAQUEMINES JEFFERSON ST CHARLES ST CHARLES LAF DERSON	JEFFERSON LAFOURCHE PLAQUEMINES JEFFERSON ST CHARLES ST CHARLES LAFERSON JEFFERSON JEFFERSON JEFFERSON JEFFERSON JOHN THE JOHN THE JOHN THE LAFOURCHE ST LAFUES T	JEFFERSON LAFOURCHE PLAQUEMINES JEFFERSON JEFFERSON LFFERSON LFFERSON LFFERSON LFFERSON LFFERSON LFFERSON JEFFERSON JEFFERSON	JEFFERSON LAFOURCHE PLAOUEMINES PLAOUEMINES JEFFERSON ST CHARLES LAFUERSON JEFFERSON JEFFERSON LAFUERSON JEFFERSON JEFFERSON JEFFERSON JEFFERSON LAMLES JEFFERSON	JEFFERSON LAF OURCHE PLAOUEMINES JEFFERSON JEFFERSON JEFFERSON JEFFERSON JEFFERSON JEFFERSON JEFFERSON JEFFERSON LAFOURCHE DAMISS JEFFERSON LAFOURCHE LAFOURCHE LAFOURCHE LAFOURCHE	JEFFERSON LAFOURCHE PLAQUEMINES PLAQUEMINES JEFFERSON JEFFERSON JEFFERSON JEFFERSON JEFFERSON JEFFERSON JEFFERSON JEFFERSON LAFOURCHE JEFFERSON JEFFERSON
Federal Sponsor	_	USACE	USACE	USACE	USACE	USACE	NIA	NVA	VN	N/A	N/A	N/A	NIA		NIA	NIA	N/A N/A N/A	NIA NIA NIA	NIA NIA NIA NIA	NA NVA NVA NVA NVA NVA	NIA NIA NIA NIA NIA NIA NIA						
ect Project		MO	-	MQ	M	MC, DM	2 OT	3 OT	G	8	B SP. DM	s P	X1 SP	_	SP												
State Project Number	VIN	NIA	DSR-81558	VIN	e N/A	NIA	AT-0012	AT-0013	BA-0003	n BA-0004	BA-0005-B	BA-0005-C	BA-0015-X1		BA-0016	8A-0016 8A-0025	di la constante de la constant										
Name	Barataria W aterway Grand Terre Ichard Ph 3	Calcasieu River and Pass	(clattine revers) Phase I, II, III Whe Island Restoration	Barataria Bay W aterway, Grand Terre Island (Phase D	Hourna Navigation Canal, Wine Island Barrier Island Restoration	Brown Lake	Alexandria to the Gulf	Atchafalaya Basin Natural Resources Inventory and Assessment	Naomi Siphon Diversion	West Pointe a la Hache Siphon Diversion	Queen Bess	Baie de Chactas	Lake Salvador Shoreline Protection Extension		Bayou Segnette	Bayou Segnette Bayou Lafourche Freshwater Introduction	Bayou Sagnette Bayou Lafourthe Freshwater Introduction Plaquomines Parch - Southead Louisians Strakept	Bayou Segnette Bayou Lafourche Freshwater Introduction Plaquemenes Parten Southeest counsand Stratege Resolution	Bayou Sagnette Bayou Lafourche Freshwater Introduction Introduction Paguomeo Parch - Paguomeo Parch - Restoration Jean Lafte Trisal Protection Kosethorne T tisal Protection	Bayou Segnette Bayou Latourche Frechwater Introduction Plaquomines Parish Southeest Loudia Protection Jean Latito Triasi Protection Rosethorne Lidal Protection Rosethorne Lidal Protection	Bayou Segnette Bayou Lafourche Freshwater Introduction Introduction Southerest counsiant Stratege Resettromere Parten Jean Laritto Triasi Protection Resettrome Triasi Protection Resettrome Triasi Protection St. Charlos Word Bank Hurritrane Protection Levee Bayou Lafourche Sait Warde Bayou Charlos Kontro	Bayou Sagnette Bayou Lafourche Freshwater Introduction Introduction Pagnomene Parth - Pagnomene Parth - Restoration Alean Lartte Trial Protection Resethorme T tial Protection Resethorme T tial Protection Levee Huntries Towert Bank Resekontari Jahr Direction Grand Barcture Orand Barcture Orand Barcture	Bayou Sagnette Bayou Lafourche Freshwater Introduction Introduction Polytowines Parch - Polytowines Parch - Polytowine Satury Restoration Rossthorme Tistal Protection Rossthorme Tistal Protection Rossthorme Tistal Protection Rossthorme Tistal Protection Rossthorme Sat Water Bayou Laf Outrick Sat Water Bayou Laf Outrick Sat Water Bayou Laf Outrick Sat Water Bayou Laf Outrick Sat Water Danaatsonvulse In the Out of Mick o Hurric and Protection	Bayou Sagnette Bayou Lafourche Freshwater Introduction Introduction Pediomemer Parth - Poulosima Strategic Restination Rosethome Tidal Protection Rosethome Tidal Protection Rosethome Tidal Protection Rosethome Tidal Protection Bradinatisoneries to the Out Orand Ide E at End Donabtsonerie to the Out orand Ide Fit Idand Bradewater	Bayou Sagnette Bayou Lafourche Freshwater Introduction Introduction Paquomene Parch - Joan Lafter Tidal Protection Acosthome Tidal Protection Rosethome Tidal Protection Rosethome Tidal Protection St Charles Word Bank Hurris and Protection Levee Hurris and rece Sat Wide Grand Ide Fit I chard Breakwater Grand Ide Fit I chard Breakwater Grand Ide Fit I chard Breakwater	Bayou I Sagnette Bayou Lafourche Freshwater Introduction Paquoucues Parkh - Paquoucues Parkh - Paquoucues and Strabugic Resendmen Tidal Protection Rosenhome Tidal Protection Rosenhome Tidal Protection Rosenhome Tidal Protection Rosenhome Tidal Protection Barkwater Jahy Design Donatsonwie to the Cut of Mecko Hum'and Protection Breakwaters Lift Kriserner Dayou Brack Level Lift	Bayou Sagnetre Bayou Lafourche Freshwater Introduction Paquene Parten Paquene Parten Resethome Tidal Protection Resethome Tidal Protection Resethome Tidal Protection Resethome Tidal Protection Bayou Lafourche Sat Wafer Charlos Vect Bank Bit Anner Froiscion Levee Bayou Lafourche Sat Wafer Grand Isle Fit I Jaund Breakwater Lang De Ron Breakwaters Breakwater Lang De Ron Lang Breakwater Lang De Ron Lang De Ron Lang De Ron Lang Lang De Ron Lang De Ron
CPRA Program	SECTION 204/1135	SECTION 204/1135		SECTION 204/1135	SECTION 204/1135	SECTION 204/1135	STATE	STATE	STATE	STATE	STATE	STATE	STATE		STATE												

4 4 4 * 38 4 -7 -1 This project involved the construction of a purpring station for ked along the south-central edge of the SL Bernard Parish Ridge. This will discharge collected the construction of a purpring station for ked along the south-central edge of the SL Bernard Parish Ridge. This and discharge collected that collement and was constructed in that of 1997. The printer that along the scale Bornard Barlin Mage Station of Lake Lay and help prevent salwater fitusion. The printer transmost project the scale Bornard Barlin Mage Station and provide the scale and project the scale fit and was constructed in that of 1997. The printer transmost project the scale fit and was constrained and was a scale of an additional erosion and promes a scanned reposition the project mode and project the toto how the scale and scale and read or additional erosion and promes a scanned reposition above the broadwater distructures. The groups spore fit of an additional erosion and promes was provided and was approximated and fit of the orditry of the orditry additional distructure and the scale of the constructure and the distribution fit and was constructed in 1993. The modewaters was proved and approximated and the fit on the existing proderite. The additional distructured in 1994 between them or constructed in 1992 and thin the besen of the existing breakwaters were constructed in 1994 between constructions to prove the Bark. Louisiana. Eighteen of the existing breakwaters were restored and/or related at 2003 utilizing mainter the modewaters were constructed in 1993 and the toto bark and was a static scale of the scale of the scale of an ordit or distructured in 1994 between were constructed in 1994 between the scale of the existing breakwaters were related and/or related at 2003 utilizing mainter constructures to mass and Holp Bark. Louisiana. Eighteen of the existing breakwaters were related and/or related at 2003 utilizing mainter constructures to mass and Holp Bark. Louisiana. Eighteen of the existing breakwaters were related an The project beneficially used diredged esidiment from manitemance diredging of the Cak asies Rive Ship Charmel from male 14 thru male 17 for observe by esidiment pipeline to the Elak LiveMa accarde Beneficial Use Base. The project choose of the The purpose of this project was to prevent the Could Intrac casta Waseway from break ming the Band Lake. The project choose of the project for LiveMan Data Participants Charaka accarde Beneficial Use Base and Lake. The project choose of the project for LiveMan Data Participants Charaka accarde Beneficial Use Base and Lake The project choose according to the project for LiveMan Data Participants Charaka accarding the OMY adjacent to Band Lake. The second phase of this project for LiveMan Data Participants Charaka accarding the RiveMand Beneficial Use Brankawa Franka according to the open was a thrus projection, reduce Rauge The project's policing word generated ware energy, increase overal primary projection mergent mark registation, reduce Rauge The project's policing word generated ware energy, increase overal primary projection mergent mark registation, reducing subjective was to increase and energy in market-water interface, in projection mergent mark registation, reducing subjective was to increase and energy in market-water interface, in projection mergent mark registation, reducing the project's policing word generated ware energy, increase overal primary projection mergent mark registation, reducing subjective was to increase and energy in market-water interface, in projection mergent market intervention of the project's policing word generated ware energy in a transfer. mile 14 thru il and Black Lake. sieu River Ship Channe ade canal: structu e of critical perimeter verely damaged by H for repair and main . These structures/ The intent of this project is to provide repairs to the Cameron-Creole Lovee. ONGOING PROTECTION AND RESTORATION SUMMARIES Miles of Construction Total Budget Project Description Levee Completion 10123365 Project features constant of a remotely National The proje \$12,600,000 \$45,800,000 \$21,034,329 \$2,005,857 \$1,802,271 \$8,437,000 \$173,433 000 \$190,047 \$1,000,0 1993. 1991, 1992, 1 2002 1997 2005 1994 2011 1989 1990 1999 2014 NIA MA NIA VIN VIN VIN NIA VN NIA Acres Benefited 6575 2602 100 NIA 523 440 480 110 40 88 8 VERMILION CAMERON CAMERON CAMERON CAMERON CAMERON RON ST BEI Federal Sponsor NA BOEMRE NIA NIA NA NA VN **NN** VN State Project Project Number Type 6 WW Ŧ SNT å ŝ ₽ DW 01 e S CS-0004-A 004-A-1 CS-0033 CS-0034 BRM-01 BS-0006 CS-0002 CAT-01 CS-0001 CS-BL CS-ST Restoration Black Lake Supplemental Beneficial Use Disposal Are 00.00 Rycade Canal Marsh Management e Au Tigre 000 olh Beach Brown Marst Lake Lery Hy Restoration Blind Lake bine STATE CPRA Prog

Ĩ							-	1		-						
2	2	2	2	1	38	ЗА	38	4	4	38	-	4	4	÷	2	-
This project consists of a rock one built to project the e-ut stronging of twest shared and a fort uningsion. This project was expedited because erosion rates along West Grand Terre rapidly accelerated due to the impacts of tropical storms in 2002.	The purpose of this project was to reduce erosion on the bay side of Grand Isle. Fifteen 300-foot breakwaters were constructed on the back-bay sube of Orand Isle.	Two stes were filled utilizing uredged material adjacent to Baie du Cabanage un the Sakedor Wildlife M anagement Area. This project is part of the coastwide state Desidand Dredging. Program. The goal of this program is to use a small, mobile hydrautic dredge aborg hiand wateways in Louisiana's coasta zone to deposit dredged material, and thereby nounch and/or rebuild threatened coastal manufaction adjacent to the watemays.	Three sites were filled utilizing dredged makerial adjacent to Barou Dupont and The Pen. This project is part of the coadwide state Dedicated Dredging Program. The goal of this program is to use a small, mobile hydraulic dredge abing inland wateways in Louisiana's coastaizone to depost dredged material, and thereby nourish and/or rebuild threatened coastal marates adjacent to the wateways.	The project created approximately 26 acres of sustainable freatwater marsh in the volimby of Pass a Loutra, Louisiana. This project is part of the coestwate state Date and Disegong tropgram. The goal of this project will be use a small, module hydrautic diredge along hiland waterworps h. Louisiana's coastal zone to deposit diredged molefal, and thereby nourich and/or rebuild threatened coastal marking a subserved to waterwork.	This project created approximately 40 acres of marsh just north of Lake DeCade along the western bank of Minors Canat. This project is pair of the coastwore state Deceated Deciping Program. The goal of this program is to use a small, mobile Proratilic friendoge along hiland wedeworps in Loubisains's coastal zone to deposit dredged material, and thereter nounch and/or rebuild threatened coastal marshes as alse who the mademosts.	This project created approximately 38 acres of marsh mear Catifat Lake using dredged makeria from Grand Barou Blue. This project is part of the coastwole state Dade and Dredging Program. The goal of this program is to use a small, mobile hydrautic dredge along Intend wateways in Louistimas's coastat zone to deposit dredged material, and thereby nounch and/or rebuild threatened coastat manator adjacent to the wateways.	This project created approximately 67 acres of marsh on Point Au Fer Island adjacent to the CWPPRA TE-26 project using material receiped from Archardsapa teay. This project is part of the coascas state Denicated Cherdopy Propriam. The group and is to use a scrait, mobile hydrolue foreign adoing hind wateworys in Custaino's coastal zone to deposit dropped material and threeby nousia archit, and/or rebuild indexidency coastal scraits. The space additione to deposit dropped material and threeby nousia archit, and/or rebuild indexidency coastalization to the wateworks.	The project inlegrades econstem restoration and hurnitame protection atematives to address the coastal issues of Southwest Louisiaa. It includes storetine stabitzation, marsh creation, sainty control, hurnit are protection, and chenter restoration measures. Project vas attimities directioners, Turking and	The purpose of this project is to corer the cost of marsh fill for the Sabine Refuge Marsh Creation, Cycle 2 Breaux Act project.	This project is to recognize activities undertaixen by the State of Louisiana's Coadala Protection and Restoration Authority as part of the active process of managing multiple floodplain mapping projects for the coadala area of Louisiana.	This project wit include all work involved in the development of the Diversion. Management program. This will be performed by CPRA personnel and CH2M and will inflative result in the development of full E &D scopes for both the Mix-Barataria and Mix-Breton diversions.	The purpose of this project is to introduce freatwatter from the north to counteract the satewater infusion from the south. The project consists of two water control structures and approximately 5,700 intear teat of earthen embandment needed to channel water from Write Lists of the owning mozing.	The purpose of this project is to create 98 acres of marsh southeast of intersection of Acadiana Canal and Freshwater Bayou.	This project involved the excavation of 13 crevases through the levees of Mississipplifiver distrbutiary channels within the Baize Deta In order to create set' sustaining emergent marsh.	This project was authorized to construct segmented rock breakwaters on the bay side of Grand Isle to protect camps for aled between Cummats tay and the west state or Lonstanta high T. The Lonstanta Physichrenian National Resources (LUNY) combustion no construction funds and we are revolved to inclusion inspection only. The local Levee Distant supplied construction funds.	The purpose of this project is to return into operation the existing sighton, and to enlarge the size of the diversion so that more sediment and freshwater are available to offset marsh subsidence and satiwater intrusion.
\$2,076,816	\$500,000	\$342,276	\$1,080,017	\$450,000	\$2,599,587	\$1,831,534	\$2,469,250	\$8,800,000	\$6,600,000	\$200,000	In Development	\$487,152	\$5,700,000	\$1,010,500	\$160,000	\$380,584
2003	1995	1999	2000	2005	2006	2007	2007	Pending	2010	NVA	VN	1992	2015	1993	1995	1992
NA	NJA	NIA	NIA	MA	NIA	NIA	AW	In Development	NA	N/A	VIN	NIA	NA	NIA	NIA	NIA
Not Available	50	28	66	26	40	38	67	In Development I	227	NIA	VIN	39000	96	6719	50	84
JEFFERSON	JEFFERSON	ST CHARLES	JEFFERSON	PLAQUEMINES	TERREBONNE	LAFOURCHE	TERREBONNE	CALCASIEU. VERMILION, CAMERON	CAMERON	COASTWIDE	JEFFERSON, LAFOURCHE, PLAQUEMINES, St. BERNARD	VERMILION	VERMILION	PLAQUEMINES	JEFFERSON	ST BERNARD
NA	N/A	NIA	NIA	NIA	NIA	NIA	NIA	USACE	NA	N/A	VN	NIA	NIA	NIA	NIA	NA
ŝ	SP	MC, DM	DM, MC	WO	DM	DM, MC	WC	DM. TE. SP. MC	DM	οT	ī	FD	MC	SD	SP	FD
FTL-01	GIBSB	LA-0001-A	LA-0001-B	D-1000-V1	LA-0001-D	LA-0001-E	LA-0001-F	LA-0020	LA-0021-1	LA-0211	LA-0276	ME-0001	ME-0025-SF	MR-0001-B	NGI	PO-0001
on West Grand Terre Island at Fort Livingston	Grand Isle Bay Side Breakwaters	Dedic sted Dredging Program - Lake Salvador	Dedic ated Dredging Program - Bayou Dupont	Pass a Loutre Site - Dedicated Dredging Program	Terrebonne School Board Site - Dedic aled Dredging	Grand Bayou Blue Site - Dedicated Dredging	Dedicated Dredging - Point au For	Southwest Coastal Louisiana Feasibility Study	Sabine Cycle 2	MAS1 - Management	Sediment Diversion Implemenation and Program M anagement	Plecian Island Freshwater Introduction	M arsh Creation Near Freshwater Bayou	Small Sedment Diversions	North Grand Isle Breakwaters	Violet Siphon Diversion
STATE	STATE	STATE	STATE	STATE	STATE	STATE	STATE	STATE	STATE	STATE	STATE	STATE	STATE	STATE	STATE	STATE

		Sponsor	Number Type Sponsor
		_	
ORLEANS 75	N/A ORLEANS 75	SP N/A ORLEANS 75	PO-0002-C SP N/A ORLEANS 75
ST CHARLES 1750 N/A	1750	ST CHARLES 1750	N/A ST CHARLES 1750
ST CHARLES 50 NA	50	ST CHARLES 50	NIA ST CHARLES 50
ST BERNARD 300		ST BERNARD	N/A ST BERNARD
ST JOHN THE BAPTIST 184		ST JOHN THE BAPTIST	NA ST JOHN THE BAPTIST
E ST BERNARD 2343	122.1	ST BERNARD	USACE ST BERNARD
ST BERNARD N/A		ST BERNARD	N/A ST BERNARD
ST BERNARD 300		ST BERNARD	N/A ST BERNARD
ST TAMMANY, N/A TANGIPAHOA		ST TAMMANY, TANGIPAHOA	NUA ST TAMMANY. TANGIPAHOA
E ST BERNARD N/A		ST BERNARD	USACE ST BERNARD
E ST BERNARD N/A		ST BERNARD	USACE ST BERNARD
10.151.25		ST BERNARD	USACE ST BERNARD
JEFFERSON, ORLEANS, PLOQUEMINES, NIA ST BERNARD, ST CHARLES CHARLES		JEFFERSON, ORLEANS, PLAQUEMINES, ST BERNARD, ST CHARLES	JEFFERSON, ORLEANS, PLAQUEMINES, ST BERNARD, ST CHARLES
ASCENSION, 1600 LUVINGSTON 1600	Ľ.,	N/A ASCENSION, L/VINGSTON	A SCENSION, LIVINGSTON
ST TAMMANY NIA		ST TAMMANY	N/A ST TAMMANY
ST BERNARD N/A		ST BERNARD	N/A ST BERNARD
ST TAMMANY 6		ST TAMMANY	N/A ST TAMMANY
TERREBONNE 197		TERREBONNE	NIA TERREBONNE
TERREBONNE 1		TERREBONNE	N/A TERREBONNE
CAMERON 10		CAMERON	N/A CAMERON
TERREBONNE 4200	_	TERREBONNE	N/A TERREBONNE
TERREBONNE 1300		TERREBONNE	N/A TERREBONNE
TERREBONNE 4374	-	TERREBONNE	N/A TERREBONNE
TERREBONNE 4700		TERREBONNE	N/A TERREBONNE
TERREBONNE 3465		TERREBONNE	N/A TERREBONNE
TERREBONNE 150		TERREBONNE	N/A TERREBONNE
E LAFOURCHE, NIA TERREBONNE		LAFOURCHE. TERREBONNE	USACE LAFOURCHE. TERREBONNE
LAFOURCHE N/A		LAFOURCHE	N/A LAFOURCHE
LAFOURCHE N/A		LAFOURCHE	N/A LAFOURCHE
TERREBONNE N/A	\square	TERREBONNE	N/A TERREBONNE
E TERREBONNE NA		TERREBONNE	USACE TERREBONNE
LAFOURCHE		LAFOURCHE	N/A LAFOURCHE
ST MARY, NA TERREBONNE NIA		ST MARY	ST MARY.

38 38 38 88 38 Operation of the projection to the energy scape to fand two: provided in obtaining of the provident of obloctives of the project were to maintain the integrity of approximately 2,000 acres of interior march between Jackson Bayou stratish-timeris an can all to staking in 16 devel of the set Cole Banchine Bay shorefilm . This was achieved by constructing stratish berm adje and the binerability of projective actionaline encount. This project involved the installation of a combination of shoreline protect along the sext scient the installation of a combination of shore pie and earthern along the sext scient the involved Canadi form the sector gale and table to louve interm huminane protocolon during construction of the HSDRHS system. This protocol the raisine of 1.4. This project funded the raising of LA-1 to the 100-ye elements of the Larose to Golden Meadow Hurrican ONGOING PROTECTION AND RESTORATION SUMMARIES Miles of Construction Total Budget Project Description Linuxed \$18,000,000 \$6,280,000 \$4,000,000 \$2,177,025 \$453,500 \$970,000 \$194,500 63,870, \$97 1993 1994 2009 2010 NIA 992 Not Avail N/A NA NIA NIA VIN MN NIA Acres Benefited N/A 643 NIA NIA 241 VIN 26 ¥, ST MARY, IBERIA, ST MARTIN LAFOURCHE IBERIA, VERMILION JEFFERSON VERMILION IBERIA ST MARY IBERIA Federal NUA AVA MA NVA NIA NIA MA MA NIA NIA NIA State Project Project Number Type £ WW 60 01 ۴ ₽ Ψ 0 TV-0075 TV-0006 TV-0055 TV-0057 TV-0011 NIA NIA NIA Ż Promitical Use of 1-10 Twin Span Dehris (Deauthorized) Hurds of Hawkowski Schwalthorized) Hurds of Hawkowski Schwalthor Ratking of LA 1 of Golden Readowr Foundelon of Golden Meedow Connelection of Golden Meedow Canal (E&D) Bayou Tigre Flood Control Complex Surpluce State Bank Statelization Quintana Canal/Cypremort Point Marsh Island Structures restrivater STATE CPRA Prog STATE

The purpose of this project is to pre-clear the Bay Weish disposal site adjacent to and east of the Houma Navidation Canal. 3A		The project consists of the design and construction for a segment of level around the Chabient Medical Clenter in Hourna, Louisana. The proposal from Jevel will surround the Chabiert Medical Center and will provide flood protection for the facility allowing operation during prossible flood events.	The purpose of this project was to beneficially use material from the dredging of the hourna Navigation Canal Bay Channel on Wine 3A Island.	The NIRCS-LDNRVCRI0 Blomass Program is a mutryear programmatic initiative to accelerate the collection, testing, and release of important costar expansion paints. The Blomass Program began in 1999 in conjunction with the LDNROCRD Broads Drogo Program with employees on plant performance and debiced diredged sediment. This program is an important coastal restoration program with empty and restoration plants the holocy debiced diredged sediment. This program is an important coastal restoration initiative that is advanced coastaleration blome beformed.	This multi-year cooperative agreement tunds the study of endemic wetland plant productively, with the goal of identifying specific environmential conditions for maximum growth of a number of variables (i.e., cubinars) within four plant species. The information obtained is interesting the interching plant species and variables to expected environmental conditions at restoration sites, threeby increasing the leading of estable respective efforts.	This is a coastal vegetation is needed. COASTWIDE annually and involves the histalicition of vegetative plantings in selected COASTWIDE areas where vegetation is needed.	The purpose of this project is to maintain and enhance the axisting ecological framework of the Barataria Basin by providing frestwater, 0 Interface, and sodment. This will counter salwater intrusion and holp offset march subsidence. This project can divert up to 10,650 21 cfs.	This project diverts freshwater and its accompanying ruthrents and sedment from the Mississippi River to coastal bays and marshes in Breton Sound for fish and widdle enhancement. This project can divert up to 6,000 cubit feet per second.
\$1,200,000	\$300,000	\$500,000	\$2,000,000	\$80,000	\$1,552,100	\$399,858	\$120,000,000	\$24,818,800
2012	NIA	2008	2007	NIA	NIA	N/A	2002	1991
NIA	N/A	Not Available	N/A	NA	NA	N/A	NIA	NIA
VN	NIA	V/N	N/A	WW	NIA	609	33000	16000
PLAQUEMINES	TERREBONNE	TERREBONNE	TERREBONNE	COASTWIDE	COASTWIDE	COASTWIDE	ST CHARLES	PLAQUEMINES
NIA	N/A	NIA	N/A	NRCS	NWRC	NRCS	USACE	USACE
ЧH	DM	Н	DM	٧P	٨Þ	٩>	FD	FD
VIN	AIA	VIN	VIV	NIA	NIA	NIA	BA-0001	8000*SB
Lock Structure Raising of LA 23 at LaReussite	Bay Welsh Disposal Site (Houma Navigation Canal)	Chabert Ring Levee	W ine Island	NRCS Biomass Production Program	NRCS Biomass Production Program	NRCS Vegelative Planting	Davis Pond Freshwater Diversion	Caemarvon Freshwater Diversion
STATE	STATE	STATE	STATE	STATE	STATE	STATE	WRDA	WRDA

~

Notes: Notes: Prove Preventional Mediands Planning, Protection and Restortation Art: State-Restortation projects funded primary by the State of Louisans, SECTION 2041135-Wale Research Developmental Act State/Restortation projects funded primary by the State of Louisans, SECTION 2041135-Wale Research Developmental Act Sections 204 and 1135 Benetical use of dradged management Agency funded projects CupParament Act, LOA-Louisana Coastati Arte & FEMA-F ederal Envergency anangement Agency funded projects CupParament Act LOA-Louisana Coastati Arte & FEMA-F ederal Envergency anangement Agency funded projects CupParament Act LOA-Louisana Accastation and Envergency Management Agency funded projects CupParament Agency HOD-Housing and Enforcement, ENVES-Maternal Matrice Agency. Edera Enversion Agency Management Agency, HUD-Housing and Enforcement, ENVES-National Matrice Agency. Edera Enversion Agency Management Agency, HUD-Housing and Enforcement, ENVES-National Matrice Agency. Edera Enversion Agency Management, Nator Planding and Enforcement, ENVES-National Matrice Estimate Server, MICS-Matual Resource Conservation Server, MUCP-Mational walland Resource Losset-Estimate Server, USC-Exerce Journe Agency, UND-Housing agency, MUCP-Mational Walland Exercement, ENVES-National Matrice Estimate Server, USC-Exerce Conservation Server, MUCP-Mational Walland Resource Agency, USFWVS-LU S.

PoliceT.Two. BH=Barrier isondheadland. DM=Bendicial U-se of Drogod Materia, FD=Fredtwater Diversion, HP=Hurricane Protection, HP=Hydrobogk Restoration, MC=Match Creation, MM=Marsh Maragement, OM=Outid Management, OT=other project types (infrastructure, etc.), PP=Property Purchase, SD=Sediment Diversion, SNT=Sediment and Nutrient Trapping, SP=Shoreine Protection, TE=Tensces, VF=Veget&ion Planting.

PPL

Appendix B

Page intentionally left blank

Three-Year Expenditure Projections

Table B-1. Coastal Wetlands Planning, Protection and Restoration Act (CWPPRA) Projected Expenditures

Project ID	Project Name	FY 2019	FY 2020	FY 2021	Project Total (FY 2019 - FY 2021)
Engineeri	ng and Design (P1)				•
v	Caminada Headlands Back Barrier Marsh Creation				
BA-0193	Increment 2 ¹	\$852,977	\$0	\$0	\$852,97
BA-0194	East Leeville Marsh Creation and Nourishment ¹	\$1,092,071	\$472,732	\$0	\$1,564,803
BA-0195	Barataria Bay Rim Marsh Creation and Nourishment	\$43,982	\$28,317	\$0	\$72,300
	Northeast Turtle Bay Marsh Creation & Critical Area				
BA-0206	Shoreline Protection	\$231,030	\$231,030	\$115,515	\$577,576
BS-0032	Mid Breton Land Bridge Marsh Creation & Terracing	\$1,375,460	\$1,375,460	\$687,730	\$3,438,649
CS-0078	No Name Bayou Marsh Creation and Nourishment ¹	\$505,837	\$141,357	\$0	\$647,194
CS-0079	Oyster Lake Marsh Creation and Nourishment ¹	\$700,000	\$120,000	\$0	\$820,000
CS-0081	Sabine Refuge Marsh Creation Cycles 6 & 7	\$223,565	\$223,565	\$111,782	\$558,912
ME-0031	Freshwater Bayou Marsh Creation	\$40,350	\$28,317	\$0	\$68,66
ME-0032	South Grand Chenier Marsh Creation- Baker Tract	\$10,000	\$5,000	\$0	\$15,000
PO-0075	LaBranche East Marsh Creation	\$40,350	\$0	\$0	\$40,350
PO-0133	LaBranche Central Marsh Creation	\$45,947	\$0	\$0	\$45,94
	New Orleans Landbridge Shoreline Stabilization and Marsh				
PO-0169	Creation ¹	\$650,000	\$0	\$0	\$650,000
PO-0173	Fritchie Marsh Creation and Terracing	\$120,000	\$80,000	\$0	\$200,000
PO-0178	Bayou LaLoutre Ridge Restoration and Marsh Creation ¹	\$1,800,000	\$800,000	\$0	\$2,600,000
	St. Catherine Island Marsh Creation and Shoreline				
PO-0179	Protection ¹	\$1,150,940	\$542,361	\$0	\$1,693,30 ⁻
PO-0181	Bayou Cane Marsh Creation	\$1,199,418	\$1,199,418	\$599,709	\$2,998,54
TE-0112	North Catfish Lake Marsh Creation	\$17,780	\$17,780	\$8,038	\$43,598
TE-0117	Island Road Marsh Creation and Nourishment ¹	\$718,748	\$181,164	\$0	\$899,912
TE-0134	West Fourchon Marsh Creation ¹	\$135,441	\$0	\$0	\$135,447
TE-0138	Bayou DeCade Ridge and Marsh Creation	\$596,296	\$393,719	\$0	\$990,014
Constru	ction (P2)				
BA-0125	Northwest Turtle Bay Marsh Creation ¹	\$20,646,943	\$8,953,057	\$0	\$29,600,000
BA-0171	Caminada Headlands Back Barrier Marsh Creation ¹	\$2,227,089	\$13,863,465	\$29,954,019	\$46,044,573
CS-0049	Cameron-Creole Freshwater Introduction	\$200,000	\$1,681,067	\$720,457	\$2,601,524
CS-0054	Cameron-Creole Watershed Grand Bayou Marsh Creation ¹	\$9,174,182	\$0	\$0	\$9,174,182
CS-0066	Cameron Meadows Marsh Creation and Terracing ¹	\$163,000	\$7,859,999	\$18,179,997	\$26,202,996
LA-0284	Salvinia Weevil Propagation Facility ¹	\$280,967	\$0	\$0	\$280,967
ME-0018	Rockefeller Refuge Gulf Shoreline Stabilization ¹	\$16,632,284	\$2,000,000	\$0	\$18,632,284
ME-0020	South Grand Chenier Marsh Creation Project	\$1,922,200	\$189,587	\$0	\$2,111,787
TE-0072	Lost Lake Marsh Creation and Hydrologic Restoration ¹	\$18,000,000	\$0	\$0	\$18,000,000
TV-0063	Cole's Bayou Marsh Restoration ¹	\$12,068,795	\$0	\$0	\$12,068,795
Demonsti	ration Projects (P1 & P2)				
LA-0280	Shoreline Protection, Preservation, and Restoration (SPPR) Panel ¹	\$319 FGF	¢27.056	\$0	¢345 60
Subtotal		\$318,565 \$93,184,217	\$27,056 \$40,414,451	\$0 \$50,377,247	\$345,62 ⁻ \$183,975,916
	nt for Outlying Years ²	\$33,104,217 N/A	\$49,585,549	\$39,622,753	\$89,208,30
	enditures	\$93,184,217	\$90,000,000	\$90,000,000	\$273,184,21
	Expenditures (See Table B-5)	(\$624,870)	\$00,000,000	\$00,000,000 \$0	(\$624,870
	xpenditures (see Note 1)	(\$624,870) \$78,290,682	\$0 \$74,933,437	پر \$77,266,129	\$230,490,248
ι συσίαι Ε	Aperialiai 63 (366 NOLE 1)	\$10,230,00Z	y14,300,401	φ11,200,129	φ 230,430,24 0

Notes:

1- Project is being led by CPRA; projected expenditures include Federal funds; any State expenditures beyond its 15% cost share will be reimbursed by the Federal partner.

2- Because CWPPRA projects compete for funding annually, CWPPRA expenditures as presented in Table B-1 (which include projected expenditures for approved projects only) do not adequately capture likely CWPPRA expenditures in outlying years. The State's estimated CWPPRA expenditures for FY 2020 - FY 2021 are therefore based on prior years' expenditures.

Table B-2. Louisiana WRDA Projected Expenditures

Project ID	Project Name	FY 2019	FY 2020	FY 2021	Project Total (FY 2019 - FY 2021)
LA-0020	Southwest Coastal Louisiana ¹	\$311,854	TBD	TBD	\$311,854
Total Exp	enditures	\$311,854	\$0	\$0	\$311,854
Surplus E	xpenditures for WRDA (see Table B-6)	(\$311,854)	\$0	\$0	(\$311,854)
Trust Fun	d Expenditures for WRDA	\$0	\$0	\$0	\$0
Notes:					

Trust Fund dollars.

Table B-3. Community Development Block Grant (CDBG) Projected Expenditures

Project ID	Project Name	FY 2019	FY 2020	FY 2021	Project Total (FY 2019 - FY 2021)
BA-0082	Lafitte Area Levee Repair	\$417,000	\$0	\$0	\$417,000
TE-0078	Cut-Off/Pointe Aux Chene Levee	\$4,484,248	\$680,708	\$0	\$5,164,956
N/A	CDBG Program Administration	\$11,680	\$11,680	\$0	\$23,360
Total Expen	ditures	\$4,912,928	\$692,388	\$0	\$5,605,316

Table B-4. State-Only Project Expenditures (Non-Surplus)

Project ID	Project Name	FY 2019	FY 2020	FY 2021	Project Total (FY 2019 - FY 2021)
MOEX Pro	jects				
	Hydrologic Restoration of the Amite River				
PO-0142	Diversion Canal ¹	\$352,343	\$131,250	\$1,057,030	\$1,540,623
Capital Ou	itlay Projects				
BA-0066	West Bank and Vicinity ²	\$405,000	\$0	\$0	\$405,000
TE-0064	Morganza to the Gulf ²	\$9,000,000	\$500,000	\$0	\$9,500,000
Projects w	vith Trust Fund Expenditures				
BA-0109	HSDRRS Mitigation- WBV ³	\$75,000	\$50,000	\$10,000	\$135,000
BA-0154	Previously Authorized Mitigation WBV ³	\$30,000	\$7,500	\$0	\$37,500
	New Orleans to Venice Mitigation-				
BA-0158	Plaquemines Non-Fed ³	\$11,680	\$11,680	\$11,680	\$35,040
BA-0159	New Orleans to Venice Mitigation- Fed ³	\$11,680	\$11,680	\$11,680	\$35,040
PO-0057	SELA- Overall ³	\$13,286	\$13,286	\$6,643	\$33,215
PO-0121	HSDRRS Mitigation- LPV ³	\$71,307	\$0	\$0	\$71,307
Total State	e Expenditures	\$9,970,296	\$725,396	\$1,097,033	\$11,792,725
Notes:					

1- Projected expenditures are for post-construction activities including site assessment, nutria control, and vegetative plantings.

Project receiving supplemental funding from Surplus funds (see Table B-5).
 Project is currently 100% Federal. Projected expenditures are for staff coordination with Federal project team members.

1- Project expenditures are funded through Surplus revenues (see Table B-5); expenditures in future fiscal years will be covered with accrued credit or

Table B-5. Surplus Projected Expenditures (2007, 2008, 2009)

Project ID	Project Name	FY 2019	FY 2020	FY 2021	Project Total (FY 2019 - FY 2021)
BA-0043 (EB)	Mississippi River Long Distance Sediment Pipeline ¹	\$5,000,000	\$4,364,368	\$0	\$9,364,368
BA-0045	Caminada Headland Beach and Dune Restoration ²	\$96,024	\$80,840	\$0	\$176,864
	Medium Diversion with Dedicated Dredging at Myrtle				
BA-0071	Grove ³	\$1,214,260	\$0	\$0	\$1,214,260
BA-0075-1	Jean Lafitte Tidal Protection	\$10,000,000	\$4,800,000	\$0	\$14,800,000
BA-0075-2	Rosethorne Tidal Protection	\$9,000,000	\$0	\$0	\$9,000,000
BA-0169	Kraemer/Bayou Boeuf Levee Lift	\$100,000	\$0	\$0	\$100,000
LA-0020	Southwest Coastal Louisiana	\$311,854	\$0	\$0	\$311,854
PO-0062	West Shore Lake Pontchartrain	\$3,500,000	\$0	\$0	\$3,500,000
PO-0063	Lake Pontchartrain and Vicinity	\$11,504,188	\$1,566,720	\$340,048	\$13,410,956
PO-0167	St. Tammany Parish Coastal Protection Study	\$1,200,000	\$500,000	\$0	\$1,700,000
PO-0170	Violet Canal North Levee Alignment ⁴	\$218,874	\$0	\$0	\$218,874
TE-0064	Morganza to the Gulf	\$8,600,000	\$2,000,000	\$0	\$10,600,000
TE-0065-SP	Larose to Golden Meadow- Larose Sheetpile ⁵	\$3,000,000	\$1,741,940	\$741,940	\$5,483,880
TE-0116	St. Mary Backwater Flooding	\$500,000	\$0	\$0	\$500,000
TV-0057	Delcambre-Avery Canal (E&D)	\$100,000	\$573,268	\$0	\$673,268
TV-0067	Bayou Tigre Flood Control Project	\$1,000,000	\$1,000,000	\$3,372,021	\$5,372,021
TV-0075	Bayou Tigre Flood Control Complex	\$0	\$1,000,000	\$4,838,522	\$5,838,522
N/A	Southeast Louisiana Flood Protection/ LERRDS ⁶	\$50,599,000	\$2,259,200	\$3,460,000	\$56,318,200
N/A	Reprogrammed Surplus ⁷	\$5,804,321	\$0	\$0	\$5,804,321
Programma	tic and Non-Project Surplus Expenditures				
LA-0026	Rehabilitation and Repair of State Restoration Projects	\$1,098,239	\$0	\$0	\$1,098,239
LA-0027	Barrier Island Maintenance Program	\$2,900,110	\$0	\$0	\$2,900,110
	Coastal Wetlands Planning, Protection and Restoration				
N/A	Act (CWPPRA) ⁸	\$624,870	\$0	\$0	\$624,870
LA-0025	Innovative Coast-Wide Initiatives	\$106,394	\$0	\$0	\$106,394
N/A	Beneficial Use	\$1,289,186	\$0	\$0	\$1,289,186
N/A	Emergency Reserve	\$5,993,775	\$0	\$0	\$5,993,775
N/A	Innovative Programs	\$876,143	\$0	\$0	\$876,143
N/A	Non-Structural Program Development9	\$1,000,000	\$151,047	\$0	\$1,151,047
	Levee Engineering and Design Standards Development	, ,,	,		, , , ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
LA-0265	and Analysis	\$0	\$0	\$0	\$0
Total Expendi	tures	\$125,637,238	\$20,037,383	\$12,752,531	\$158,427,152

Notes:

1- Expenditures may be used to supplement funding for Large-Scale Barataria Marsh Creation (BA-0192) and other coastal projects.

2- Surplus funds include post-construction monitoring expenditures (see Table B-8).

3- Includes funding for Diversion Modeling and Model Improvement (LA-0282).

4- Project constructed with leftover funds from project PO-0061 (completed in FY 2011).

5- Expenditures will be used to fund additional improvements within the Larose to Golden Meadow alignment.

6- Includes funds that may be used for West Bank and Vicinity (BA-0066), HSDRRS Mitigation- West Bank and Vicinity (BA-0109), HSDRRS Mitigation-Lake Pontchartrain and Vicinity (PO-0121), SELA (PO-0057), Permanent Closure of Canals and Pump Stations (PO-0060), LPV Task Force Guardian Mitigation- Bayou Sauvage (PO-0145), Previously Authorized Mitigation LPV- Manchac (PO-0146), Previously Authorized Mitigation- WBV (BA-0154), New Orleans to Venice (BA-0067), New Orleans to Venice Mitigation- Plaquemines Non-Fed (BA-0158), New Orleans to Venice Mitigation- Fed (BA-0159), and/or Plaquemines TFU Mitigation- Braithwaite to Scarsdale (BA-0156).

7- Represents unexpended funds from previously completed Surplus projects. Funds will be used for implementation of additional projects subject to approval by the Joint Legislative Committee on the Budget. 8- Expenditures will be used to supplement funding for CWPPRA projects (see Table B-1).

9- Funds will be used to develop a coordinated strategy for implementing nonstructural projects identified in the Master Plan coastal communities. This may also include development of pilot projects in coastal parishes with high levels of risk and vulnerability.

Table B-6. CWPPRA Monitoring Projected Expenditures

Project No.	WPPRA Monitoring Projected Expenditures Project Name	FY 2019	FY 2020	FY 2021	Project Total (FY 2019 - FY 2021)
AT-0002	Atchafalaya Sediment Delivery	\$2,920	\$0	\$0	\$2,920
AT-0003	Big Island Mining	\$2,920	\$0	\$0	\$2,920
BA-0002	GIWW (Gulf Intracoastal Waterway) to Clovelly Hydrologic Restoration	\$41,024	\$46,024	\$2,336	\$89,384
BA-0003-C	Naomi Outfall Management	\$30,340	\$22,014	\$16,424	\$68,778
BA-0020	Jonathan Davis Wetland Protection	\$16,936	\$11,680	\$4,380	\$32,996
BA-0027-C	Barataria Landbridge Shoreline Protection (Phase 3)	\$4,380	\$19,272	\$11,680	\$35,332
BA-0034-2	Hydrologic Restoration and Vegetative Planting in the Des Allemands Swamp	\$61,680	\$47,300	\$57,300	\$166,280
BA-0035	Chaland Pass to Grand Bayou	\$4,380	\$90,440	\$11,680	\$106,500
BA-0036	Dedicated Dredging on the Barataria Basin Landbridge	\$4,380	\$4,380	\$4,380	\$13,140
BA-0037	Little Lake Shoreline Protection/Dedicated Dredging Near Round Lake	\$5,840	\$2,920	\$2,920	\$11,680
BA-0038	Barataria Barrier Island Complex Project: Pelican Island and Pass La Mer	\$4 290	¢17 200	\$11,680	\$33,360
BA-0039	to Chaland Pass Restoration Mississippi River Sediment Delivery (Bayou Dupont)	\$4,380 \$11,422	\$17,300 \$12,840	\$83,930	\$108,192
BA-0042	Lake Hermitage Marsh Creation	\$18,713	\$76,625	\$12,848	\$108,186
BA-0048	Bayou Dupont Marsh and Ridge Creation	\$14,464	\$29,228	\$21,152	\$64,844
BA-0068	Grand Liard Marsh and Ridge Restoration	\$106,264	\$30,520	\$11,680	\$148,464
BA-0164	Bayou Dupont Sediment Delivery Marsh Creation #3	\$24,759	\$3,504	\$10,512	\$38,775
BA-0173 BS-0003-A	Bayou Grande Chenier Marsh and Ridge Restoration Caernarvon Diversion Outfall Management	\$0 \$2,920	\$2,920 \$2,920	\$107,846 \$14,016	\$110,766 \$19,856
BS-0003-A BS-0011	Delta Management at Fort St. Philip	\$14.600	\$4,380	\$4,380	\$23,360
BS-0016	South Lake Lery Shoreline and Marsh Restoration	\$16,224	\$4,672	\$22,473	\$43,369
CS-0004-A	Cameron-Creole Maintenance	\$44,384	\$44,384	\$30,368	\$119,136
CS-0011-B	Sweet Lake/Willow Lake Hydrologic Restoration	\$2,920	\$2,920	\$2,920	\$8,760
CS-0021	Highway 384 Hydrologic Restoration	\$8,760	\$10,804	\$2,920	\$22,484
CS-0023	Replace Sabine Refuge Water Control Structures at Headquarters Canal, West Cove Canal, and Hog Island Gully	\$10,804	\$5,840	\$2,920	\$19,564
CS-0023	Perry Ridge Shore Protection	\$2,920	\$2,920	\$2,320 \$0	\$5,840
CS-0027	Black Bayou Hydrologic Restoration	\$31,038	\$18,190	\$18,190	\$67,419
CS-0028-3	Sabine Refuge Marsh Creation, Increment 3	\$12,264	\$8,760	\$16,936	\$37,960
CS-0028-4	Sabine Refuge Marsh Creation, Increment 4	\$12,264	\$4,380	\$16,936	\$33,580
CS-0029	Black Bayou Culverts Hydrologic Restoration	\$2,920	\$16,936	\$16,936	\$36,792
CS-0030 CS-0031	GIWW - Perry Ridge West Bank Stabilization Holly Beach Sand Management	\$2,920 \$16,936	\$2,920 \$2,920	\$20,148 \$16,936	\$25,988 \$36,792
CS-0031 CS-0032	East Sabine Lake Hydrologic Restoration	\$10,930	\$2,920	\$12,264	\$27,448
CS-0054	Cameron-Creole Watershed Grand Bayou Marsh Creation	\$2,920	\$2,920	\$2,920	\$8,760
CS-0059	Oyster Bayou Marsh Creation & Terracing	\$29,950	\$43,966	\$43,966	\$117,883
LA-0003-B	Coastwide Nutria Control Plan	\$152,920	\$152,920	\$152,920	\$458,760
LA-0008	Bioengineered Oyster Reef Demonstration	\$2,920	\$0	\$0	\$2,920
LA-0016 LA-0039	Non-Rock Alternatives for Shoreline Protection Demonstration Project Coastwide Plantings Program	\$5,840 \$138,324	\$0 \$158,180	\$0 \$162,852	\$5,840 \$459,356
ME-0004	Freshwater Bayou Wetland (Phases 1 & 2)	\$6,140	\$16,936	\$16,936	\$40,012
ME-0011	Humble Canal Hydrologic Restoration	\$31,038	\$31,038	\$17,022	\$79,099
ME-0013	Freshwater Bayou Bank Stabilization	\$2,920	\$7,016	\$2,920	\$12,856
ME-0014	Pecan Island Terracing	\$2,920	\$2,920	\$22,776	\$28,616
ME-0016	Freshwater Introduction South of Highway 82	\$30,206	\$29,038	\$15,022	\$74,267
ME-0018 ME-0019	Rockefeller Refuge Gulf Shoreline Stabilization Grand-White Lakes Landbridge Protection	\$11,680 \$2,920	\$76,680 \$2,920	\$76,680 \$2,920	\$165,040 \$8,760
ME-0020	South Grand Chenier Hydrologic Restoration Project	\$2,920	\$2,920	\$2,920	\$8,760
ME-0022	South White Lake Shoreline Protection	\$2,920	\$2,920	\$2,920	\$8,760
MR-0003	West Bay Sediment Diversion	\$176,440	\$14,600	\$5,840	\$196,880
MR-0006	Channel Armor Gap Crevasse	\$4,672	\$0	\$0	\$4,672
MR-0009	Delta-Wide Crevasses	\$162,943	\$4,672	\$4,672	\$172,287
PO-0006 PO-0016	Fritchie Marsh Restoration Bayou Sauvage National Wildlife Refuge Hydrologic Restoration, Phase 1	\$14,600	\$11,680	\$4,380	\$30,660
PO-0018	Bayou Sauvage National Wildlife Refuge Hydrologic Restoration, Phase 1	\$2,920	\$2,920	\$2,920	\$8,760
		\$2,920	\$2,920	\$2,920	\$8,760
PO-0022	Bayou Chevee Shoreline Protection	\$8,760	\$7,592	\$8,760	\$25,112
PO-0024	Hopedale Hydrologic Restoration	\$2,920	\$2,920	\$2,920	\$8,760
PO-0033 PO-0104	Goose Point/Point Platte Marsh Creation Bayou Bonfouca Marsh Creation	\$8,760 \$44,675	\$2,336 \$43,784	\$2,336 \$2,336	\$13,432 \$90,795
TE-0020	Isle Dernieres Restoration East Island	\$21,024	\$2,920	\$0	\$23,944
12 0020	Lake Chapeau Sediment Input and Hydrologic Restoration, Point Au Fer	¢21,021	<i>42,020</i>	ψũ	<i>420,011</i>
TE-0026	Island	\$21,024	\$2,336	\$2,336	\$25,696
TE-0028	Brady Canaly Hydrologic Restoration	\$46,024	\$30,840	\$36,680	\$113,544
TE-0034	Penchant Basin Natural Resources Plan, Increment 1	\$92,520	\$55,840	\$5,840	\$154,200
TE-0037 TE-0040	New Cut Dune/Marsh Restoration Timbalier Island Dune/Marsh Restoration	\$21,024	\$5,840 \$20,440	\$3,504	\$30,368
TE-0040	North Lake Mechant Landbridge Restoration	\$11,680 \$28,032	\$20,440 \$28,032	\$2,336 \$3,504	\$34,456 \$59,568
TE-0046	West Lake Boudreaux Shoreline Protection and Marsh Creation	\$2,628	\$20,615	\$18,104	\$41,347
TE-0048	Raccoon Island Shoreline Protection/Marsh Creation	\$68,760	\$48,760	\$5,840	\$123,360
TE-0050	Whiskey Island Back Barrier Marsh Creation	\$21,024	\$5,840	\$3,504	\$30,368
TE-0052	West Belle Pass Barrier Headland Restoration	\$5,840	\$2,920	\$2,920	\$11,680
TE-0072	Lost Lake Marsh Creation and Hydrologic Restoration	\$2,920	\$5,840	\$5,840	\$14,600
TV-0004	Cote Blanche Hydrologic Restoration Little Vermilion Bay Sediment Trapping	\$2,920	\$2,920	\$2,920	\$8,760 \$5,840
TV-0012 TV-0013-A	Oaks/Avery Canal Hydrologic Restoration, Increment 1	\$2,920 \$8,968	\$2,920 \$16,936	\$0 \$16,936	\$5,840 \$42,840
TV-0013-A	Marsh Island Hydrologic Restoration	\$6,966	\$20,982	\$16,936	\$44,884
TV-0015	Sediment Trapping at "The Jaws"	\$16,936	\$2,920	\$2,920	\$22,776
TV-0017	Lake Portage Land Bridge	\$16,936	\$16,936	\$2,920	\$36,792

Table B-6. CWPPRA Monitoring Projected Expenditures

Project No.	Project Name	FY 2019	FY 2020	FY 2021	Project Total (FY 2019 - FY 2021)
TV-0018	Four Mile Canal Terracing and Sediment Trapping	\$2,920	\$2,920	\$8,760	\$14,600
TV-0021	East Marsh Island Marsh Creation	\$11,362	\$12,264	\$20,706	\$44,333
TV-0063	Coles Bayou Marsh Restoration	\$8,760	\$28,864	\$16,936	\$54,560
CRMS	Coastwide Reference Monitoring System	\$8,667,740	\$8,995,740	\$9,192,820	\$26,856,300
	Total Expenditures	\$10,494,018	\$10,510,258	\$10,501,213	\$31,505,489
	Federal CWPPRA Monitoring Expenditures	\$8,919,915	\$8,933,719	\$8,926,031	\$26,779,665
	Trust Fund CWPPRA Monitoring Expenditures	\$1,574,103	\$1,576,539	\$1,575,182	\$4,725,823

Table B-7. Projected Expenditures for Monitoring of WRDA Projects

Project ID	Project Name	FY 2019	FY 2020	FY 2021	Project Total (FY 2019 - FY 2021)
BA-0001	Davis Pond Freshwater Diversion	\$653,999	\$693,455	\$700,557	\$2,048,011
BS-0008	Caernarvon Freshwater Diversion	\$536,352	\$567,572	\$587,990	\$1,691,914
	Total Expenditures (GOMESA) ¹	\$1,190,351	\$1,261,027	\$1,288,547	\$3,739,924

Notes: 1- Monitoring expenditures of WRDA projects are subject to a 75% federal/25% state cost share. For FY 2019-2021, CPRA is funding its 25% cost share of monitoring costs with GOMESA funds, and will seek reimbursement from the USACE for the 75% federal match.

Table B-8. Projected Expenditures for Monitoring of Other Projects

Project ID	Project Name	FY 2019	FY 2020	FY 2021	Project Total (FY 2019 - FY 2021)
Berm to Barrier	Projects ¹				,
BA-0040	Riverine Sand Mining/Scofield Island Restoration	\$84,372	\$5,840	\$5,840	\$96,052
BA-0110	Shell Island East	\$14,600	\$17,300	\$4,380	\$36,280
NFWF Projects					
BA-0143	Caminada Headland Beach and Dune Restoration Increment 2	\$353,360	\$351,024	\$291,024	\$995,408
NRDA Projects					
BA-0111	Shell Island West	\$134,678	\$26,424	\$91,024	\$252,126
BA-0141	NRDA Lake Hermitage Marsh Creation Increment 2	\$58,360	\$81,024	\$31,680	\$171,064
BA-0142	NRDA Cheniere Ronquille	\$114,040	\$26,424	\$91,024	\$231,488
TE-0100	NRDA Caillou Lake Headlands	\$164,300	\$131,024	\$141,024	\$436,348
Surplus Project	s ²		· · ·		
BA-0045	Caminada Headland Restoration	\$96,024	\$80,840	\$0	\$176,864
USACE Mitigation	on Projects				
BA-0109	HSDRRS Mitigation - WBV	\$11,680	\$11,680	\$11,680	\$35,040
BA-0154	Previously Authorized Mitigation - WBV	\$11,680	\$11,680	\$11,680	\$35,040
BA-0158	New Orleans to Venice Mitigation - Plaquemines Non-Federal	\$7,300	\$7,300	\$0	\$14,600
BA-0159	New Orleans to Venice Mitigation - Federal	\$7,300	\$7,300	\$0	\$14,600
PO-0038-SF	MRGO Closure Structure	\$7,300	\$7,300	\$0	\$14,600
PO-0093	MRGO - Lake Borgne -Bayou Dupre Segment	\$7,300	\$7,300	\$0	\$14,600
PO-0094	MRGO - Lake Borgne -Bayou Bienvenue Segment	\$7,300	\$7,300	\$0	\$14,600
PO-0095	MRGO - Lake Borgne -Shell Beach Segment	\$7,300	\$7,300	\$0	\$14,600
PO-0121	HSDRRS Mitigation - LPV	\$7,300	\$7,300	\$7,300	\$21,900
PO-0145	LPV Task Force Guardian Mitigation - Bayou Sauvage	\$7,300	\$7,300	\$7,300	\$21,900
PO-0146	LPV Mitigation Project, Manchac WMA Marsh Creation	\$7,300	\$7,300	\$7,300	\$21,900
LOSCO Projects	3 3				
BA-0196	LOSCO- EML	\$36,680	\$36,680	\$31.680	\$105.040
LA-0278	General Oil Spill- LOSCO	\$11,680	\$11,680	\$11,680	\$35,040
LA-0283	Multiple Oil Spill- LOSCO	\$41,024	\$41,024	\$41,024	\$123,072
State-Only Proje	ects	· · ·			
PO-0142	Hydrologic Restoration of the Amite River Diversion Canal	\$76,796	\$43,447	\$33,014	\$153,257
PO-0148	Living Shoreline	\$37,916	\$67,131	\$43,755	\$148,802
PO-0152	Lake Borgne and MRGO Shoreline Protection	\$7,300	\$7,300	\$0	\$14,600
	Total Expenditures	\$1,320,190	\$1,016,222	\$862,409	\$3,035,419
	NFWF Expenditures	\$353,360	\$351,024	\$291,024	\$995,408
	NRDA Expenditures	\$471,378	\$264,896	\$354,752	\$1,091,026
	Surplus Expenditures	\$96,024	\$80,840	\$0	\$176,864
	LOSCO Expenditures	\$89,384	\$89,384	\$84,384	\$263,152
	Trust Fund Expenditures	\$310,044	\$230,078	\$132,249	\$672,371

Notes: 1- Monitoring expenditures funded with remaining Berm to Barrier funds (included in Trust Fund Carry Forward in Table 4-1). 2- Monitoring expenditures funded with Surplus funds (see Table B-5).

Table B-9. CWPPRA Projects with O&M Budget Project Expenditures^{1,2,3}

Project No.	Project Name	FY 2019	FY 2020	FY 2021	Project Total (FY 2019 - FY 2021)
AT-0002	Atchafalaya Sediment Delivery	\$2,920	\$2,920	\$2,920	\$8,760
AT-0003	Big Island Mining	\$2,920	\$2,920	\$2,920	\$8,760
BA-0002 BA-0003-C	GIWW (Gulf Intracoastal Waterway) to Clovelly Hydrologic Restoration Naomi Outfall Management	\$28,760 \$21,740	\$24,694 \$21,740	\$22,300 \$22,616	\$75,754 \$66,096
BA-0003-C	Jonathan Davis Wetland Protection	\$5,840	\$5,840	\$6,716	\$18,396
BA-0023	Barataria Bay Waterway West Side Shoreline Protection	\$12,650	\$12,876	\$0	\$25,526
BA-0026	Barataria Bay Waterway East Side Shoreline Protection	\$88,756	\$9,216	\$9,456	\$107,428
BA-0027	Barataria Basin Landbridge Shoreline Protection, Phases 1 and 2	\$4,672	\$3,679	\$3,679	\$12,030
BA-0027-C BA-0027-D	Barataria Basin Landbridge Shoreline Protection, Phase 3 Barataria Basin Landbridge Shoreline Protection Phase 4	\$68,176 \$4,672	\$3,679 \$3,679	\$3,679 \$3,679	\$75,534 \$12,030
BA-0027-D BA-0034-2	Hydrologic Restoration and Vegetative Plantings in the des Allemands Swamp	\$4,672	\$3,679	\$3,679	\$12,030
BA-0035	Pass Chaland to Grand Bayou Pass Barrier Shoreline Restoration	\$9,461	\$9,578	\$10,220	\$29,258
BA-0037	Little Lake Shoreline Protection/ Dedicated Dredging Near Round Lake	\$646,680	\$10,337	\$5,490	\$662,506
BA-0038	Pelican Island and Pass La Mer to Chaland Pass Restoration	\$9,928	\$110,045	\$10,045	\$130,018
BA-0039	Bayou Dupont Sediment Delivery System	\$6,140	\$6,140	\$6,140	\$18,420
BA-0041 BA-0042	South Shore of the Pen Shoreline Protection and Marsh Creation Lake Hermitage Marsh Creation	\$281,008 \$11,797	\$13,972 \$11,972	\$14,252 \$12,147	\$309,232 \$35,916
BA-0042 BA-0048	Bayou Dupont Marsh and Ridge Creation	\$291,200	\$19,856	\$147,785	\$458,841
BA-0068	Grand Liard Marsh and Ridge Restoration	\$301,194	\$19,856	\$63,081	\$384,131
BA-0164	Bayou Dupont Sediment Delivery- Marsh Creation 3	\$9,928	\$99,856	\$9,928	\$119,712
BA-0173	Bayou Grande Chenier Marsh and Ridge Restoration	\$50,000	\$70,440	\$284,046	\$404,486
BS-0003-A	Caernarvon Diversion Outfall Management	\$47,336	\$47,336	\$47,336	\$142,008
BS-0011 BS-0016	Delta Management at Fort St. Philip South Lake Lery Shoreline and Marsh Restoration	\$5,840 \$5,840	\$5,840 \$5,840	\$5,840 \$5,840	\$17,520 \$17,520
CS-0004-A	Cameron-Creole Maintenance	\$204,200	\$204,200	\$5,640	\$17,520
CS-0011-B	Sweet Lake/Willow Lake Hydrologic Restoration	\$417,848	\$4,088	\$4,380	\$426,316
CS-0020	East Mud Lake Marsh Management	\$576,800	\$5,840	\$5,840	\$588,480
CS-0021	Highway 384 Hydrologic Restoration	\$40,840	\$39,088	\$19,380	\$99,308
CS-0023	Replace Sabine Refuge Water Control Structures at Headquarters Canal, West Cove	\$53,796	\$39,088	\$59,380	\$152,264
CS-0024	Canal, and Hog Island Gully Perry Ridge Shore Protection	\$3,796	\$4,088	\$4,380	\$12,264
CS-0024 CS-0027	Black Bayou Hydrologic Restoration	\$5,789,200	\$4,088	\$14,380	\$5,817,668
CS-0028-2	Sabine Refuge Marsh Creation, Increment 2	\$388,760	\$388,760	\$88,760	\$866,280
CS-0028-4	Sabine Refuge Marsh Creation, Increment 4	\$70,625	\$4,088	\$4,380	\$79,093
CS-0028-5	Sabine Refuge Marsh Creation, Increment 5	\$70,625	\$4,088	\$4,380	\$79,093
CS-0029	Black Bayou Culverts Hydrologic Restoration	\$141,680	\$31,680	\$31,680	\$205,040
CS-0030 CS-0031	GIWW - Perry Ridge West Bank Stabilization Holly Beach Sand Management	\$358,680 \$48,760	\$4,088 \$4,088	\$4,380 \$4,380	\$367,148 \$57,228
CS-0031	East Sabine Lake Hydrologic Restoration	\$4,672	\$4,000	\$4,560	\$14,016
CS-0049	Cameron-Creole Freshwater Introduction - Vegetative Plantings	\$474,600	\$54,088	\$54,380	\$583,068
CS-0054	Cameron-Creole Watershed Grand Bayou Marsh Creation	\$3,796	\$4,088	\$195,507	\$203,391
CS-0059	Oyster Bayou Marsh Creation & Terracing	\$3,796		\$4,380	\$210,391
LA-0003-B LA-0016	Coastwide Nutria Control Program	\$3,454,859 \$3,796	\$3,453,968 \$4,088	\$3,455,500 \$4,380	\$10,364,327 \$12,264
LA-0016 LA-0039	Non-Rock Alternatives for Shoreline Protection Demonstration Project Coastwide Plantings Program		\$1,210,899		\$3,634,249
ME-0004	Freshwater Bayou Wetland (Phases 1 & 2)	\$3,796	\$4,088	\$4,380	\$12,264
ME-0011	Humble Canal Hydrologic Restoration	\$28,796	\$19,088	\$19,380	\$67,264
ME-0013	Freshwater Bayou Bank Stabilization	\$3,796	\$4,088	\$4,380	\$12,264
ME-0014	Pecan Island Terracing	\$3,796	\$4,088	\$4,380	\$12,264
ME-0016 ME-0018	Freshwater Introduction South of Highway 82 Rockefeller Refuge Gulf Shoreline Stabilization	\$13,796 \$3,796	\$14,088 \$4,088	\$14,380 \$4,380	\$42,264 \$12,264
ME-0018 ME-0019	Grand-White Lakes Landbridge Protection	\$3,796	\$4,088	\$4,380	\$12,264
ME-0020	South Grand Chenier Hydrologic Restoration Project	\$3,796	\$4,088	\$4,380	\$12,264
ME-0021	Grand Lake Shoreline Protection (CIAP + Tebo Point)	\$13,796	. ,	\$14,380	\$42,264
ME-0022	South White Lake Shoreline Protection	\$3,796	\$4,088	\$4,380	\$12,264
MR-0009	Delta Wide Crevasses	\$20,740	\$300	\$300	\$21,340
PO-0006 PO-0016	Fritchie Marsh Restoration Bayou Sauvage National Wildlife Refuge Hydrologic Restoration, Phase 1	\$11,680 \$27,596	\$5,840 \$27,596	\$5,840 \$27,596	\$23,360 \$82,788
PO-0018 PO-0018	Bayou Sauvage National Wildlife Refuge Hydrologic Restoration, Phase 1	\$25,141	\$27,596	\$27,596	\$75,422
PO-0018 PO-0022	Bayou Chevee Shoreline Protection	\$94,016		\$14,016	\$122,048
PO-0024	Hopedale Hydrologic Restoration	\$28,976		\$28,976	\$86,928
PO-0030	Lake Borgne Shoreline Protection	\$826,580	\$6,140	\$6,140	\$838,860
PO-0033	Goose Point/Point Platte Marsh Creation	\$5,840	\$5,840	\$5,840	\$17,520
PO-0075 PO-0104	Labranche East Marsh Creation Bayou Bonfouca Marsh Creation Project	\$0 \$298,791	\$4,088 \$21,043	\$4,088 \$25,548	\$8,176 \$345,382
PO-0104 PO-0133	Labranche Central Marsh Creation	\$298,791	\$4,088	\$25,546	\$345,362
TE-0022	Point au Fer Canal Plugs	\$5,840	\$5,840	\$5,840	\$17,520
TE-0023 (USACE)	West Belle Pass Headland Restoration	\$5,840	\$5,840	\$4,672	\$16,352
TE-0026	Lake Chapeau Sediment Input and Hydrologic Restoration, Point Au Fer Island	\$491,760		\$5,840	\$747,860
TE-0028	Brady Canal Hydrologic Rest.	\$33,680		\$33,680	\$101,040
TE-0034 TE-0037	Penchant Basin Natural Resources Plan Increment 1 New Cut Dune and Marsh Restoration	\$118,840 \$19,728		\$5,840 \$7,990	\$243,520 \$47,446
TE-0039	South Lake Decade Freshwater Introduction	\$3,504	\$4,672	\$4,672	\$12,848
TE-0043	GIWW Bank Restoration of Critical Areas in Terrebonne	\$4,672	\$4,672	\$4,672	\$14,016
TE-0044	North Lake Mechant Landbridge Restoration	\$88,210	\$88,210	\$5,490	\$181,910
TE-0045	Terrebonne Bay Shore Protection Demonstration	\$475,168	\$4,672	\$4,672	\$484,512
TE-0046 TE-0048	West Lake Boudreaux Shoreline Protection and Marsh Creation Raccoon Island Shoreline Protection/Marsh Creation	\$5,490		\$5,490 \$5,490	\$16,469
		xy 760 206	\$1,393,297	\$5,490	\$4,158,992

Table B-9. CWPPRA Projects with O&M Budget Project Expenditures^{1,2,3}

Project No.	Project Name	FY 2019	FY 2020	FY 2021	Project Total (FY 2019 - FY 2021)
TE-0052	West Belle Pass Barrier Headland Restoration	\$426,736	\$306,213	\$4,672	\$737,621
TE-0072	Lost Lake Marsh Creation and Hydrologic Restoration	\$83,760	\$83,760	\$83,760	\$251,280
TV-0004	Cote Blanche Hydrologic Restoration	\$21,680	\$21,680	\$21,680	\$65,040
TV-0012	Little Vermilion Bay Sediment Trapping	\$58,176	\$4,088	\$4,380	\$66,644
TV-0013-A	Oaks/Avery Canal Hydrologic Restoration, Increment 1	\$301,344	\$4,088	\$4,380	\$309,812
TV-0014	Marsh Island Hydrologic Restoration	\$3,796	\$4,088	\$4,380	\$12,264
TV-0015	Sediment Trapping at "The Jaws"	\$57,008	\$4,088	\$4,380	\$65,476
TV-0017	Lake Portage Land Bridge	\$3,796	\$4,088	\$4,380	\$12,264
TV-0018	Four Mile Canal Terracing and Sediment Trapping	\$37,008	\$4,088	\$4,380	\$45,476
TV-0021	East Marsh Island Marsh Creation	\$39,774	\$83,184	\$4,380	\$127,338
TV-0063	Coles Bayou Marsh Restoration	\$3,796	\$4,088	\$4,380	\$12,264
	TOTAL CWPPRA O&M Expenditures	\$21,702,050	\$8,893,047	\$6,505,411	\$37,100,508
	Federal CWPPRA O&M Expenditures	\$18,446,743	\$7,559,090	\$5,529,600	\$31,535,432
	State CWPPRA O&M Expenditures	\$3,255,308	\$1,333,957	\$975,812	\$5,565,076

Notes:

1. Table shows all approved CWPPRA projects. Demonstration and vegetative planting projects are not shown as they have no O&M budgets. Other projects without O&M budgets have "None" entered in the budget columns. Projects not scheduled to complete within a given year have "Not Constructed" entered in the budget column(s).

2. State share is based on CWPPRA cost share of 85% Federal/15% State except for PPL 5-6 projects, which have a 90% Federal/10% State cost share. 3. Projects that the USACE is responsible for O&M are indicated by (USACE) after the project number.

Table B-10. O&M Projected Expenditures for CWPPRA Projects without Federal Cost Share

Project ID	Project Name	FY 2019	FY 2020	FY 2021	Project Total (FY 2019 - FY 2021)
TE-0020	Isles Dernieres Restoration East Island	\$7,172	\$7,172	\$7,172	\$21,516
TE-0024	Isles Dernieres Restoration Trinity Island	\$7,172	\$7,172	\$7,172	\$21,516
TE-0025	East Timbalier Island Sediment Restoration, Phase 1	\$4,672	\$4,672	\$4,672	\$14,016
TE-0027	Whiskey Island Restoration	\$7,172	\$7,172	\$7,172	\$21,516
TE-0030	East Timbalier Island Sediment Restoration, Phase 2	\$4,672	\$4,672	\$4,672	\$14,016
TE-0040	Timbalier Island Dune and Marsh Restoration	\$7,172	\$7,172	\$7,172	\$21,516
	Total Expenditures	\$38,032	\$38,032	\$38,032	\$114,096

Table B-11. Projected Expenditures for O&M of WRDA Projects

Project ID	Project Name	FY 2019	FY 2020	FY 2021	Project Total (FY 2019 - FY 2021)
BA-0001	Davis Pond Freshwater Diversion	\$1,072,601	\$1,155,902	\$1,131,443	\$3,359,946
BS-0008	Caernarvon Freshwater Diversion	\$600,484	\$147,128	\$147,128	\$894,740
	Total Expenditures (GOMESA) ¹	\$1,673,085	\$1,303,030	\$1,278,571	\$4,254,686
Notes:					

1- O&M expenditures of WRDA projects are subject to a 75% federal/25% state cost share. For FY 2019-2021, CPRA is funding its 25% cost share of O&M costs with GOMESA funds, and will seek reimbursement from the USACE for the 75% federal match.

Table B-12. Projected Expenditures for O&M of Other Projects

Project ID	Project Name	FY 2019	FY 2020	FY 2021	Project Total (FY 2019 - FY 2021)
	otection Projects				
BA-0066	West Bank and Vicinity ¹	\$455,024	\$506,575	\$359,144	\$1,320,743
BA-0067	New Orleans and Vicinity ¹	\$455,398	\$529,168	\$550,420	\$1,534,986
LA-0154	FEMA LAMP ¹	\$132,147	\$109,717	\$0	\$241,864
LA-0206	HSDRRS Armoring ¹	\$349,523	\$379,479	\$412,805	\$1,141,807
LA-0253	Flood Protection Inspections ¹	\$263,257	\$276,270	\$292,583	\$832,110
LA-0269	CPRA Letter of No Objection	\$485,888	\$510,182	\$535,691	\$1,531,761
LA-0271	O&M Division State Wide Levee Board Meetings	\$172,490	\$181,115	\$190,170	\$543,775
PO-0057	SELA- Overall ¹	\$156,441	\$158,264	\$150,133	\$464,838
PO-0060	Permanent Canal Closures and Pump Stations ¹	\$2,609,325	\$1,114,791	\$51,018	\$3,775,134
PO-0063	Lake Pontchartrain and Vicinity ¹	\$553,245	\$617,707	\$379,232	\$1,550,184
PO-0096	Flood Protection Assistance ¹	\$2,371,472	\$1,377,546	\$2,683,923	\$6,432,941
	ation Projects	ψ2,071,472	ψ1,577,5 4 0	\$2,000,020	ψ0, 4 02,341
BA-0109	HSDRRS Mitigation - WBV	\$7,008	\$12,614	\$18,688	\$38,310
BA-0103 BA-0154	Previously Authorized Mitigation - WBV	\$7,008	\$12,614	\$18,688	\$38,310
BA-0158	New Orleans to Venice Mitigation - Plaquemines Non- Federal	\$7,008	\$7,008	\$7,008	\$21,024
BA-0158 BA-0159	New Orleans to Venice Mitigation - Federal	\$7,008	\$7,008	\$7,008	\$21,024
	MRGO Closure Structure	\$294,080	\$61,960	\$61,960	\$418,000
PO-0093	MRGO - Lake Borgne -Bayou Dupre Segment	\$8,184	\$8,184	\$8,184	\$24,552
PO-0094	MRGO - Lake Borgne -Bayou Bienvenue Segment	\$8,184	\$8,184	\$8.184	\$24,552
PO-0095	MRGO - Lake Borgne -Shell Beach Segment	\$8,184	\$8,184	\$8,184	\$24,552
PO-0121	HSDRRS Mitigation - LPV	\$39,343	\$39,343	\$39,343	\$118,030
PO-0145	LPV Task Force Guardian Mitigation - Bayou Sauvage	\$18,688	\$18,688	\$18,688	\$56,064
PO-0146	LPV Mitigation Project, Manchac WMA Marsh Creation	\$13,114	\$13,114	\$13,114	\$39,343
PO-0152	Lake Borgne and MRGO Shoreline Protection	\$8,184	\$8,184	\$8,184	\$24,552
State-Only P	rojects				
	Naomi Siphon	\$26,680	\$12,180	\$12,180	\$51,040
BA-0004	West Point a la Hache Siphon	\$26,680	\$12,180	\$12,180	\$51,040
BA-0005	Fort Livingston	\$90,740	\$90,740	\$27,892	\$209,372
CS-0002	Rycade Canal	\$82,008	\$0	\$0	\$82,008
LA-0273	Gulf Coast Joint Venture and Partnerships	\$8,576	\$8,576	\$8,576	\$25,728
ME-0001	Pecan Island Structure	\$13,796	\$14,088	\$14,380	\$42,264
PO-0001	Violet Siphon	\$325,680	\$25,680	\$25,680	\$377,040
PO-0036	Orleans Landbridge	\$7,308	\$7,308	\$7,308	\$21,924
PO-0072	Biloxi Marsh	\$41.208	\$40.274	\$40.274	\$121,755
PO-0142	Hydrologic Restoration of the Amite River Diversion Canal	\$13,114	\$13,114	\$13,114	\$39,343
PO-0148	Living Shoreline	\$52,521	\$56,673	\$56,673	\$165,867
TE-0001	Montegut Wetlands	\$5,840	\$5,840	\$5,840	\$17,520
TE-0003	Bayou LaCache Wetlands	\$108,760	\$108,760	\$108,760	\$326,280
TV-xx	Quintana Canal	\$2,034,795	\$14,088	\$14,380	\$2,063,263
TV-0013-B	Avery Canal	\$83,796	\$14,088	\$14,380	\$112,264
N/A	Maintenance Surveys	\$33,288	\$33,288	\$33,288	\$99,864
N/A	GPS Network (continued development and maintenance)	\$78,796	\$79,088	\$75,000	\$232,884
	Total Expenditures	\$11,463,790	\$6,501,865	\$6,292,258	\$24,257,913
	Surplus Expenditures	\$6,133,800	\$3,825,920	\$3,800,048	\$13,759,768
	Trust Fund Expenditures	\$5,329,990	\$2,675,945	\$2,492,210	\$10,498,145

Notes:

1- Expenditures funded with Surplus funds (see Table B-5).

Table B-13. Oil Spill Projected Expenditures¹

BA-0202 G BA-0203 S CS-0080 R PO-0180 L TE-0100 N TE-0139 B N/A N	rizon NRDA Mid-Barataria Sediment Diversion (Construction) Queen Bess Island Restoration Spanish Pass Increment Rabbit Island Restoration-Increment 1 IRDA Caillou Lake Headlands Ferrebonne Basin Ridge and Marsh Creation- Bayou Terrebonne Increment IRDA Replenish and Protect Living Coastal and	\$0 \$1,200,000 \$1,500,000 \$1,400,000 \$2,000,000 \$15,000,000	\$348,913,760 \$18,600,000 \$500,000 \$700,000 \$1,000,000	\$248,913,760 \$0 \$0 \$24,000,000	2021) \$597,827,520 \$19,800,000
BA-0202 G BA-0203 S CS-0080 R PO-0180 L TE-0100 N TE-0139 B N/A N	Queen Bess Island Restoration Barataria Basin Ridge and Marsh Restoration- Spanish Pass Increment Rabbit Island Restoration .ake Borgne Marsh Creation- Increment 1 IRDA Caillou Lake Headlands errebonne Basin Ridge and Marsh Creation- Bayou Terrebonne Increment	\$1,200,000 \$1,500,000 \$1,400,000 \$2,000,000	\$18,600,000 \$500,000 \$700,000	\$0 \$0	\$19,800,000
BA-0203 S CS-0080 R PO-0180 L TE-0100 N TE-0139 B N/A N	Barataria Basin Ridge and Marsh Restoration- Spanish Pass Increment Rabbit Island Restoration .ake Borgne Marsh Creation- Increment 1 IRDA Caillou Lake Headlands errebonne Basin Ridge and Marsh Creation- Bayou Terrebonne Increment	\$1,500,000 \$1,400,000 \$2,000,000	\$500,000 \$700,000	\$0	. , ,
BA-0203 S CS-0080 R PO-0180 L TE-0100 N TE-0139 B N/A N	Spanish Pass Increment Rabbit Island Restoration .ake Borgne Marsh Creation- Increment 1 IRDA Caillou Lake Headlands errebonne Basin Ridge and Marsh Creation- sayou Terrebonne Increment	\$1,400,000 \$2,000,000	\$700,000		¢0.000.000
CS-0080 R PO-0180 L TE-0100 N TE-0139 B N/A N	Abbit Island Restoration .ake Borgne Marsh Creation- Increment 1 IRDA Caillou Lake Headlands Ferrebonne Basin Ridge and Marsh Creation- Jayou Terrebonne Increment	\$1,400,000 \$2,000,000	\$700,000		\$2,000,000
PO-0180 L TE-0100 N TE-0139 B N/A N	ake Borgne Marsh Creation- Increment 1 IRDA Caillou Lake Headlands errebonne Basin Ridge and Marsh Creation- Jayou Terrebonne Increment	\$2,000,000		J24.000.000	\$26,100,000
TE-0100 N T TE-0139 B N/A N	IRDA Caillou Lake Headlands Ferrebonne Basin Ridge and Marsh Creation- Bayou Terrebonne Increment	\$15,000,000		\$20,500,000	\$23,500,000
TE-0139 B N/A M	errebonne Basin Ridge and Marsh Creation- Bayou Terrebonne Increment		\$0	\$0	\$15,000,000
N/A N	NRDA Replenish and Protect Living Coastal and	\$2,900,000	\$1,950,000	\$500,000	\$5,350,000
	Marine Resources	\$2,820,000	\$26,000,000	\$26,000,000	\$54,820,000
	IRDA Recreational Use 1	\$22,000,000	\$0	\$0	\$22,000,000
N/A N	IRDA Recreational Use 2	\$25,000,000	\$13,000,000	\$0 \$0	\$38,000,000
	IRDA Bird Islands	\$1,000,000	\$5,000,000	\$2,000,000	\$8,000,000
	IRDA Restoration Planning	\$2,555,433	\$2,346,016	\$2,062,575	\$6,964,024
	IRDA Nutrient Reduction	\$3.000.000	\$3,000,000	\$3,000,000	\$9,000,000
	Regionwide Trustee Implementation Group	\$1,000,000	\$1,000,000	\$1,000,000	\$3,000,000
N/A N	IRDA Adaptive Management	\$12,250,000	\$14,258,475	\$14,458,475	\$40,966,949
	RDA OM&M (See Table B-8)	\$471,378	\$264,896	\$354,752	\$1,091,026
Total Deepwate	er Horizon NRDA Expenditures	\$94,096,811	\$436,533,147	\$342,789,562	\$873,419,519
BA-0153 N	/lid-Barataria Sediment Diversion (E&D)	\$34,920,464	\$45,331,822	\$6,318,378	\$86,570,664
BS-0030 N	Aid-Breton Sediment Diversion	\$20,639,935	\$18,268,293	\$29,437,186	\$68,345,414
LA-0276 S	Sediment Diversion Management	\$3,756,507	\$4,303,893	\$2,212,874	\$10,273,274
TE-0110 lr	ncrease Atchafalaya Flow to Eastern Terrebonne	\$5,449,090	\$5,449,090	\$5,449,090	\$16,347,271
	errebonne Basin Barrier Island and Beach				
	Nourishment ²	\$1,500,000	\$50,000,000	\$0	\$51,500,000
	NFWF Adaptive Management NFWF OM&M (See Table B-8)	\$6,860,300	\$10,016,905	\$8,855,405	\$25,732,610
		\$353,360	\$351,024	\$291,024	\$995,408
Total NFWF Ex RESTORE Proj		\$73,479,656	\$133,721,027	\$52,563,957	\$259,764,641
Ń	Vest Grand Terre Beach Nourishment and Stabilization	\$2,700,000	\$3,000,000	\$20,000,000	\$25,700,000
MR-0168 L	owermost Mississippi River Management Program	\$3,000,000	\$3,000,000	\$2,700,000	\$8,700,000
	Calcasieu Ship Channel Salinity Control Measures /ississippi River Reintroduction into Maurepas	\$7,363,739	\$4,250,380	\$17,134,293	\$28,748,412
PO-0029 S	Swamp	\$5,000,000	\$5,000,000	\$28,700,000	\$38,700,000
PO-0163 G	Golden Triangle Marsh Creation	\$750,000	\$750,000	\$20,000,000	\$21,500,000
PO-0174 B	Biloxi Marsh Living Shoreline	\$900,000	\$700,000	\$10,400,000	\$12,000,000
TE-0113 H	Houma Navigation Canal Lock Complex	\$10,103,415	\$30,188,120	\$87,074,000	\$127,365,535
N/A R	RESTORE Adaptive Management	\$6,525,000	\$6,511,780	\$6,511,780	\$19,548,559
N/A R	RESTORE Bucket 2 Planning Grants	\$500,000	\$500,000	\$500,000	\$1,500,000
	Parish Matching Program- Projects ³	\$6,750,000	\$9,750,000	\$3,500,000	\$20,000,000
	Parish Matching Program- CPRA Costs	\$300,000	\$700,000	\$254,849	\$1,254,849
	RESTORE Center of Excellence	\$1,800,000	\$1,500,000	\$1,500,000	\$4,800,000
Total RESTORI	E Expenditures	\$45,692,154	\$65,850,280	\$198,274,922	\$309,817,355
Total Oil Spill E	Expenditures	\$213,268,620	\$636,104,453	\$593,628,441	\$1,443,001,515
	pill Expenditures	\$0	\$0	\$0	\$0
Surplus Oil Spi State Oil Spill B	ill Expenditures	\$0 \$213,268,620	\$0 \$636,104,453	\$0 \$593,628,441	\$0 \$1,443,001,515

Notes:

1- Red font denotes projected expenditures for which funding has not yet been procured.

2- Project will utilize funding initially approved for East Timbalier Island Restoration (TE-0118).
 3- Expenditures represent potential matching funds for project implementation to eligible parishes identified in 33 U.S.C. §1321(t)(1)(D)(II) provided that the project constitutes an eligible activity under 31 C.F.R. §§ 34.201 and 34.203 and meets the purposes identified in La. R.S. 49:214.5.4(G) & (I).

Table B-14. GOMESA Projected Expenditures

Project ID	Project Name	FY 2019	FY 2020	FY 2021	Project Total (FY 2019 - FY 2021)
	40 Arpent Canal Levee- Lockport Co. Canal to Butch				
N/A	Hill Station (NLLD)	\$100,000	\$5,450,000	\$0	. , ,
N/A	Hollywood Canal Closure Structure (NLLD)	\$72,500		\$1,427,500	\$1,500,000
N/A	Reach L (SLLD)	\$500,000	\$4,000,000	\$2,000,000	\$6,500,000
N/A	Little Bayou Bleu (SLLD)	\$400,000	\$0	\$0	\$400,000
N/A	Reach L Mitigation (SLLD)	\$200,000	\$0	\$1,000,000	\$1,200,000
N/A	Rosethorne Basin Phase 1 & 2 (LAILD)	\$7,000,000	\$4,000,000	\$0	\$11,000,000
N/A	Grand Isle Beach Stabilization (GIILD)	\$8,500,000	\$7,000,000	\$0	\$15,500,000
N/A	West Shore Lake Pontchartrain (PLD)	\$2,000,000	\$2,000,000	\$2,000,000	\$6,000,000
N/A	NF-06a.1 Drainage Canal Relocation ROW Acquisition (Plaquemines Parish)	\$6,000,000	\$0	\$0	\$6,000,000
N/A	Magnolia Ridge Levee Lift and Road (St. Charles Parish)	\$3,500,000		\$0	\$3,500,000
N/A	30% E&D- Phases 1-3 (St. James Parish)	\$500,000	\$500,000	\$0	\$1,000,000
N/A	Davis Pond Upper Barataria Risk Reduction (LBLD)	\$1,500,000	\$1,500,000	\$3,000,000	\$6,000,000
N/A	St. Tammany Ring Levee (St. Tammany Parish)	\$3,000,000	\$3,000,000	\$3,000,000	\$9,000,000
N/A	H&H Study (Vermilion Parish)	\$600,000		\$0	\$600,000
N/A	GOMESA CPRA Allocation	\$3,500,000	\$3,500,000	\$3,500,000	
N/A	GOMESA OM&M- Diversions	\$7,863,436	\$2,564,057	\$7,567,118	\$17,994,610
N/A	GOMESA Adaptive Management (See Table 4-3)	\$2,735,000	\$4,035,000	\$4,635,000	\$11,405,000
N/A	Future GOMESA Projects (TBD) ¹	\$0	\$70,500,000		÷,••••
Total Expe	enditures	\$47,970,936	\$108,049,057	\$72,129,618	\$228,149,611

Notes:

1- GOMESA funding in outlying years is contingent upon receipt of sufficient funding. Projects proposed to begin receiving funding in FY 2020-2021 include the following:

-Goose Bayou (Penn Levee (LAILD)- FY 2021 -Pumping Capacity Improvements Phase 1 (BLFWD)- FY 2020

-Bayou Chene Option 1 (SMLD)- FY 2020

-100-Year Levee Lift- NOV-NF-W-4, Oakville to LaReusitte and MRL 179 (Plaquemines Parish)- FY 2020 -PrB Levvee (Iberia Parish)- FY 2021

-Kellog Pump Station T-Wall (St. Charles Parish)- FY 2020

-Magnolia Ridge Levee Pipeline and T-Wall (St. Charles Parish)- FY 2021

-Levee Reach 1 (Vermilion Parish)- FY 2021

-Sunset Levee Upper Barataria Risk Reduction (LBLD)- FY 2020

Appendix C

Page intentionally left blank

Barrier Island Status Report

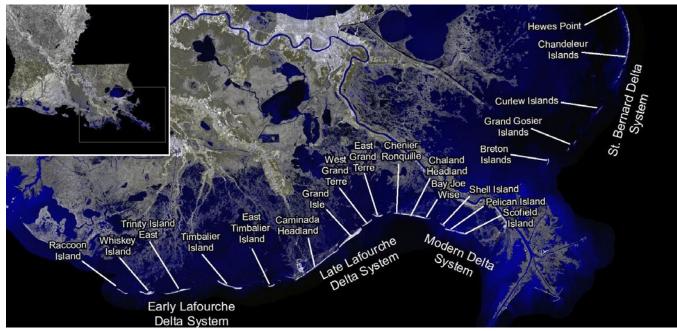
BARRIER ISLAND STATUS REPORT

Fiscal Year 2019 Annual Plan

In compliance with Act 297 of the 2006 Regular Legislative Session, the Coastal Protection and Restoration Authority (CPRA) provides this barrier island status report as part of the Annual Plan document, which will be submitted to each member of the Louisiana Legislature. The current Barrier Island Status report is available electronically at the CPRA website. Please visit <u>www.coastal.la.gov</u> to download and review the full report. A summary of the report is provided below.

Constructed Projects

The coastlines of the modern Mississippi River delta plain are bordered by numerous barrier islands from Raccoon Island in the west to Hewes Point in the northern Chandeleur Islands (Figure 1). These barrier islands could be grouped to represent fragmented remnants of distal extremities of several major delta lobes and headlands: to identify these barrier islands with their respective delta lobes they have been grouped from west to east as the Early Lafourche Delta System, Late Lafourche Delta System, Modern Delta System, and the St. Bernard Delta System. The back-barrier lagoons are connected to the Gulf of Mexico by approximately 25 tidal inlets which separate these barrier islands from each other and allow the exchange of diurnal tides.





The restoration of Louisiana's barrier islands and barrier island systems has been a priority for a number of restoration programs over the past several decades and 39 barrier island projects have been constructed to date (including 12 in the Early Lafourche Delta System, 16 in the Late Lafourche Delta System, 9 in the Modern Delta System, and 2 in the St. Bernard Delta System: see Table 1). Most of these constructed barrier island projects have been monitored, and their performance has been assessed to adaptively improve resilience and persistence of these projects and future barrier island projects.

With several major restoration projects in place, the post-restoration estimated Year of Disappearance (YOD) for several barrier island systems in Louisiana have been extended from years to decades. This increase in island longevity throughout the system is a direct benefit of the restoration projects. Further, with the increase in both frequency and intensity of major hurricanes over the past decade (and similar projections into the future), in the absence of the restoration and protection program, it is expected many of these islands would have disappeared much sooner than original projections.

Monitoring and Maintenance

Louisiana's barrier islands are part of a complex system controlled by many overlapping and interrelated processes. The four primary barrier island systems have been monitored and evaluated by recent efforts, such as the Barrier Island Comprehensive Monitoring (BICM) program, the monitoring of the Emergency Berms, and project specific efforts. These programs have provided information to CPRA regarding the current condition and stability of Louisiana's barrier islands. To minimize the acceleration of island disintegration that commonly occurs after a breach, a barrier island Breach Management Program is currently being developed to address both breach prevention and response to breaches when they occur. This program will considerably improve the state's ability to repair storm-induced damages and extend the life-expectancy and integrity of Louisiana's barrier shorelines. Finally, to ensure the efficient and effective use of limited sediment resources in Louisiana, a number of programs/projects, including Borrow Area Monitoring and Maintenance (BAMM) and the Louisiana Sand Resources Database (LASARD), have been initiated under the overarching umbrella of the Louisiana Sediment Management Plan (LASMP). In order to monitor the impact of loading of sand to build beach and dune and restore the barrier islands/headlands, a CIAP-funded Caminada Moreau Subsidence Study (CMSS) was undertaken.

A final report entitled "Louisiana Barrier Island Comprehensive Monitoring (BICM) Program Summary Report: Data and Analyses 2006 through 2010: U.S. Geological Survey Open-File Report 2013–1083" was published as a USGS open file and can be accessed online at http://cims.coastal.la.gov/DocLibrary/DocumentSearch.aspx?Root=0&Folder=0 (Kindinger et al 2013). The BICM program used both historical and newly acquired (2006 - 2010) data to assess and monitor changes in the aerial and subaqueous extent of islands, habitat types, sediment texture and geotechnical properties, environmental processes, and vegetation composition. BICM datasets included aerial still and video photography (multiple time series) for shoreline assessment, shoreline position, habitat mapping, and land loss from CIR aerial photography light detection and ranging (LiDAR) surveys for topographic elevations; single-beam and swath bathymetry; and sediment grab samples. The BICM program has begun a new data collection cycle in 2015 with plans to complete analysis and reporting in 2019.

Barrier Island Performance Assessment

Louisiana's barrier shoreline is one of the fastest eroding shorelines in the world. Due to the geologic setting and the predicted changes in sea level during coming decades, these shoreline habitats and the services they provide are some of the most vulnerable features of our coastal landscape. Barrier island stability is affected by a number of factors, including settlement, overwash, offshore loss of sediment, longshore transport, and island breaching. Each of these factors is discussed in the context of recent high-frequency data collection.

Shoreline erosion data from BICM indicate that most of Louisiana's shoreline is eroding faster than ever before with some short-term (1996 – 2005) erosion rates more than double the historic (1890s – 2005) averages. However, recent information from the post-BICM studies elucidates the benefits of recent restoration projects. The full report includes a presentation of the overall findings from BICM and detailed discussion of recent shoreline change rates by geomorphologic delta complex. Additionally, the BICM program is currently updating shoreline change rates for the entire coast thru 2012, with plans to develop 2015 data.

Minimized Design Template

The minimized design template is defined as a design template with minimal barrier island dimensions that restores the barrier shoreline's geomorphic form and ecologic function and retains this form and function after being subjected to the design storm events.

A minimized design template was previously developed for the Terrebonne Basin barrier shorelines extending from East Timbalier Island to Raccoon Island as part of the Louisiana Coastal Area program for the Terrebonne Basin Barrier Shoreline Restoration Project (TBBSR). Efforts related to modeling for 2017 Master Plan project evaluations have led to development of a minimal design template for the coast. Future efforts related to regional project evaluation and prioritizations can utilize this minimal design, allowing valid comparisons and prioritization areas along the coast using an un-biased approach. Table 2 in the full report presents the dimensions of the minimized restoration templates.

Future Plans

Louisiana has invested hundreds of millions of dollars over the past two decades restoring its barrier islands and shorelines and plans to continue to invest in rebuilding these features. Unlike the 2012 Coastal Master Plan, which called for restoration of specific barrier islands, the 2017 Coastal Master Plan recommends funding Louisiana's Barrier Island Program, which CPRA is currently developing. Rather than recommending specific barrier island and shoreline projects and assigning them to a certain implementation period, CPRA intends to restore the Terrebonne, Timbalier, and Barataria barrier islands and shorelines as part of a regular rebuilding program. In addition, CPRA plans to continue system-wide monitoring, exploration and management of compatible sediment via acquisition of geotechnical and geophysical data, and improving overall understanding of sediment management requirements to support the sediment needs and prioritization of the current 2017 Coastal Master Plan projects. This will allow monitoring and assessment of these critical features to drive project investment and for CPRA to be able to nimbly react when catastrophic events like future hurricanes impact these areas.

Table 1. List of Constructed, Funded for Construction, and Future Barrier Island Projects in Louisiana

Barrier Shoreline Restoration Projects	Funding	Constru
	Program	Dat
Early Lafourche Barrier System		
Constructed Projects		
1 Raccoon Island Repair (TE-0106)	Various	1994
2 Barrier Island Sand Retention (TE-0004b)	FEMA	1995
3 Raccoon Island Breakwaters (TE-0029)	CWPPRA	1997
4 Raccoon Island Shoreline Protection/ Marsh Creation (TE-0048)	CWPPRA	2007, 2
5 Whiskey Island Restoration (TE-0027)	CWPPRA	1999
6 Whiskey Island Back Barrier Marsh Creation (TE-0050)	CWPPRA	2009
7 Enhancement of Barrier Island and Salt Marsh Vegetation DEMO (TE-0053)	CWPPRA	2012
8 Isles Dernieres Restoration Trinity Island (TE-0024)	CWPPRA	1999
9 New Cut Dune and Marsh Restoration (TE-0037)	CWPPRA	2007
10 Isles Dernieres Restoration East Island (TE-0020)	CWPPRA	1999
11 BIMP 2009 Sand Fencing (LA-0246)	STATE	2009
12 Wine Island Revegetation Project	FEMA	1995
Funded for Construction		
NRDA Caillou Lake Headlands (TE-0100) (under construction)		
1 (includes Ship Shoal: Whiskey West Flank Restoration (TE-0047))	NRDA	2018
Future Projects		
None		
INOILE		~
	Funding	Construc
Barrier Shoreline Restoration Projects	Program	Date
Late Lafourche Barrier System		
Constructed Projects		
1 Barrier Island Sand Retention (TE-0004b)	FEMA	1995
2 Timbalier Island Planting Demonstration (TE-18)	CWPPRA	1996
3 Timbalier Island Dune and Marsh Creation (TE-40)	CWPPRA	2004
4 BIMP 2009 Sand Fencing (LA-0246)	STATE	2004
		2009
5 East Timbalier Island Sediment Restoration, Phase 1 (TE-25)	CWPPRA	
6 East Timbalier Island Sediment Restoration, Phase 2 (TE-30)	CWPPRA	2000
7 West Belle Pass Barrier Headland Restoration (TE-52)	CWPPRA	2012
	CIAP/	
8 Caminada Headland Beach and Dune Restoration (BA-45)	STATE	2015
9 Grand Isle Bay Side Breakwaters (BA-0187)	STATE	
10 Fifi Island Restoration (BA-0155)	CIAP	2015
11 Fifi Island Breakwater (BA-0168)	CIAP	2015
12 Grand Isle and Vicinity Hurricane Protection	WRDA	2010
13 Vegetative Planting of a Dredged Material Disposal Site on Grand Terre (BA-28)	CWPPRA	2010
14 Restoration on West Grand Terre Island at Fort Livingston (BA-0186)	NOAA	2003
15 East Grand Terre Island Restoration (BA-30)	CIAP	2010
16 Caminada Headland Beach and Dune Restoration, Increment 2 (BA-143)	NFWF	2016
	INT WIT	2010
Future Projects	NEWE	TDI
1 East Timbalier Island (TE-0118) (in design)	NFWF	TBI
2 West Grand Terre Beach Nourishment and Stabilization Project (BA-0197) (in design)	RESTORE	TBD
3 Caminada Back Barrier Marsh Creation (BA-0171) (in design)	CWPPRA	TBD
4 Caminada Back Barrier Marsh Creation Increment 2 (BA-0193) (in design)	CWPPRA	TBD
	Funding	Construc
Barrier Shoreline Restoration Projects	Program	Date
Modern Barrier System		
Constructed Projects		
Pass La Mer to Chaland Pass (BA-38, part 1)		
	CWDDDA	2005
	CWPPRA	2007
1 also known as "Chaland Headland"	STATE	2009
1 also known as "Chaland Headland" 2 BIMP 2009 Sand Fencing (LA-0246)		
1 also known as "Chaland Headland" 2 BIMP 2009 Sand Fencing (LA-0246) Pass Chaland to Grand Bayou Pass Barrier Shoreline Restoration (BA-35)		
1 also known as "Chaland Headland" 2 BIMP 2009 Sand Fencing (LA-0246) Pass Chaland to Grand Bayou Pass Barrier Shoreline Restoration (BA-35) 3 also known as "Bay Joe Wise"	CWPPRA	2009
1 also known as "Chaland Headland" 2 BIMP 2009 Sand Fencing (LA-0246) Pass Chaland to Grand Bayou Pass Barrier Shoreline Restoration (BA-35)	CWPPRA CWPPRA	
1 also known as "Chaland Headland" 2 BIMP 2009 Sand Fencing (LA-0246) Pass Chaland to Grand Bayou Pass Barrier Shoreline Restoration (BA-35) 3 also known as "Bay Joe Wise"		2012
1 also known as "Chaland Headland" 2 BIMP 2009 Sand Fencing (LA-0246) Pass Chaland to Grand Bayou Pass Barrier Shoreline Restoration (BA-35) 3 also known as "Bay Joe Wise" 4 Barataria Barrier Island Complex Project: Pelican Island and Pass (BA-38, part 2)	CWPPRA	2012
1 also known as "Chaland Headland" 2 BIMP 2009 Sand Fencing (LA-0246) Pass Chaland to Grand Bayou Pass Barrier Shoreline Restoration (BA-35) 3 also known as "Bay Joe Wise" 4 Barataria Barrier Island Complex Project: Pelican Island and Pass (BA-38, part 2)	CWPPRA Berm Funds	2012
also known as "Chaland Headland" BIMP 2009 Sand Fencing (LA-0246) Pass Chaland to Grand Bayou Pass Barrier Shoreline Restoration (BA-35) also known as "Bay Joe Wise" Barataria Barrier Island Complex Project: Pelican Island and Pass (BA-38, part 2) S Emergency Berms W8, W9, W10	CWPPRA Berm Funds CWPPRA/	2012 2010-20
1 also known as "Chaland Headland" 2 BIMP 2009 Sand Fencing (LA-0246) Pass Chaland to Grand Bayou Pass Barrier Shoreline Restoration (BA-35) 3 also known as "Bay Joe Wise" 4 Barataria Barrier Island Complex Project: Pelican Island and Pass (BA-38, part 2) 5 Emergency Berms W8, W9, W10 6 Riverine Sand Mining/Scofield Island Restoration (BA-40)	CWPPRA Berm Funds CWPPRA/ Berm Funds	2012 2010-20 2013
also known as "Chaland Headland" BIMP 2009 Sand Fencing (LA-0246) Pass Chaland to Grand Bayou Pass Barrier Shoreline Restoration (BA-35) also known as "Bay Joe Wise" Bartaria Barrier Island Complex Project: Pelican Island and Pass (BA-38, part 2) Emergency Berms W8, W9, W10 Riverine Sand Mining/Scofield Island Restoration (BA-40) Shell Island Restoration East Berm (BA-110)	CWPPRA Berm Funds CWPPRA/ Berm Funds Berm Funds	2012 2010-20 2013 2013
also known as "Chaland Headland" BIMP 2009 Sand Fencing (LA-0246) Pass Chaland to Grand Bayou Pass Barrier Shoreline Restoration (BA-35) also known as "Bay Joe Wise" Barataria Barrier Island Complex Project: Pelican Island and Pass (BA-38, part 2) Emergency Berms W8, W9, W10 Riverine Sand Mining/Scofield Island Restoration (BA-40) 7 Shell Island Restoration East Berm (BA-110) 8 Chenier Ronquile Barrier Island Restoration (BA-76)	CWPPRA Berm Funds CWPPRA/ Berm Funds Berm Funds NRDA	2012 2010-20 2013 2013 2013
also known as "Chaland Headland" BIMP 2009 Sand Fencing (LA-0246) Pass Chaland to Grand Bayou Pass Barrier Shoreline Restoration (BA-35) also known as "Bay Joe Wise" Bartaria Barrier Island Complex Project: Pelican Island and Pass (BA-38, part 2) Emergency Berms W8, W9, W10 Riverine Sand Mining/Scofield Island Restoration (BA-40) Shell Island Restoration East Berm (BA-110)	CWPPRA Berm Funds CWPPRA/ Berm Funds Berm Funds	2012 2010-20 2013 2013 2013
also known as "Chaland Headland" BIMP 2009 Sand Fencing (LA-0246) Pass Chaland to Grand Bayou Pass Barrier Shoreline Restoration (BA-35) also known as "Bay Joe Wise" Barataria Barrier Island Complex Project: Pelican Island and Pass (BA-38, part 2) Emergency Berms W8, W9, W10 Riverine Sand Mining/Scofield Island Restoration (BA-40) 7 Shell Island Restoration East Berm (BA-110) 8 Chenier Ronquile Barrier Island Restoration (BA-76)	CWPPRA Berm Funds CWPPRA/ Berm Funds Berm Funds NRDA	2012 2010-20 2013 2013 2013
also known as "Chaland Headland" BIMP 2009 Sand Fencing (LA-0246) Pass Chaland to Grand Bayou Pass Barrier Shoreline Restoration (BA-35) also known as "Bay Joe Wise" Barataria Barrier Island Complex Project: Pelican Island and Pass (BA-38, part 2) Emergency Berms W8, W9, W10 Riverine Sand Mining/Scofield Island Restoration (BA-40) Shell Island Restoration East Berm (BA-110) S Chenier Ronquile Barrier Island Restoration (BA-76) Shell Island Restoration West NRDA (BA-111)	CWPPRA Berm Funds CWPPRA/ Berm Funds Berm Funds NRDA	2012 2010-20 2013 2013 2013
1 also known as "Chaland Headland" 2 BIMP 2009 Sand Fencing (LA-0246) Pass Chaland to Grand Bayou Pass Barrier Shoreline Restoration (BA-35) 3 also known as "Bay Joe Wise" 4 Barataria Barrier Island Complex Project: Pelican Island and Pass (BA-38, part 2) 5 Emergency Berms W8, W9, W10 6 Riverine Sand Mining/Scofield Island Restoration (BA-40) 7 Shell Island Restoration East Berm (BA-110) 8 Chenier Ronquile Barrier Island Restoration (BA-76) 9 Shell Island Restoration West NRDA (BA-111) Funded for Construction None	CWPPRA Berm Funds CWPPRA/ Berm Funds Berm Funds NRDA	2012 2010-20 2013 2013 2013
1 also known as "Chaland Headland" 2 BIM P 2009 Sand Fencing (LA-0246) Pass Chaland to Grand Bayou Pass Barrier Shoreline Restoration (BA-35) 3 also known as "Bay Joe Wise" 4 Barataria Barrier Island Complex Project: Pelican Island and Pass (BA-38, part 2) 5 Emergency Berms W8, W9, W10 6 Riverine Sand Mining/Scofield Island Restoration (BA-40) 7 Shell Island Restoration East Berm (BA-110) 8 Chenier Ronquile Barrier Island Restoration (BA-76) 9 Shell Island Restoration West NRDA (BA-111) Funded for Construction None Future Projects Future Projects	CWPPRA Berm Funds CWPPRA/ Berm Funds Berm Funds NRDA	2012 2010-20 2013 2013 2013
1 also known as "Chaland Headland" 2 BIMP 2009 Sand Fencing (LA-0246) Pass Chaland to Grand Bayou Pass Barrier Shoreline Restoration (BA-35) 3 also known as "Bay Joe Wise" 4 Barataria Barrier Island Complex Project: Pelican Island and Pass (BA-38, part 2) 5 Emergency Berms W8, W9, W10 6 Riverine Sand Mining/Scofield Island Restoration (BA-40) 7 Shell Island Restoration East Berm (BA-110) 8 Chenier Ronquile Barrier Island Restoration (BA-76) 9 Shell Island Restoration West NRDA (BA-111) Funded for Construction None	CWPPRA Berm Funds CWPPRA/ Berm Funds NRDA NRDA	2012 2010-20 2013 2013 2017 2017
also known as "Chaland Headland" BIMP 2009 Sand Fencing (LA-0246) Pass Chaland to Grand Bayou Pass Barrier Shoreline Restoration (BA-35) also known as "Bay Joe Wise" Barataria Barrier Island Complex Project: Pelican Island and Pass (BA-38, part 2) Emergency Berms W8, W9, W10 Reverine Sand Mining/Scofield Island Restoration (BA-40) T Shell Island Restoration East Berm (BA-110) S Chenier Ronquile Barrier Island Restoration (BA-76) Shell Island Restoration West NRDA (BA-111) Funded for Construction None None	CWPPRA Berm Funds CWPPRA/ Berm Funds Berm Funds NRDA NRDA Funding	2012 2010-20 2013 2013 2017 2017 2017
1 also known as "Chaland Headland" 2 BIMP 2009 Sand Fencing (LA-0246) Pass Chaland to Grand Bayou Pass Barrier Shoreline Restoration (BA-35) 3 also known as "Bay Joe Wise" 4 Barataria Barrier Island Complex Project: Pelican Island and Pass (BA-38, part 2) 5 Emergency Berms W8, W9, W10 6 Riverine Sand Mining/Scofield Island Restoration (BA-40) 7 Shell Island Restoration East Berm (BA-110) 8 Chenier Ronquile Barrier Island Restoration (BA-76) 9 Shell Island Restoration West NRDA (BA-111) <i>Funded for Construction</i> None Future Projects None Barrier Shoreline Restoration Projects Station Projects	CWPPRA Berm Funds CWPPRA/ Berm Funds NRDA NRDA	2012 2010-20 2013 2013 2017 2017 2017
also known as "Chaland Headland" BIMP 2009 Sand Fencing (LA-0246) Pass Chaland to Grand Bayou Pass Barrier Shoreline Restoration (BA-35) also known as "Bay Joe Wise" Barataria Barrier Island Complex Project: Pelican Island and Pass (BA-38, part 2) Emergency Berms W8, W9, W10 Reverine Sand Mining/Scofield Island Restoration (BA-40) T Shell Island Restoration East Berm (BA-110) S Chenier Ronquile Barrier Island Restoration (BA-76) Shell Island Restoration West NRDA (BA-111) Funded for Construction None None	CWPPRA Berm Funds CWPPRA/ Berm Funds Berm Funds NRDA NRDA Funding	2012 2010-20 2013 2013 2017 2017 2017
1 also known as "Chaland Headland" 2 BIMP 2009 Sand Fencing (LA-0246) Pass Chaland to Grand Bayou Pass Barrier Shoreline Restoration (BA-35) 3 also known as "Bay Joe Wise" 4 Barataria Barrier Island Complex Project: Pelican Island and Pass (BA-38, part 2) 5 Emergency Berms W8, W9, W10 6 Riverine Sand Mining/Scofield Island Restoration (BA-40) 7 Shell Island Restoration East Berm (BA-110) 8 Chenier Ronquile Barrier Island Restoration (BA-76) 9 Shell Island Restoration West NRDA (BA-111) <i>Funded for Construction</i> None Future Projects None Barrier Shoreline Restoration Projects Station Projects	CWPPRA Berm Funds CWPPRA/ Berm Funds Berm Funds NRDA NRDA Funding	2012 2010-20 2013 2013 2017 2017 2017
1 also known as "Chaland Headland" 2 BIM P 2009 Sand Fencing (LA-0246) Pass Chaland to Grand Bayou Pass Barrier Shoreline Restoration (BA-35) 3 3 also known as "Bay Joe Wise" 4 Barataria Barrier Island Complex Project: Pelican Island and Pass (BA-38, part 2) 5 Emergency Berms W8, W9, W10 6 Riverine Sand Mining/Scofield Island Restoration (BA-40) 7 Shell Island Restoration East Berm (BA-110) 8 Chenier Ronquile Barrier Island Restoration (BA-76) 9 Shell Island Restoration West NRDA (BA-111) Funded for Construction None Future Projects None Barrier Shoreline Restoration Projects St. Bernard Delta System Constructed Projects St.	CWPPRA Berm Funds CWPPRA/ Berm Funds Berm Funds NRDA NRDA Funding Program	2012 2010-20 2013 2013 2017 2017 2017 Construction
1 also known as "Chaland Headland" 2 BIM P 2009 Sand Fencing (LA-0246) Pass Chaland to Grand Bayou Pass Barrier Shoreline Restoration (BA-35) 3 3 also known as "Bay Joe Wise" 4 Barataria Barrier Island Complex Project: Pelican Island and Pass (BA-38, part 2) 5 Emergency Berms W8, W9, W10 6 Riverine Sand Mining/Scofield Island Restoration (BA-40) 7 Shell Island Restoration East Berm (BA-110) 8 Chenier Ronquile Barrier Island Restoration (BA-76) 9 Shell Island Restoration West NRDA (BA-111) Funded for Construction None Future Projects None Barrier Shoreline Restoration Projects St. Bernard Delta System Constructed Projects 1 1 Chandeleur Islands M arsh Restoration (PO-27)	CWPPRA Berm Funds CWPPRA/ Berm Funds Berm Funds NRDA NRDA NRDA Funding Program	2012 2010-20 2013 2017 2017 2017 2017 2017 2017 2017 2017
1 also known as "Chaland Headland" 2 BIMP 2009 Sand Fencing (LA-0246) Pass Chaland to Grand Bayou Pass Barrier Shoreline Restoration (BA-35) 3 also known as "Bay Joe Wise" 4 Barataria Barrier Island Complex Project: Pelican Island and Pass (BA-38, part 2) 5 Emergency Berms W8, W9, W10 6 Riverine Sand Mining/Scofield Island Restoration (BA-40) 7 Shell Island Restoration East Berm (BA-110) 8 Chenier Ronquile Barrier Island Restoration (BA-76) 9 Shell Island Restoration West NRDA (BA-111) <i>Fluture Projects</i> None Barrier Shoreline Restoration Projects St. Bernard Delta System Constructed Projects 1 Chandeleur Islands M arsh Restoration (PO-27) 2 Emergency Berms E4	CWPPRA Berm Funds CWPPRA/ Berm Funds Berm Funds NRDA NRDA Funding Program	2012 2010-20 2013 2017 2017 2017 2017 2017 2017 2017 2017
1 also known as "Chaland Headland" 2 BIMP 2009 Sand Fencing (LA-0246) Pass Chaland to Grand Bayou Pass Barrier Shoreline Restoration (BA-35) 3 also known as "Bay Joe Wise" 4 Barataria Barrier Island Complex Project: Pelican Island and Pass (BA-38, part 2) 5 Emergency Berms W8, W9, W10 6 Riverine Sand Mining/Scofield Island Restoration (BA-40) 7 Shell Island Restoration East Berm (BA-110) 8 Chenier Ronquile Barrier Island Restoration (BA-76) 9 Shell Island Restoration West NRDA (BA-111) <i>Funded for Construction</i> None Future Projects None 8 Remard Delta System Constructed Projects 1 1 Chandeleur Islands Marsh Restoration (PO-27) 2 Emergency Berms E4 Funded for Construction State Part Part Part Part Part Part Part Part	CWPPRA Berm Funds CWPPRA/ Berm Funds Berm Funds NRDA NRDA NRDA Funding Program	2012 2010-20 2013 2017 2017 2017 2017 2017 2017 2017 2017
1 also known as "Chaland Headland" 2 BIM P 2009 Sand Fencing (LA-0246) Pass Chaland to Grand Bayou Pass Barrier Shoreline Restoration (BA-35) 3 3 also known as "Bay Joe Wise" 4 Barataria Barrier Island Complex Project: Pelican Island and Pass (BA-38, part 2) 5 Emergency Berms W8, W9, W10 6 Riverine Sand Mining/Scofield Island Restoration (BA-40) 7 Shell Island Restoration East Berm (BA-110) 8 Chenier Ronquile Barrier Island Restoration (BA-76) 9 Shell Island Restoration West NRDA (BA-111) Funded for Construction None Future Projects None Barrier Shoreline Restoration Projects St. Bernard Delta System Constructed Projects I Chandeleur Islands Marsh Restoration (PO-27) 2 Emergency Berns E4 Funded for Construction None	CWPPRA Berm Funds CWPPRA/ Berm Funds Berm Funds NRDA NRDA NRDA Funding Program	2012 2010-20 2013 2017 2017 2017 2017 Construc Date 2001
1 also known as "Chaland Headland" 2 BIM P 2009 Sand Fencing (LA-0246) Pass Chaland to Grand Bayou Pass Barrier Shoreline Restoration (BA-35) 3 3 also known as "Bay Joe Wise" 4 Barataria Barrier Island Complex Project: Pelican Island and Pass (BA-38, part 2) 5 Emergency Berms W8, W9, W10 6 Riverine Sand Mining/Scofield Island Restoration (BA-40) 7 Shell Island Restoration East Berm (BA-110) 8 Chenier Ronquile Barrier Island Restoration (BA-76) 9 Shell Island Restoration West NRDA (BA-111) Funded for Construction None Future Projects None Barrier Shoreline Restoration Projects St. Bernard Delta System Constructed Projects I 1 Chandeleur Islands Marsh Restoration (PO-27) 2 Emergency Berns E4 Funded for Construction None Funded for Construction None Funded for Construction None Funded for Construction Funded for Construction None Funded for Construction Funded For Construction None Future Projects St. <	CWPPRA Berm Funds CWPPRA/ Berm Funds NRDA NRDA NRDA Funding Program CWPPRA Berm Funds	2009 2012 2010-20 2013 2013 2017 2017 2017 Construc Date 2001 2010
1 also known as "Chaland Headland" 2 BIM P 2009 Sand Fencing (LA-0246) Pass Chaland to Grand Bayou Pass Barrier Shoreline Restoration (BA-35) 3 3 also known as "Bay Joe Wise" 4 Barataria Barrier Island Complex Project: Pelican Island and Pass (BA-38, part 2) 5 Emergency Berms W8, W9, W10 6 Riverine Sand Mining/Scofield Island Restoration (BA-40) 7 Shell Island Restoration East Berm (BA-110) 8 Chenier Ronquile Barrier Island Restoration (BA-76) 9 Shell Island Restoration West NRDA (BA-111) Funded for Construction None Future Projects None Barrier Shoreline Restoration Projects St. Bernard Delta System Constructed Projects I Chandeleur Islands Marsh Restoration (PO-27) 2 Emergency Berns E4 Funded for Construction None	CWPPRA Berm Funds CWPPRA/ Berm Funds Berm Funds NRDA NRDA NRDA Funding Program	2012 2010-20 2013 2017 2017 2017 2017 2017 2017 2017 2017

Appendix D

Page intentionally left blank

Caernarvon & Davis Pond Operational Plans for 2018

Available Online (<u>http://coastal.la.gov/diversion-operations/</u>)

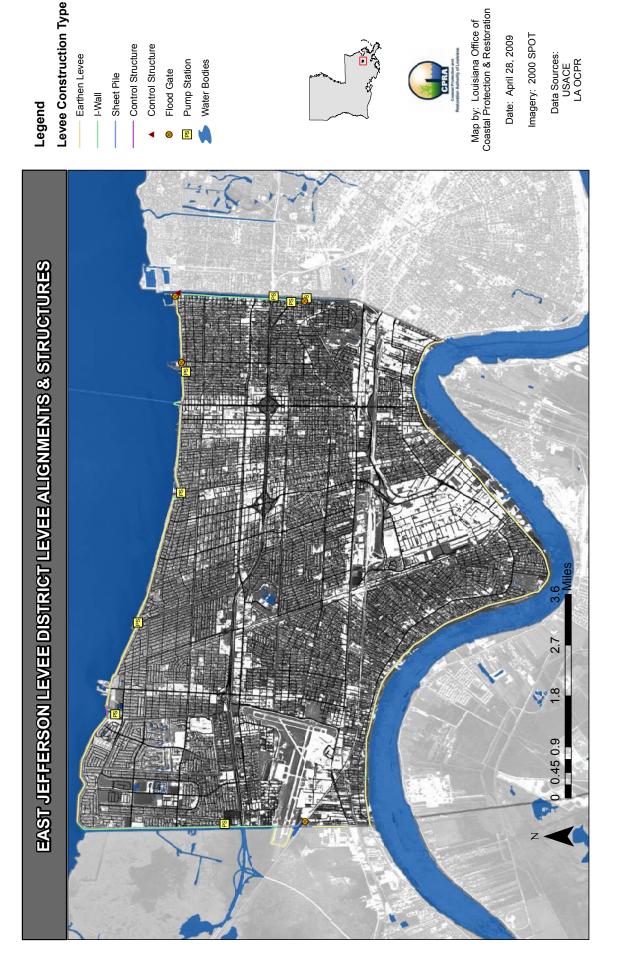
Appendix E Projects

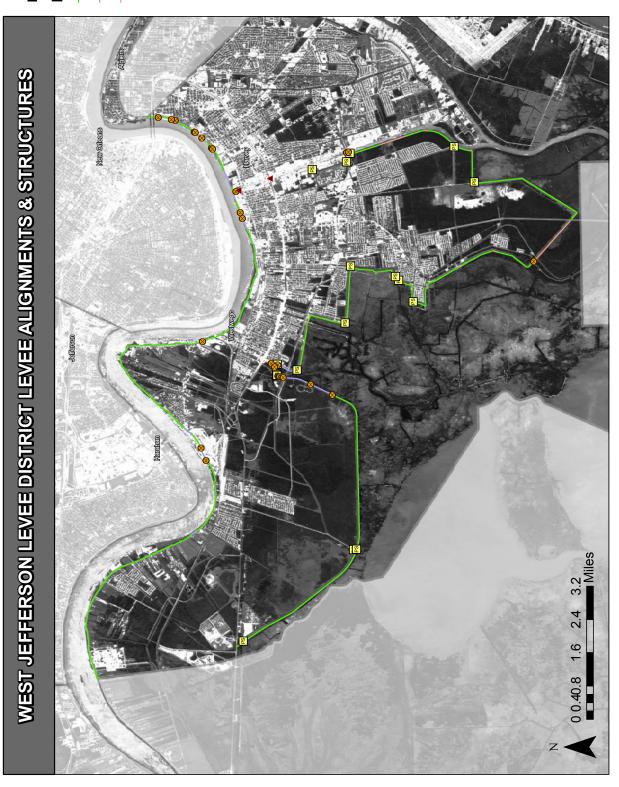
Projects

Page intentionally left blank

Inventory of Non-State

A. Federal Protection





Legend Levee construction types Levee construction types = Earthen Levee ⊢ Hwall - Hwall - Hwall - Houd Structure E Flood Gate Pump Station Mater Bodies



Map by: Louisiana Office of Coastal Protection & Restoration Date: April 28, 2009



Imagery: 2000 SPOI Data Sources: USACE LA OCPR



- Control Structure Control Struture

I-Wall

Pump Station

Water Bodies

Legend

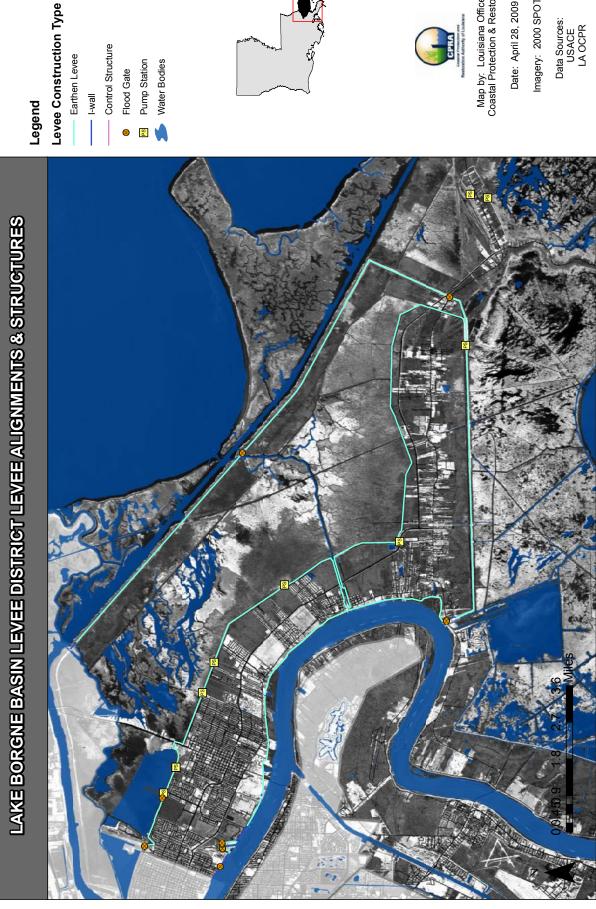


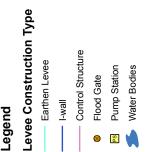
Date: April 28, 2009

CPRA

Imagery: 2000 SPOT

Data Sources: USACE LA OCPR





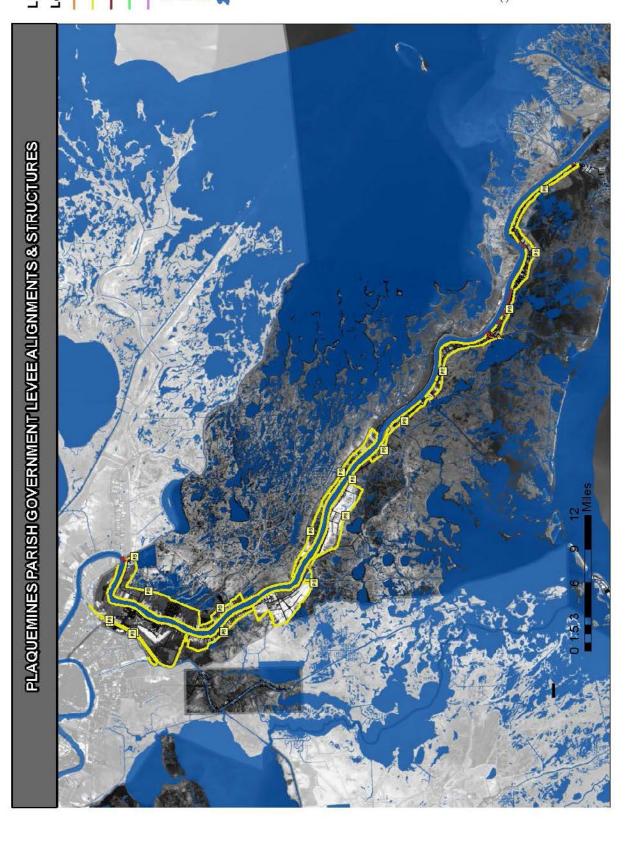


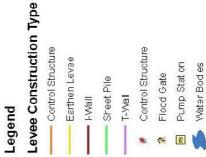


Map by: Louisiana Office of Coastal Protection & Restorati

Imagery: 2000 SPOT Data Sources: USACE LA OCPR





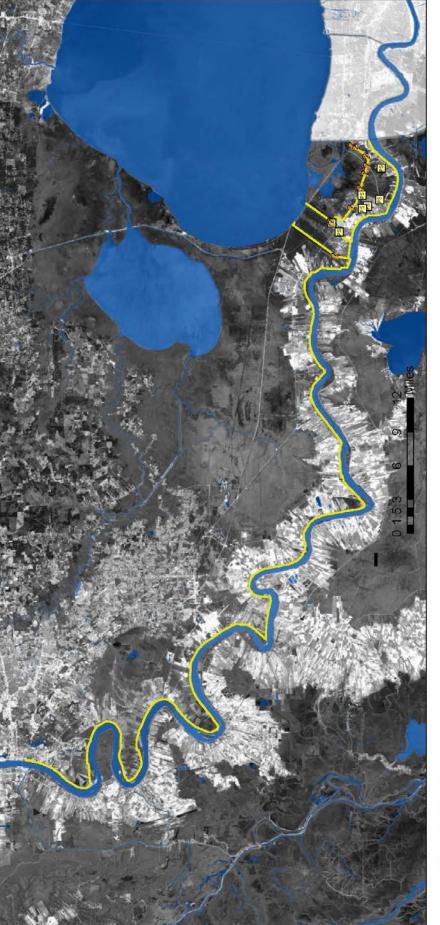






Nap by: Louisiar a Off ce of Coastal Protection & Restoration Date: April 28, 2009 Imagery: 2003 SPO[–]

Data Sources: USACE LA OCPR PONTCHARTRAIN LEVEE DISTRICT LEVEE ALIGNMENTS & STRUCTURES



Map by: Louisiana Office of Coastal Protection & Restoration Imagery: 2000 SPOT Date: April 28, 2009

🛛 🍐 R Legend Levee Construction Type ----- I-Wall Earthen Levee Control Structu









Levee construction typ Earthen Lev Legend

Pump Station Water Bodies Control Struct Flood Gate • PS \otimes

Sheet Pile

l-Wall

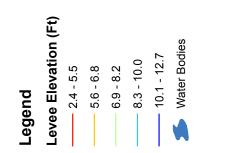


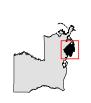
Map by: Louisiana Office of Coastal Protection & Restor Date: April 28, 2009



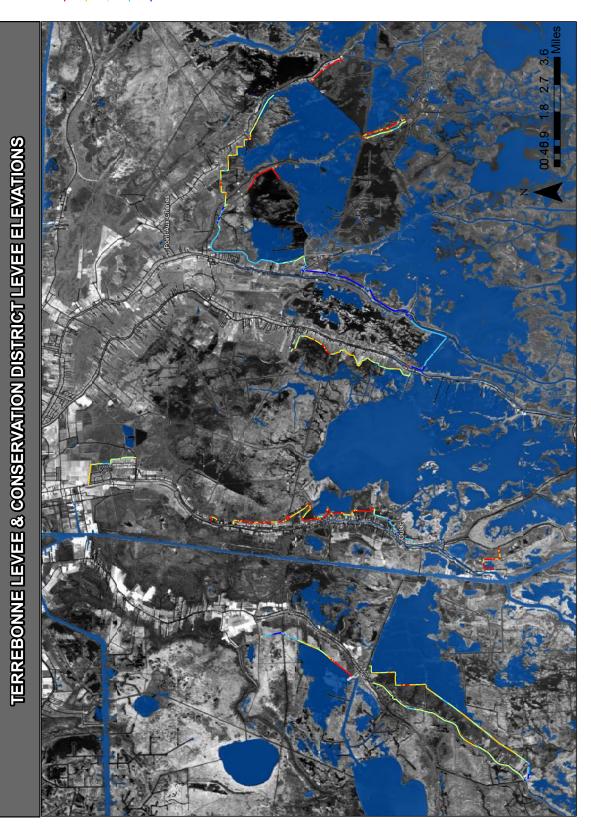
Imagery: 2000 SPOT Data Sourc USACE LA OCPR







Map by: Louisiana Office of Coastal Protection & Restoration Date: April 28, 2009 Imagery: 2000 SPOT Data Sources: USACE LA OCPR



Page intentionally left blank

Appendix E Projects

Page intentionally left blank

Inventory of Non-State

B. Projects and Project Concepts in Coastal Parish Master Plans

Planning Unit	За	3a	3a	3a	3a	3а	3a	3а	3a	3a	3a	3a	За	g	За	3a 3	за	3a	3a	3a	3а	3a	3а
Project Summary	Description not provided.	Description not provided.	Description not provided.	Description not provided.	Description not provided.	Description not provided.	Dredging Bayou Terrebonne will result in an increase in the amount of freshwater available to eastern Terrebonne Parish marshes.	Description not provided.	Dredging Company Canal between the GIWW and Bayou Terrebonne will result in an increase in the amount of freshwater available for eastern Terrebonne Parish marsh sustainability.	Description not provided.	Storm water drainage will be used to introduce freshwater to an area of marsh west of Bayou Terrebonne currently experiencing sattwater intrusion and a hich rate of subsidence.	Description not provided.	Through the use of an existing drainage ditch, removal of an earthen plug between the Montegut and Point aux Chenes drainage systems, construction of 3 small pump stations, and construction of a screw gate water control device near the removed plug location, increased volumes of freshwater can be made available to the marshes of Montegut and Point aux Chenes within the wildlife Management Areas. Over 9,000 acres of brackish and intermediate marsh will be benefitted.	Proposed project components include installing three control structures along the rim of the lake and enlarging Lapeyrouse Canal to allow the controlled diversion of the Atchafalaya River water, nutrients, and sediments south rim project area matshes. Outfall management structures are planned in the marsh interior to provide better distribution of river water. In addition, approximately 1.6 miles of foreshore rock dyke is planned to protect the critical areas of the south lake shoreline from breaching.	This freshwater introduction project will incorporate wastewater treatment effluent and freshwater from the GIWW by way of St. Louis Canal to Terreborne Marshes north of Lake Bourdeaux. Nutrients added to the system will enhance and promote plant growth and the sediment introduced will promote accretion to an area at risk for further detending.	This pump station project is the largest among those considered at 1350 cfs. Utilizing stormwater drainage from the Houma area, freshwater will be introduced to the marshes north of Lake Boudreaux in an area currently impacted by sattwater intrusion and subsidence. This project works in conjunction with Ashland Freshwater introducion and Wetand Assimilation and subsidence.	Installation of a water control structure between GIWW and Grand Bayou and dredging of Grand Bayou will be added in order to increase the amount of water available to this region of Terrebonne Parish. Increased sheet flow of freshwater and nutrients will assist in vegetation enhancement and accretion in an area of marsh that is rapidly deteriorating.	Description not provided.	Sathwater intrusion and hydrologic isolation have led to rapid deterioration of marsh within the marshes located adjacent to Falgout Canal, between Bayou Dularge and the Houma Navigation Canal. This project will allow for re- establishment of Atchafalaya River influence.	Description not provided.	Pump station D19 will divert approximately 200 cfs of freshwater east of Bayou Dularge into an area of marsh currently experiencing satiwater intrusion and a high rate of subsidence.	Pump station D18 will be used to introduce approximately 200 cfs of freshwater to the marshes north of Falgout Canal. Marshes in this area are at risk of further deterioration due to sattwater intrusion.	Description not provided.
SIED CARD	Not provided	Not provided	Not provided	Not provided	Not provided	Not provided	\$5,000,000 - \$20,000,000	Not provided	\$5,000,000 - \$20,000,000	Not provided	\$500,000	Not provided	\$2,000,000 - \$5,000,000	\$5,800,000	\$5,000,000	\$500,000	\$5,000,000 - \$20,000,000	Not provided	\$10,000,000	Not provided	\$500,000	\$500,000	Not provided
1918 1918	Ter.	Ter.	Ter.	Ter.	Ter.	Ter.	Ter.	Ter.	Ter.	Ter.	Ter.	Ter.	Ter.	Ter.	Ter.	Ter.	Ter.	Ter.	Ter.	Ter.	Ter.	Ter.	Ter.
CHIEC BEIGH	53	51	51	51	51	51	53	51	53	53	53	53	53	51	53	53	53	51	51	53	51	51	53
**************************************	20	20	20	20	20	20	20	20	20	20	20	20	50	20	20	20	50	20	20	20	20	20	20
Take T	MC	MC	MC	MC	MC	HR	НК	H	НК	НК	ЧH	러	FD	HR, SP	WA	НК	НК	FD	HR	FD	HR	НК	H
9449 1390 c	Sediment Introductions at South Shore Sister Lake	Marsh Creation North Stump Canal	Marsh Creation School Board Property South of Swing Bayou	Marsh Creation North-East of Toilet Bowl Canal	Marsh Creation North East of Bayou Penchant	Brandy Canal Hydrological Restoration Project	Dredge Bayou Terrebonne from Company Canal to Humble Canal	Dredge Minors Canal (GIWW to Lake Decade)	Dredge Company Canal to Convey Freshwater Flow to Terrebonne Marshes	Connect St. Louis Canal to Petit Caillou	Large Pump Station at Bayou Terrebonne	Pump Station at Bayou Petit Caillou for Freshwater Diversion to Ward 7	Bayou Terrebonne Freshwater Diversion Project	South Lake Decade Freshwater Enhancement and Shoreline Protection	Ashland Freshwater Introduction and Wetland Assimilation Project	Woodlawn Ranch Road	Reconnect Grand Bayou to GIWW	Freshwater Introduction via Blue Hammock Bayou	Falgout Canal Freshwater Enhancement (Phase I)	Freshwater Diversion using the Bayou Terrebonne Flood Gate	Lower Bayou Dularge Pump Station	Upper Bayou Dularge	Mayfield
TRULIN CORCE IROD	FD 37	FD 21	FD 22	FD 23	FD 24	FD 70	FD 57	FD 58	FD 62	FD 59	FD 65	FD 66	FD 79	FD 68	FD 71	FD 77	FD 85	FD 33	FD 67	FD 80	FD 72	FD 73	FD 74
петодгат	∀/N	A\N	A\N	∀/N	∀/N	A\N	A\N	A\N	A\N	∀/N	A\N	∀/N	A\N	A\N	∀/N	∀/N	A\N	∀/N	A\N	A\N	A\N	A\N	∀/N

Planning Unit	-	۲	-	-	-	1	+	٢	-	-	-	-	٢	1	٢	-	٢	-	٢	-	-	1	-	-	1	1	1	٢	1	7	N	7
Project Summary	Storm water drainage from the northwest corner of Jefferson Parish (Kenner, LA area) now enters the Parish Line Caral and Mows north, directly into Lake Pontchartrain. The proposed project would include the construction of a water control structure to divert storm water drainage into the LaBranche Wetlands for hydrologic restoration. The storm water would be elverted at the northernmost feasible location to maximize the wetland area benefitted and the level of water quality enhancement.	Breton Sound Fringe Marsh Barriers.	Baptiste Collette and Surrounding Marshes.	American/California bay/Bohemia Diversion.	Bayou Lamoque Diversion.	Caernarvon Diversion.	Fort St. Philip Diversion.	Grand Bay Diversion.	White's Ditch Diversion.	Breton Sound Land Bridge.	Baptiste Collette to Fort St. Phillip Ridge Reforestation.	Back Levee Canal-Bohemia to Whitle's Ditch Ridge Reforestation.	Unnamed Ridges South of Caernarvon Ridge Reforestation.	Unnamed Ridges South of Caernarvon Ridge Reforestation.	Fort St. Phillip to Ostrica Lock Ridge Reforestation.	Ostrica Lock to Bayou Lamoque Ridge Reforestation.	River Aux Chenes Ridge Reforestation.	Breton Sound Fringe Marsh.	Violet Diversion.	Lake Borgne surge breaker/reef.	Marsh Creation-Bayou Terre aux Boeufs to Bayou la Loutre Land Bridge.	Biloxi Marsh Creation.	Central Wetlands Marsh Creation.	MRGO/Lake Borgne Landbridge Marsh Creation.	Orleans Landbridge Marsh Creation.	Billoxi Marsh Oyster Reefs/Shoreline Protection.	Lake Borgne Shoreline Protection-MRGO Land Bridge.	Orleans Landbridge shoreline protection.	Develop Oyster reefs as shoreline barrier-Biloxi Marsh.	This project would supplement a sediment delivery project now being developed by extending the sediment deposition areas to the north (Phase I) and south (Phase II) to restore these wetlands and enhance Land Bridge integrity. Phase I would restore the bounding shorelines and restore approximately 1,800 acres of wetlands. Phase II would restore approximately 2,000 acres of wetlands.	This project would restore hydrologic conditions at the critical Land Bridge area by plugging several oil and gas canals, restricting channel dimensions at Harvey Cut, and restricting channel dimensions at the Bayou PeroV Little Lake intersection.	The project includes the development of an area-wide sediment delivery system. This system would utilize sediments that are hydraulically-dredged from the Mississippi River, and transported via slurry pipelines to the Hargeted marsh sites. The existing rock dires at Dupte Cut will act as a retention feature to ensure that the sediments are successfully distributed into the harant areas.
S S S S S S S S S S S S S S S S S S S	\$855,000	Not provided	Not provided	Not provided	Not provided	Not provided	Not provided	Not provided	Not provided	Not provided	Not provided	Not provided	Not provided	Not provided	Not provided	Not provided	Not provided	Not provided	Not provided	Not provided	Not provided	Not provided	Not provided	Not provided	Not provided	Not provided	Not provided	Not provided	Not provided	\$25,000,000	\$2,770,000	\$45,880,000
ited astron	Jef.	Plaq.	Plaq.	Plaq.	Plaq.	Plaq.	Plaq.	Plaq.	Plaq.	Plaq.	Plaq.	Plaq.	Plaq.	Plaq.	Plaq.	Plaq.	Plaq.	Plaq.	StB.	StB.	StB.	StB.	StB.	StB.	StB.	StB.	StB.	StB.	StB.	Jef.	Jef.	Jef.
estate tones	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	103	103	103	103	103	103	103	103	103	103	103	105	105	105
atok selak	ø	٢	-	t	-	1	1	1	٢	-	-	-	1	1	1	1	1	1	1	1	1	1	-	-	+	-	1	-	-	ω	ω	œ
	FD	MC	MC	FD	FD	FD	FD	FD	FD	MC	RR	RR	RR	RR	RR	RR	RR	SP	FD	SP, OR	MC	MC	MC	MC	MC	SP, OR	SP	SP	OR	MC	НК	MC
A A OREC	LaBranche Wetlands Drainage Diversion	Breton Sound	Baptiste Collete	American/California bay	Bayou Lamoque	Caemarvon	Fort St. Phillip	Grand Bay	White Ditch	Breton Land bridge	Baptiste Collete-Fort St. Phillip	Bohemia-White's Ditch	Caemarvon	Caemarvon	Fort St. Phillip-Ostrica	Ostrica-Bayou Lamoque	River aux Chenes	Breton Sound	Violet	Lake Borgne	Bayou Terre aux Boeufs/ La Loutre	Biloxi Marsh	Central Wetlands	Lake Borgne/MRGO	Orleans Landbridge	Biloxi Marsh	Lake Borgne	Orleans Landbridge	St. Bemard Parish	Bayou Dupont Sediment Delivery Expansion	Bayou Rigolettes, Bayou Perot, and Harvey Cut Channel Management	Dupre Cut Project (BA-26) Wetland Restoration
ABOT BOT	JE-1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NA-9	PR-1	MG-3
Блод	State and Local	A\N	A\N	A\N	A\N	∀/N	∀/N	A\N	A\N	∀/N	∀/N	A\N	∀/N	A/N	A\N	A\N	A\N	A/N	A\N	A/N	∀/N	∀/N	A\N	A\N	A\N	∀/N	A\N	A\N	A\N	Аячау	СМРРЯА	СМРРЯА

Planning Unit	2	7	0	N	N	N	7	N	2	2	5
Project Summary	The project would be conducted in three phases. Phase I would involve placing a dedicated dredge in the Barataria Bay Waterway that would retrieve sediments from the bottom of the waterway and place them behind the existing rock armor adong the eastern shore. Phase I would include constructing a rock dive along the southeastern shoreline of The Pen and using a dedicated dredge to place materials behind it. Phase III would consist of reinforcing the existing protection along the southeastern shore of The Pen and filling the area behind the protection with dredged material.	This project proposes to strategically place four sheetpile barriers in the Barataria Bay Waterway as a means of reestablishing historic levels of hydrologic exchange within the area. This project would help protect the integrity of the shorelines of the Dupre Out portion of the Barataria Bay Waterway. The project would also restrict channel dimensions to limit satiwater intrusion, tidal prism, and enhance freshwater retention.	The project would reconstruct breached shorelines, then restore interior marsh elevations and sand dune features.	This project is designed to fortify the region on the southern side of a portion of the Land Bridge Project - Phase 3. The wetland area is being hydrologically degraded by interior exposure from the offield canta breaches and shoreline encsion along surrounding water bodies. The project would construct approximately 28,000 feet of shoreline protection interspresed with viable offield canta focusers, followed by the placement of dedicated dredge material to restore elevators of degraded with viable offield canta focus. The final identification of viable cantal dosure and wetland fill targets would be established during project design to maximize project effectiveness and minimize oil and gas impacts.	Approximately 8,000 linear feet of additional shoreline protection would be added along the west side of Goose Bayou to its intersection with Cypress Bayou. A dedicated dredge would the move sediment from the bottom of The Pen to the area behind the shoreline protection. The deposited material would be built into a topographic ridge to restore the historic function of ridges in the project area. The artificial ridge would be planted with woody vegetarion.	This project will restore the natural ridges that historically sustained the growth of Oak Trees. The restored ridges would then be vegetated.	This project will restore the areas natural chenier plain morphology by restoring the elevation and integrity of approximately seven deteriorated ridges. Existing ridges would be followed and breaches would be plugged to interconnect remaining ridge features. The project would also provide for the restoration of formers bronrow plis along L.Highway.1 Extension the former borrow plis would include the degradation of frait levees, followed by the placement of fill. Future dedicated dredging projects could be initiated for the purpose of restoring basin areas between the restored ridges to restore natural elevation and hydrologic gradients.	This project will restore the natural ridges that historically sustained the area's complex hydrology. Existing bankines will be followed and breaches will be plugged to interconnect existing land masses, and would thus create a series of ridges. The northern ridge would be constructed along a portion of the north bank of Bayou Dupont that lies between its intersection with oil and gas canais in the Saa Deuce area, westward from the intersection with the southest back of Chenier Traverse Bayou. The southearn ridge would be constructed along the intersection with the southest back of Chenier Traverse Bayou. The southearn ridge, north of Dupe Cut, and the intersection of the Barataria Bay Waterway with the historical ridge, crossing the Texaco Canais, and then intersection with the north bank of Bayou Barataria fidge, north of Dupe Cut, and would then veer southeastand, along the north bank of the historical ridge, crossing the Texaco Canais, and then intersection with the north bank of Bayou Maurice, to terminate at the west bank of the Barataria Bay Waterway, south of Dupe Cut.	This project is to restore natural hydrology by eliminating avenues for saltwater intrusion and sediment loss. The Texaco Canals are a maze of existing oil and gas canals which now breach the natural ridges. After an evaluation of production activities within the field, several canals will be eliminated and plugged of to re-connect existing land masses. Future dedicated releging can be utilized to fill the abandoned canals to reduce saltwater intrusion and enhance freshwater and sediment retention.	This project would protect the integrity of the north shoreline of Bayou Rigulettes at its intersection with Bayou Barataria near Latifie, and would provide protection for the foundation and site of an existing water tank facility that provides postel drinking water to the coastal community of Grand Isis. The project would also alimitate further erosion of the north bark of Bayou Rigoettes directly at its intersection with Bayou Barataria, and by restricting any further widening of the channel, would help to limit unrestricted tidal prism exchange and saltwater intrusion.	This project would plug redundant olifield access canals to enhance freshwater retention, improve hydrology, and to reduce pathways for saftwater intrusion and extreme tidal exchange.
Steology	\$34,800,000	\$7,600,000	N/A	000'000'68\$	\$5,000,000 - \$25,000,000	\$3,000,000	\$19,000,000	\$6,230,000	\$2,230,000	\$1,040,000	\$1,300,000
Little Cashort	Jef.	Jef.	Jef.	Jef.	Jef.	Jef.	Jef.	Jef.	Jef	Jef	Jef.
tous of the set	105	105	105	105	105	105	105	105	105	105	105
PARTER PARTER	ω	8	ω	ω	œ	ω	ω	ω	ω	ω	ω
Sig.	MC, SP	HR	с С	MC, SP	ЧS	Ē	B	ĸ	н	ę	ß
ALEN LEGOL	South Shore of The Pen Shoreline Protection/ Stabilization	Dupre Cut' Barataria Bay Waterway Channel Management	PPL 3 (XBA-1c) Grand Pierre Island Restoration	Land Bridge Shoreline Protection Extension and Wetland Restoration	Goose Bayou to Cypress Bayou Shoreline Protection	Elmer's Island and West Grand Terre Oak Ridge Restoration	Caminada Chenier Restoration	Myrtle Grove Natural Ridge Restoration	Lafitte Oil and Gas Field (East) Restoration	Shoreline Stabilization at North Bank of Bayou Rigolettes near Bayou Barataria	Delta Farms Oil and Gas Field Restoration
*\$6 ₁ Hoo	MG-5	PR-2	BS-1	PR-7	NA-3	BI-4	FN-1	MG-1	MG-2	PR-5	PR-6
Program	СМРРЯА	СМРРЯА	АЯЧЧЖА	СМРРКА	СМРРЯА	Аячау	СМРРЯА	СМРРЯА	СІУЬ	СІ∀Ь	СІҰЬ

Planning Unit	7	2	2	2	2	2	2	N	2	Ν	7	~	2	2	2	2	2	2	2
Project Summary	The project is designed to protect Grand Isle's southern shoreline from erceion which may eventually affect the integrity of an offshore pipeline corridor. This alternative would construct a rock dike along an approximately 2-mile section of Grand Isle shoreline to directly protect the beach by armament.	The project is designed to protect Grand Isle's southern shoreline from erosion which may eventually affect the integrity of offstore pipeline corridor. This alternative would construct approximately 1.25 miles of rip-rap breakwater segments to extend an existing breakwater alignment eastward. This would indirectly protect the beach by reducing wave ensured wave ensured.	This project would complete the preliminary design for the construction of a replacement for the Leeville Bridge. The preliminary design phase would include survey, geotechnical testing, mitgation, permits, and the preparation of a preliminary design	The project would construct approximately 22.000 feet of restored shoreline to reconnect remaining landmasses of the peninsula. Dedicated dredge material would then be placed to fill open water areas, then to restore overall wetland elevations. The sequencing and limits for the filling of target areas would be established during project design to maminize afteriowness.	This project would construct flood protection from the Town of Jean Lafitte southward to Goose Bayou. The flood protection system would be constructed east of LA Highway 45 at the wetland/non-wetland interface.	This project recommends the public purchase and preservation of 1,700 acres of Eimer's Island as a publicly accessible primitive area.	The project involves the development of multi-use facilities to provide individuals of all physical capabilities with onsite recreational opportunities. The development will also afford them access to the adjacent wellands, nearby State and Federal parks, and the abundant natural and outlural experiences offered by Louisiana's wetlands.	This project would provide basin-wide protection to insure the integrity of the affected welland shorelines south of Bay Jimmy and Wilkerson Bayou in the eastern portion of the project, north of Barataria Bay in the middle portion of the project, and adjacent to Bayou Cholas, Bayou Defond, and Creole Bay in the western portion of the project. The project would restance channel dimensions at various locations in order to limit saltwater intrusion, tidal prism, and enhance fresthwater retention.	This project involves using a dedicated dredge, during high water levels in the river, to pump river-bottom sediment into the discharge stream of the siphon. The enriched effluent would continue its course over land, depositing the sediments along its route.	The proposed project envisions re-routing the Rosethome wastewater treatment plant effluent from the Intracoastal Canal to an area of adjacent wellands. The project would consist of upgrading the capacity of the existing severage effluent pumping station and installing approximately 1,300 feet of force main. Water control structures and a flow distribution system would also be constructed to channel the flow through the wetlands. The outlet of the discritage line would be placed at the most hydrologically upstream point of the target wetland feasible to ensure that the maximum area of wetlands is benefited and the highest contaminant removal possible is achieved.	The proposed project envisions re-routing the Westwego wastewater freatment plant effluent from the local drainage canal network to an area of adjacent wetlands. The project would consist of constructing an effluent purpring station and installing approximately 4200 freat price main. Water control structures and a flow distribution system would also be constructed to channel the flow through the wetlands. The outlet of the discharge line would be placed the most lyndogical upstream point of the larget wetland fished on ensure that the maximum area of wetlands is benefited and the highest contaminant removal possible is achieved.	This project will modify existing ineffective breakwater segments on the northwest side of Grand Isle to close gaps which prevent sediment accretion.	Barrier island fronting Bay Coquette east of Scofield Island.	Chaland Headland.	Cheniere Ronquille.	East Grande Terre.	Pass Chaland to Grande Bayou Pass.	Restoration enhancement including elevating dunes and widening islands and planting a mangrove filinge on the backside of the islands across 2.4 miles, approximately 10 feet high and 2000 feet wide.	Barrier Island E of Bav Contrette to Sandy Point
an arise	\$2,400,000	\$1,600,000	\$1,750,000	\$125,000,000	V/N	\$6,000,000	\$28,000,000	\$42,600,000	\$330,000	000'06\$	\$350,000	\$650,000	Not provided	Not provided	Not provided	Not provided	Not provided	Not provided	Not provided
~ /	Jef.	Jef.	Jef.	Jef.	Jef.	Jef.	Jef.	Jef.	Jef.	Jef.	Jef.	Jef.	Plaq.	Plaq.	Plaq.	Plaq.	Plaq.	Plaq.	Plag.
, / ,	105	105	105	105	105	105	105	105	105	-0 2	105	105	105	105	105	105	105	105	105
, ,	8	œ	œ	ø	8	8	8	ω	ø	ω	ω	ω	-	-	1	1	-	-	t
	SP	dS	INF	MC, SP	НР	LA	ΓA	ъ	FD	WA	WA	SP	BI	BI	BI	BI	BI	BI	BI
Contraction of the second	Grand Isle Oil and Gas Pipeline Corridor Shoreline Protection - Alternative 1	Grand Isle Oil and Gas Pipeline Corridor Shoreline Protection - Alternative 2	Leeville Bridge Preliminary Design	Bayou Perot ^v Rigolettes Peninsula Restoration	Goose Bayou to Lafitte Levee	Elmer's Island Acquisition and Preservation	Wetland Harbor Activities Recreational Facility (WHARF)	North Barataria Bay Shoreline Wave Breaks	Naomi Siphon Sediment Enrichment	Rosethorne Wetlands Sewage Effluent Diversion	Bayou Segnette Wetlands Sewage Effluent Diversion	Grand Isle Plan, Part I - NW Grand Isle Breakwater Enhancement	Bay Coquette Barrier Island	Chaland Headland	Chenier Ronquille	E. Grand Terre	Pass Chaland to Grand Bayou	Pelican Island	Sandy Point Barrier Island
AND INON	BI-5	BI-5	LAF-3	PR-11	NA-8	BI-3	CS-4	8 	NA-1	8-6 NA-6	S C C	BI-6	N/A	N/A	N/A	N/A	N/A	N/A	N/A
чЧ	GIAP	СІАР	СІАР	АЯАЭ	АЯАЭ	АЯАЭ	АЯАЭ	АЯАЭ	State and Local	State and Local	State and Local	State and Local	∀/N	A\N	A\N	∀/N	∀/N	A\N	A١

Planning Unit	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	4	3a	За	За	За	g	За	3a
Project Summary	Sandy Point/Bay Coquette.	Restoration enhancement including elevating dures and widening islands and planting a mangrove fringe on the backside of the islands approximately 10 feet high and 2000 feet wide.	Shell/Lanaux Island.	Baptiste Collete sub-delta.	Venice: Tiger Pass to West Bay.	Buras/Bastian Bay Diversion.	Myrtle Grove Diversion.	Naomi Siphon.	Spanish Pass Freshwater Diversion.	West Pointe a la Hache Siphon.	Fringe Marsh Construction.	Myrtle Grove to Naomi Fringe Marsh.	Port Sulphur to West Pointe a la Hache Fringe Marsh.	Fringe Marsh Construction.	West Pointe a la Hache to Myrtle Grove Fringe Marsh.	Empire Channel Islands, Bayou Long/Bayou Fontanelle.	Bayou Grand Cheniere/Lake Hermitage.	Ridge North of Bay de la Cheniere (West of Naim).	Bastian Bay.	Bay Coquette.	Bay Joe Wise.	Bay Long.	Bayou Grande Liard/Buras Fringe Marsh.	Empire Waterway/ Bayou Long.	North of West Grande Terre Island.	Ridge West of Venice along banks of Spanish Pass.	Install a barrier along the south bank of Schooner Bayou from LA Hwy 82 to the Schooner Bayou structure. These measures would hait saltwater intrusion into the basin, preserving the integrity of the Memmentau Basin and create surge protection for the communities, agricultral economy and act as another line of defense against storm surges caused by tropical softms and hurricanes.	Description not provided.	Description not provided.	Description not provided.	Description not provided.	Sediment would be dredged from Lake Decade and placed in a semi-confined manner in strategic locations along the lake shoreline to create and nourish intentidal intermediate and fresh marsh. Approximately half of the created marsh would be planted with appropriate wetland vegetation. The borrow area in Lake Decade would be located and designed in a manner to avoid and minimize potential environmental impacts to the maximum extent practication.	Description not provided.	Description not provided.
4400 COR	Not provided	Not provided	Not provided	Not provided	Not provided	Not provided	Not provided	Not provided	Not provided	Not provided	Not provided	Not provided	Not provided	Not provided	Not provided	Not provided	Not provided	Not provided	Not provided	Not provided	Not provided	Not provided	Not provided	Not provided	Not provided	Not provided	Not provided	Not provided	Not provided	Not provided	Not provided	\$21,000,000	Not provided	Not provided
48.46 134.481C 884 C4.4	Plaq.	Plaq.	Plaq.	Plaq.	Plaq.	Plaq.	Plaq.	Plaq.	Plaq.	Plaq.	Plaq.	Plaq.	Plaq.	Plaq.	Plaq.	Plaq.	Plaq.	Plaq.	Plaq.	Plaq.	Plaq.	Plaq.	Plaq.	Plaq.	Plaq.	Plaq.	Ver.	Ter.	Ter.	Ter.	Ter.	Ter.	Ter.	Ter.
1348 C BHE LESS	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	47	51	53	51	51	2	51	53
ARLASS ARLAND	-	+	-	£	۲	٦	-	٢	1	1	1	٢	+	+	۲	٢	۲	۲	4	£	۲	£-	-	۲	٢	£-	26	20	20	20	20	20	20	20
*6 ₁₀	В	BI	BI	DE	FD	FD	FD	FD	FD	FD	MC	MC	MC	MC	MC	RR	RR	RR	SP	SP	SP	SP	SP	SP	SP	RR	SP	MC	BI	MC	MC	MC	MC	MC
SUBN CSIG	Sandy Point	Scofield Island	Shell/Lanaux Island	Baptiste Collete	Venice	Bastian Bay/Buras	Myrtle Grove	Naomi	Spanish Pass/Venice Diversion	West Point a la Hache	Empire-Triumph Fringe Marsh	Myrtle Grove-Naomi	Port Sulphur-West Pointe a la Hache	Venice-Triumph Fringe Marsh	West Point a la Hache-Myrtle Grove	Bayou Long/ Bayou Fontanelle	Lake Hermitage	Nairn	Bastian Bay	Bay Coquette	Bay Joe Wise	Bay Long	Bayou Grand Liard/Buras	Bayou Long	Grand Terre (West)	Venice	Highway 82/ Schooner Bayou Control Structure	South-West Shore Lake Decade	East Island Dune and Marsh Restoration	Marsh Creation to the North of Lost Lake	West Shore Lake Decade	Lake Decade Marsh Creation and Nourishment	North Shore Lake Mechant	Marsh Creation East of Lake Boudreaux
³ 64 #367	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	FD 8	FD 42	FD 6	FD 7	FD 9	FD 10	FD 28
Ргодгат	∀/N	∀/N	A\N	A\N	A\N	A\N	A\N	A\N	A\N	A\N	A\N	A\N	∀/N	∀/N	A\N	A\N	∀/N	∀/N	∀/N	A\N	A\N	A\N	A\N	A\N	A\N	A\N	A\N	A\N	∀/N	A\N	∀/N	A\N	A\N	A\N

Planning Unit	За	3а	3a	За	3a	За	3a	За	3а	3a	3a	За	За	3a	3a	За	3а	g	3a	3a	3a	За	3a
Project Summary	Description not provided.	Description not provided.	Description not provided.	Description not provided.	Description not provided.	Description not provided.	Description not provided.	Description not provided.	Description not provided.	Description not provided.	Description not provided.	Description not provided.	Description not provided.	Description not provided.	Marsh creation on the east bank of Bayou Terrebonne from Madison Canal to Grand Bayou to improve the integrity of the channel to convey freshwater.	Description not provided.	Description not provided.	The proposed project consists of several features to protect the marsh, create marsh and extend the land bridge function of the North Lost Lake Mechant Landbridge Project to the west. Marshes north, east, and west of Lost Lake serve an important function as an intermediate zone buffering freesh marshes to the north from higher satinities to the south. Features include 160 acress marsh nourishment along the northern and western shoreline of Lost Lake, 30 acress tearing to reduce fetch in the northeast of Lost Lake, 300 acress of marsh creation between Lake Paige and Bayou Decade, removal of weirs and installation of more open structures to increase the flow of freshwater and sediment delivery.	Use of material dredged from the Atchafalaya River to create marsh of Point Au Fer Island.	Description not provided.	Description not provided.	Description not provided.	Description not monidad
	Not provided	Not provided	Not provided	Not provided	Not provided	Not provided	Not provided	Not provided	Not provided	Not provided	Not provided	Not provided	Not provided	Not provided	\$5,000,000 - \$20,000,000	Not provided	Not provided	\$26,000,000	\$5,000,000 - \$20,000,000	Not provided	Not provided	Not provided	Not provided
	Ter.	Ter.	Ter.	Ter.	Ter.	Ter.	Ter.	Ter.	Ter.	Ter.	Ter.	Ter.	Ter.	Ter.	Ter.	Ter.	Ter.	Ter.	Ter.	Ter.	Ter.	Ter.	Tor
	51	51	51	53	53	53	51/53	53	53	51	51/53	53	53	51	53	53	51	51	51	23	53	51/53	c L
	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	8
	MC	RR	RR	MC	MC, SP	MC	MC, SP	MC	RR	SP, RR	MC	MC	MC	MC, SNT	MC	MC	MC	SP, HR	MC	Ē	٩S	SNT	E.C
	Marsh Creation North Raccourci Bay	Bayou Dularge to Grand Pass Ridge Restoration	Bayou Decade Ridge Restoration from Lake Decade to Raccourci Bay	Marsh Creation Bush Canal	Lake Boudreaux-Lake Quitman Shoreline Protection and Marsh Creation	Marsh Creation North Shore Lake Tambour	Terrebonne Bay Shoreline Protection/Marsh Creation Comprehensive Plan Project	Marsh Creation East of Felix Lake	Bayou Terrebonne Ridge Restoration - Below Bush Canal	Lake Mechant South-West Shoreline Protection and Bayou Dularge Ridge Protection	HNC Beneficial Use of Dredge Material (Bay Tambour and Terrebonne Bay)	Madison/Terrebonne Bays Marsh Creation	Marsh Creation North Shore Lake Chien	Bay Raccourci Marsh Creation and Terracing Project	Rebuild the East Bank of the Bayou Terrebonne - Integrity for Freshwater Conveyance	Marsh Creation North Deep Saline	Marsh Creation West of Four Point Bayou	Lost Lake Shoreline Protection and Hydrologic Restoration	Marsh Creation South-West of Four League Bay (Phased Implementation)	North Lake Boudreaux Basin Freshwater Introduction and Hydrologic Management	Bank Stabilization along Bush Canal and Bayou Terrebonne	DULAC Bayou - Marsh Terracing	
\$307	FD 11	FD 35	FD 36	FD 12	FD 13	FD 15	FD 16	FD 27	FD 34	FD 87	FD 88	FD 89	FD 14	FD 19	FD 20	FD 25	FD 26	FD 31	FD 63	FD 69	FD 84	FD 17	
4	A\N	A\N	∀/N	A\N	∀/N	∀/N	A\N	∀/N	A\N	∀/N	A\N	∀/N	A\N	∀/N	∀/N	A/N	∀/N	A\N	∀/N	∀/N	∀/N	∀/N	v

Planning Unit	За	За	3a	3a	3a	3а	3a	За	За	За	3а	3a	За	3а	За	За	e e	9 B	ЗЪ
Project Summary	Description not provided.	Description not provided.	Description not provided.	Description not provided.	Description not provided.	Description not provided.	Description not provided.	Description not provided.	Description not provided.	Description not provided.	Description not provided.	Description not provided.	Description not provided.	Description not provided.	Description not provided.	Description not provided.	Under normal circumstances, the Franklin Canal funnels stormwater from urban areas in and around Franklin to low lying outfall marshes and bays of the Guff of Mexico along Louisiana's central coast. However, the Franklin Canal lass serves as a conduit for reverse flows generated by storm surge from the Guff. In this capacity, the cranal has carried elevated water levels northward resulting in flooring in Franklin and along US Hwy 90 (an evacuation route) during Hurricanes Rita and Ike. A closure and levee improvements are proposed to prevent backflow through the canal during surge events. The proposed project uses a floating barge to close the canal and includes sheet pile, earthwork embankment, and levee improvements.	The need for levee improvements in Morgan City was brought to the forefront by FEMA's issuance of new preliminary Digital Flood Insurance Rate Maps (DFIRMs) in 2009, recent levee profile surveys, and a subsequent appeal to FEMA issued by the City of Morgan City. Being proactive in nodo protection, the citizens within Consolidated Gravity Drainage District No. 2 (Morgan City and vicinity) passed a bond election in late 2006. Proposed levee and purp station innovements indicate upgrades to existing levees to elevations arranging from 8 feet to 10 feet MSL. The improvements address vulnerability caused by water levels arrising from Lake Palourde. The proposed upgrades will provide backwater probection from Atzhatebargan revien events and stom surge from the Giff as well as from stormwater under in north in difficulty and with the Giff as well as from store from store project, backwater protection levees in Morgan City will be suitable for certification by the City and FEMA accreditation.	Amelia flood protection presently consists of a somewhat disparate, non-certifable levee system which offers minimal backwater protection from Bayou Boeuf and Lake Palaurde. Drainage District No. 6 applied for Statewide Flood Control Program funds to increase the height of the levee to a consistent 7 feet MSL. Partial funding was granet. However, this initial phase is but a fraction of the proposed comprehensive levee system needed for the Amelia vicinity as proposed by the drainage district and state and federal authorities.
Stadio Contra	Not provided	Not provided	Not provided	Not provided	Not provided	Not provided	Not provided	Not provided	Not provided	Not provided	Not provided	Not provided	Not provided	Not provided	Not provided	Not provided	\$5,775,000	\$16,000,000 \$20,000,000	\$2,260,350
5.91,00 0,149,00	Ter.	Ter.	Ter.	Ter.	Ter.	Ter.	Ter.	Ter.	Ter.	Ter.	Ter.	Ter.	Ter.	Ter.	Ter.	Ter.	StM.	StM.	StM.
CHIEC BEIGH	53	51	53	51	53	51	53	51	51	53	53	53	51	53	53	53	20	20	50
944495 9451-1396012	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	5	5	21
*G.	HR	H	HR	НК	HR	HR	FD	HR	HR	В	В	В	BI	BI	BI	В	노	유	đH
Stuff 13900	Lower Grand Caillou	Upper Grand Caillou	Point-Aux-Chene	Remove Constrictions/Dredge GIWW from Bayou Black to Bayou Wallace	Installation of Flap Gated Culverts Under Highway 57 between Dulac and Highway 56	Plugs Leaks in GIWW (Bankline Protection for GIWW)	Break in Avoca Guide Levee, North of Horse Shoe to Convey Freshwater to Terrebonne Marshes	Chacahoula Basin Plan	Carencro Bayou Freshwater Introduction Project	Wine Island	West Timbalier Island	Beach and Back Barrier Marsh Restoration, East and Trinity Islands	Barrier Shoreline Restoration Point Au Fer Island	Wine Island Rookery	West Raccoon Island Shoal Enhancement and Protection	Rock (Breakwaters) for Whiskey Island	Franklin Canal Closure and Levee Improvements	Morgan City Levee Improvements	Amelia Flood Protection Improvements - Initial Phase (Partial Miller Plan Alternative 2E)
* AC C ROOT	FD 75	FD 76	FD 78	FD 60	FD 82	FD 3	FD 61	FD 32	FD 64	FD 43	FD 44	FD 50	FD 56	FD 46	FD 48	FD 38	NA	ΥN	N/A
Ргодгат	∀/N	A\N	A\N	∀/N	∀/N	A\N	A\N	∀/N	A\N	A\N	A\N	A\N	A/N	A\N	A\N	A\N	A\N	Ψ/N	A\N

Planning Unit	<u>з</u> р	3b	ę	æ	3B	Зb	Зb	ЗЪ	Зр	Зb	8	3b	æ
Project Summary	Hanson Canal and Yellow Bayou, both similar to the Franklin Canal, were designated to serve as conduits for removal of stomwater following normal rainfall events. However, during hurricanes and related events, both serve as a means for reverse flow generated by storm surge. Hurricanes Rita and Ike are recorded example events. Closures and levee improvements are needed to prevent surge flows from moving inland during surge events.	During Hurricane ike, the Charenton Navigational Canal overflowed its banks and inundated the Yokely drainage area with storm surge. Levee improvements and construction of a berm parallel to Industrial Road and the Charenton Navigational Canal south of US 90 are needed to prevent damages from storm surge inundation.	This alternative is presented as a flood control structure with embankment improvements along both sides of the Charenbon Canal. Embankment improvements are needed to prevent overtopping of the canal along its length near uppan eras. These improvements with connectio svating levees that are planned from upgrading and proposed federal and/or Statk funded levees. The limeframe for the construction of these federal/State levees was indefinite at this writing. Nonetheless, the general consensus at the local, regional. State, and federal levels is that he major wave levee improvements are decades away, dependent upon completion of proposed federal and state alignments west of the althermiton. Canal to and beyond the Cypernort Ridge tyring in to highlands of the Teche Ridge near the parish line.	Alternative 2 proposes the construction of a flood control structure in Bayou Teche east of its intersection with Charemon Canal. This alternative is less costly than the previous option as it is not dependent on thure new federal or state levee construction west of the Charemon Canal or along or west of the Cypremort Ridge. A short levee extension extending northward from the westernmost end of the Bayou Yokely Levee reach will be required.	Reach W-124 near Turtle's Corner south of the city limits of Berwick has a height deficient section approximately 75 feet wide and 1.5 feet deep. The proposed project, which is a federal responsibility, is to fill and compact the area to ensure levee height and design consistency with the surrounding system.	Within the area defined by Drainage District No. 1, this project requires the elevation of 43 miles of levee to no less than 18 feat. The current levee heights range from 3.5 feet to 20 feet MSL, and some reaches of the existing levee system have been beached by storm surge.	Alternative 2E follows the existing levee alignments in the northwestern section of Amelia and then create an internal levee ring to protect most of the residential areas of Amelia. This alternative excludes much of the industrial area along Bayou Boeuf.	The Berwick Lock is currently below the elevation of the surrounding Atchafalaya River levee and seawall protection system. This situation creates vulnerability for all urban and agriculture land situated between Berwick and Calumet as a direct function of Atchafalaya River flows, both riverine and surge. The USACE is aware of the lock elevation deficiency and has the responsibility to elevate the height as needed.	The reaches currently protect the municipalities of Berwick and Patterson and the community of Bayou Vista from storm surge. Currently, the levee reaches range from 9-19 feet MSL. The proposed project would elevate the levees to a consistent if Reet MSL.	Reconnaissance Study and possible feasibility analysis	This alternative is presented in the Miller Plan, begins in Assumption Parish on the east side of Bayou Boeuf near lis interscenton with Lake Palourde, continues southward east and inclusive of asking urban areas, crosses the Intracoastal Waterway with a control siturcture, continues westward in St. Mary Parish south of the Intracoastal Waterway along the higher ground of Aroca siland in a generally northwest direction, and fies into the Aroca Levee near the Bayou Boeuf Locks south of Morgan City.	The Louisiana State Master Plan Alignment begins east of St. Mary Parish coming westward from Terrebonne Parish to the east bank of Bayou Boeuf, crosses Bayou Boeuf south of the railroad track via a control structure, follows Bayou Boeuf on the Amelia side southward then turns northwest along the bank, proposes a lock in Bayou Boeuf connection to Avoca Island levee near the Bayou Boeuf Locks at Morgan City.	An additional alternative was presented during the planning process (4E) involving the construction of a backwater protection flood control structure in Bayou Chene south of the GWW with associated new levee alignments. This alternative is in the conceptual stage of planning and regulares additional analysis, comparison, and contrast to the other asstern SL Mayr and regional backwater protection alternatives. Once reassonable feasibility is established a detailed evaluation of this alternative may be warranted as a suitable alternative in the state master plan. An initial investigation agenerally following the guidelines of a USACE recomaissance study would be in order in an effort to determine the basic feasibility of the alternative. A more detailed desibility will follow should the project prove feasible with benefits and cost compariable. A more detailed desibility will follow should the project prove feasible with benefits and cost compariable.
appencost?	\$6,200,000	\$5,000,000	\$114,000,000	\$14,000,000	\$200,000	\$117,000,000	\$50,000,000	\$1,000,000 - \$100,000,000	\$22,000,000	\$100,000	\$171,650,000	\$400,000,000	
⁴ Fled	StM.	StM.	StM.	StM.	StM.	StM.	StM.	StM.	StM.	StM.	StM.	StM.	StM.
¹⁰ H ^S C ⁶ H ₁ S	50	50	Q	50	50	50	50	50	50	50	20	50	50
atter to a form	21	21	21	21	21	21	21	21	21	21	21	21	21
, ist	ΗΡ	НР	유	머	НР	Ħ	НР	Η	Η	НР	£	НР	막
PHEN 13963	Hanson Canal and Yellow Bayou - Flood Control Structures	Y okely Levee Improvements	Charenton Canal - Flood Control Structure and Levee Improvements - Alternative 1	Charenton Canal - Flood Control Structure and Levee Improvements - Atternative 2	Berwick Levee Improvements - Reach W-124 South	West of Wax Lake Outlet to Charenton Canal - Continued Levee Improvements	Amelia Area - Continuation of Miller Plan Alternative 2E	Berwick Lock Elevation	WHLO East, Wax Lake East, and W-124 Levee Reach Improvements	SMLD Backwater Plan Reconnaissance and Feasibility Analysis	Amelia Area - Miller Plan Alternative 3E	Amelia Area - Louisiana State Master Plan Alignment 1E	Amelia Area - SMLD Backwater Prevention Plan 4E
BRUNN I GBIG IS I BOGI	N/A	N/A	ЧИ	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Ргодгат	A\N	A\N	∀/N	∀/N	∀/N	∀/N	A\N	∀/N	A\N	A\N	∀/N	A\N	A\N

Planning Unit	ЗЪ	3b	Зр	Зр	æ	Зb	3b	Зb	3b	30	3b	3b	3b	3b	3b/4	3b/4
Project Summary	Bayou Choupique functions as a conduit for storm surge much like the canals noted previously. A flood control structure and associated levee improvements are proposed to ensure adequate flood protection for the west end of the parish.	The levees along Bayou Sale are proposed for elevation to 18 feet MSL to ensure adequate storm surge protection. Gordy and Ellersile reaches are included.	This Miller Plan alternative proposes a levee alignment west of the Charention Canal that generally follows the 5 foot contour extending westward to the lvanhoe Canal, turns southward along the east side of the Cypremort Ridge, crosses Bayou Cypremort with a minor control structure, then generally follows the 5 foot contour along the west side of the ridge to appropriate connecting elevations of the Teche Ridge.	The Louisiana State Master Plan proposes a levee alignment which generally follows the alignment of the Miller Plan's western levee routing, but instead of turning south at the Cypremort Ridge, it continues westward crossing the ridge and extends to and beyond the parish line into Iberia Parish.	Scott Canal acts as a conduit for storm surge much link the Franklin Canal. A flood control structure is proposed to ensure adequate flood protection for the west end of the parish.	Kelley Canal acts as a conduit for storm surge similar to others noted. A flood control structure is proposed to ensure adequate flood protection for the west end of the parish.	The Vacherie Canal acts as a conduit for storm surge similar to others noted. A flood control structure is proposed to ensure adequate flood protection for the west end of the parish.	Provide protection to the watershed from storm events by construction of a levee system and water control structures that would link to similar measures in Iberia Parish.	Construct a flood control structure at the intersection of Boston Canal and the GIWW that could be closed in the event of a hurricane or tropical storm that would aid in stemming the rise of flood waters.	A reduction in the cross-sectional area of the channel by installing a structure at the terminal end which could be closed during storm events. An opening in the structure would allow the passage of marine vessels and barges. This would be in conjunction with other measures proposed for the GIWW whereby spoil elevation and armoning along the south side of the GIWW is znoposed.	Install control structure on the Hebert Canal at the marsh/upland interface and raise the level of existing protection levees that will afford increased protection to communities from satiwater intrusion damage and flocding from storm surges. A previous plan created by the USDA NRCS has been completed and has engineering and design data.	By raising the height of an existing system of agricultural levees, an additional line of defense from tidal surges could be recognized. These existing levees would serve as a sound base for increasing the elevation.	Armor the south side of the eastwest side of LA 330.	Construct a flood control structure at the intersection of Oaks Canal and the GIWW that could be closed in the even of a hurricane or tropical storm that would aid in stemming the rise of flood waters and protect surrounding wetlands.	Provide protection to the eastern spoil banks along Freshwater Bayou by repairing existing breaches and subsequently armoring the existing spoil bank. This would create a sound boundary which would protect subsequently armoring the existing spoil bank. This would create a sound boundary which would protect subsequently armoring the existing spoil bank. This would create a sound boundary which would protect subsequently armoring the existing spoil bank. This would create a sound boundary which would protect measures also would be undertaken to reduce the cross-sectional area of the intersection where Bayou Chene intersects Vermilion Bay.	Using existing olifield canal spoil banks, raise existing elevation so that it would serve as a buffer that would intercept and minimize storm surge impacts and help reduce the amount of water borne floatsam and debris.
Stoo 1990 P	\$40,000,000	\$32,700,000	\$66,250,000	\$35,000,000	\$500,000	\$500,000	\$500,000	Not provided	Not provided	Not provided	\$3,000,000	Not provided	Not provided	Not provided	Not provided	Not provided
¹ Filed	StM.	StM.	StM.	StM.	StM.	StM.	StM.	Ver.	Ver.	Ver.	Ver.	Ver.	Ver.	Ver.	Ver.	Ver.
Strong Diffsic Billions	50	50	50	50	50	50	50	49	50	47	47	47/50	50	50	47	47/50
atti sator	21	21	21	21	21	21	21	26	26	26	26	26	26	26	26	26
139 CEL	Ч	НР	보	보	đH	đ	ЧH	НР	Η	보	ЧH	ЧЬ	ЧH	₽	ß	ЧH
PUEN LOOG	Bayou Choupique - Levee Improvements and Flood Control Structure	Bayou Sale - Levee Improvements	West of Chareton Drainage Canal- Levee Construction - Miller Plan (SMLD Atternative 2W)	West of Chareton Drainage Canal - Levee Construction - Louisiana State Master Plan (SMLD Altemative 1W)	Scott Canal - Flood Control Structure	Kelley Canal - Flood Control Structure	Vacherie Canal - Flood Control Structure	Bayou Tirge Watershed/Flood Protection	Flood Control Structure at Boston Canal	Four Mile Canal Structure	Hebert Canal Watershed/Storm Protection	Protection Levee on the Marsh/Upland Interface	LA Hwy. 330 Hurricane Protection	Flood Control Structure at Oaks Canal	Freshwater Bayou Bank Stabilization	Utilization of Existing Oil Field Canals
*6,t (B20)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Ргодгат	A\N	A\N	∀/N	A\N	A\N	A\N	A\N	A\N	∀/N	A\N	A\N	A\N	A\N	A\N	∀/N	A\N

ing; Project Type: BI=Barrier Island; DM=Beneficial Use of Dredged Material; FD=Freshwater Diversion; HP=Hurricane Protection; HR=Hydrologic Restoration: INF=Infrastructure: LA=Land Acquisition: MC=Marsh Creation; MM=Marsh Management; OM=Ouffall Management; PA=Publich Access; PL=Planning; RR=Ridge Restoration; SD=Sediment Diversion; SNT=Sediment and Nutrient Trap SP=Shoreline Protection; VP=Vegetan Planning; MA=Vastewater Assimilation.

Parish: Asc.=Ascension, Asu =Assumption, Cat.=Calcasieu, Cam =Cameron, Ibe =Iberia, Jef =Lefferson, Laf =Lafourche, Liv =Livingston, Ont=Orteans, Plaq. =Plaquemines, SIB.=SI. Bernard, SIC.=SI. Charles, SLJa=SI. James, SLJo.=SI. John the Baptist, SIM.=SI. Mary, SIMt=SI. Martin, SIT.=SI. Tammany, Tan.=Tangipahoa, Ter.=Terrebonne, Ver.=Vermilion.

PARISH CONCEPTS FROM COASTAL MASTER PLANS

Jaleson .	and the second							
Γ	Calcasieu Ship Channel Salinity Control Measure Hydrologic Restoration	HR	25	47	Cam.	\$404,198,000	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.	4
	Cameron Creole Freshwater Introduction	HR	25	47	Cam.	\$12,482,434	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.	4
	Constriction of Sabine Lake at Hwy 82 Causeway	HR	25	47	Cam.	\$1,083,514	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.	4
	East Calcasieu Lake Hydrologic Restoration	HR	25	47	Cam.	\$5,495,089	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.	4
	East Calcasieu Lake Marsh Creation & Hydrologic Restoration (A)	ЯН	25	47	Cam.	Not provided	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.	4
	East Calcasieu Lake Marsh Creation & Hydrologic Restoration (B)	нк	25	47	Cam.	Not provided	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.	4
	First Bayou Freshwater Introduction	нк	25	47	Cam.	\$3,772,982	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.	4
	Gulf Intracoastal Water Way Calcasieu Locks Expansion	HR	25	47	Cam.	\$300,000,000	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.	4
ſ	Gum Cove Ridge Hydrologic Restoration	нк	25	47	Cam.	\$307,820,000	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.	4
	Maintain Sabine River Flows into Sabine Lake	HR	25	47	Cam.	Not provided	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.	4
CPCS10	Calcasieu Ship Channel Sediment By Pass	нк	25	47	Cam.	Not provided	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.	4
	Plug West Cove Canal	нк	25	47	Cam.	\$1,033,000	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.	4
CPCS53	Sabine River Hydrologic Restoration	ЯН	25	47	Cam.	\$47,768,000	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.	4
CPCS54	Salinity Reduction at Sabine Lake Causeway	HR	25	47	Cam.	Not provided	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.	4
CPCS59	Tripod Bayou Control Structure	HR	25	47	Cam.	Not provided	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.	4
CPME09	Humble Canal Hydrologic Restoration (Spillway)	HR	25	47	Cam.	\$3,878,982	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.	4
CPME10	Humble Canal Spillway	HR	25	47	Cam.	Not provided	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.	4
CPME11	Improved Drainage East Grand Chenier	нк	25	47	Cam.	\$5,000,000	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.	4
CPME12	Kings Bayou Hydrologic Restoration	нк	25	47	Cam.	\$1,200,000	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.	4
CPME14	Little Pecan Bayou Hydrologic Restoration	ЯН	25	47	Cam.	\$8,778,000	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.	4
CPME18	Mermentau River Hydrologic Restoration	нк	25	47	Cam.	\$76,040,000	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.	4
CPME20	Mermentau Spillway (Big Burn) Humble Canal	HR	25	47	Cam.	Not provided	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.	4
CPME21	Muria & Kings Bayou Drainage Improvements	HR	25	47	Cam.	\$1,281,040	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.	4
CPME23	Oak Grove Hydrologic Restoration	HR	25	47	Cam.	\$877,800	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.	4
CPME24	Reconditioning of East End Locks	ЯН	25	47	Cam.	\$20,000,000	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.	4
CPME27	Rockefeller Wildlife Refuge Spillway & Hwy 82 Modification	нк	25	47	Cam.	\$12,000,000	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.	4
CPME30	South Oak Grove Hydrologic Restoration	ЯН	25	47	Cam.	\$877,800	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.	4
CPME33	West Club Hydrologic Restoration	HR	25	47	Cam.	\$458,407	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.	4
CPME35	Woods Tract Hydrologic Restoration	ЯН	25	47	Cam.	\$219,450	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.	4
CPCS01	Beneficial Use of Dredge Spoil at Sabine National Wildlife Refuge	MC	25	47	Cam.	\$25,939,077	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.	4
CPCS02	Black Bayou Marsh Creation	MC	25	47	Cam.	\$1,189,934,181	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.	4
CPCS03	Black Bayou Terraces	MC	25	47	Cam.	\$8,532,094	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.	4
CPCS04	Black Bayou Terracing Project	SNT	25	47	Cam.	Not provided	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.	4
CPCS05	Black Lake Marsh Restoration	MC	25	47	Cam.	\$4,382,606	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.	4
CPCS06	Black Lake Restoration Project	Not Avail.	25	47	Cam.	Not provided	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.	4
CDCSOR								

PARISH CONCEPTS FROM COASTAL MASTER PLANS

^{×/R3} 07	Solution and the solution of t	*	Note Store	or or	Joh	*		
CPCS09	Calcasieu Ship Channel Marsh Creation	MC	25	47	Cam.	\$620,658,248	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.	4
CPCS15	Cameron Meadows Marsh Creation	MC	25	47	Cam.	\$774,465,811	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.	4
CPCS16	Cameron Meadows Wetland Restoration	MC	25	47	Cam.	\$2,580,279,941	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.	4
CPCS17	Central Canal Marsh Creation	MC	25	47	Cam.	\$893,862,252	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.	4
CPCS18	Commissary Point Marsh Creation	MC	25	47	Cam.	\$78,427,828	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.	4
CPCS21	East Calcasieu Lake Marsh Creation	MC	25	47	Cam.	\$3,477,117,831	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.	4
CPCS22	East Calcasieu Lake Marsh Creation	MC	25	47	Cam.	\$12,979,029	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.	4
CPCS23	East Calcasieu Lake Marsh Creation	MC	25	47	Cam.	\$8,847,120	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.	4
CPCS24	East Calcasieu Lake Marsh Creation	MC	25	47	Cam.	\$11,977,646	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.	4
CPCS23	East Calcasieu Lake Marsh Creation & Hydrologic Restoration	MC	55	47	Cam.	\$7,071,533	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.	4
CPCS24	East Cove Marsh Creation	MC	25	47	Cam.	\$13,832,088	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.	4
CPCS26	East Prong Grand Bayou Marsh Creation Project	MC	25	47	Cam.	\$26,566,711	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.	4
CPCS33	Gum Cove Marsh Creation	MC	25	47	Cam.	\$780,218,832	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.	4
CPCS37	Kelso Bayou Marsh Creation	MC	25	47	Cam.	\$12,040,467	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.	4
CPCS38	Lake Calcasieu Beneficial Use	MC	25	47	Cam.	\$24,007,981	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.	4
CPCS40	Marsh Creation in Calcasieu Lake - Beneficial Use	MC	25	47	Cam.	\$11,022,316	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.	4
CPCS41	Mud Lake Marsh Creation	MC	25	47	Cam.	\$918,359,223	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.	4
CPCS42	No Name Bayou Marsh Creation	MC	25	47	Cam.	\$39,478,302	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.	4
CPCS43	North Cameron Meadows Restoration	MC	25	47	Cam.	\$87,470,645	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.	4
CPCS44	North Mud Lake Marsh Creation & Nourishment	MC	25	47	Cam.	\$38,723,287	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.	4
CPCS45	North West Cove Marsh Creation & Nourishment	MC	25	47	Cam.	\$49,018,650	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.	4
CPCS46	North Willow Lake Restoration	MC	25	47	Cam.	\$13,063,672	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.	4
CPCS47	Northwest Calcasieu Lake (North of Hackberry) Marsh Creation	MC	25	47	Cam.	\$3,093,080,570	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.	4
CPCS47A	Northwest Calcasieu Lake (North of Hackberry) Component A Marsh Creation	MC	25	47	Cam.	\$904,215,130	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.	4
CPCS47B	Northwest Calcasieu Lake (North of Hackberry) Component B Marsh Creation	MC	25	47	Cam.	\$934,629,690	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.	4
CPCS47C	Northwest Calcasieu Lake (North of Hackberry) Component C Marsh Creation	MC	25	47	Cam.	\$1,274,052,035	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.	4
CPCS48	Northwest Calcasieu Lake (South of Hackberry) Marsh Creation	MC	25	47	Cam.	\$2,569,391,271	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.	4
CPCS48A	Northwest Calcasieu Lake (South of Hackberry) Component A Marsh Creation	MC	25	47	Cam.	\$1,136,005,097	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.	4
CPCS48B	Northwest Calcasieu Lake (South of Hackberry) Component B Marsh Creation	MC	25	47	Cam.	\$1,442,245,190	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.	4
CPCS50	Rabbit Island Marsh Creation	MC	25	47	Cam.	\$10,217,288	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.	4
CPCS51	Sabine Marsh Creation Browns Lake Area	MC	25	47	Cam.	Not provided	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.	4
CPCS52	Sabine Refuge Marsh Creation & Nourishment	MC	25	47	Cam.	\$53,031,969	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.	4
CPCS53	Sabine Refuge Marsh Creation Project Cycles 6 &7	MC	25	47	Cam.	\$22,051,574	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.	4
CPCS56	Southeast Calcasieu Lake Marsh Creation	MC	25	47	Cam.	\$1,783,258,033	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.	4
CPCS58	Sweet Lake Land & Oil Shoreline Protection & Marsh Creation	MC	25	47	Cam.	\$79,094,433	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.	4
CPCS59	Sweet Lake Marsh Creation	MC	75					

PARISH CONCEPTS FROM COASTAL MASTER PLANS

, de les	Jajote Root	~	*	\$	*	*		
	Vincent and Chinaberry Island Cameron Parish Marsh Creation	MC	25	47	Cam.	\$28,900,241	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.	4
	Vincent and Chinaberry Island Cameron Parish Marsh Creation	MC	25	47	Cam.	\$28,926,641	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.	4
	Vincent and Chinaberry Island Cameron Parish Marsh Creation	MC	25	47	Cam.	\$28,900,241	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.	4
	Vincent and Chinaberry Island Cameron Parish Marsh Creation	MC	25	47	Cam.	\$27,370,884	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.	4
-	West Cove Marsh Creation & Nourishment	MC	25	47	Cam.	\$31,851,587	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.	4
-	Chenier du Fond Restoration & Shoreline Protection	SP	25	47	Cam.	Not provided	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.	4
-	Lower Mud Lake Sediment Trapping	MC	25	47	Cam.	\$932,469	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.	4
1	Lower Mud Lake Terracing and Bankline Stabilization	SNT, BS	25	47	Cam.	Not provided	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.	4
(South Grand Chenier Marsh Creation	MC	25	47	Cam.	\$22,325,704	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.	4
1	South Grand Chenier Marsh Creation	MC	25	47	Cam.	\$1,717,512,928	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.	4
	Willow Cutoff Wetland Restoration	SP	25	47	Cam.	\$774,713	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.	4
1	Black Lake Shoreline Restoration	SP	25	47	Cam.	\$13,668,024	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.	4
	Calcasieu-Sabine Bank Stabilization	SP	25	47	Cam.	\$25,412,000	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.	4
	Calcasieu-Sabine Component A Shoreline Protection	SP	25	47	Cam.	\$31,998,068	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.	4
1	East Holly Beach Gulf Shoreline Protection	SP	25	47	Cam.	\$31,997,068	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.	4
1	East Sabine Lake Shoreline Protection	SP	25	47	Cam.	\$11,376,898	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.	4
r	Gulf Shoreline Protection (Calcasieu River to Freshwater Bayou)	SP	25	47	Cam.	\$452,469,592	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.	4
1	Mermentau Ship Channel Sediment By Pass	от	25	47	Cam.	Not provided	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.	4
	Gulf Shoreline Protection (Calcasieu River to Rockefeller)	SP	25	47	Cam.	\$338,507,025	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.	4
	Gulf Shoreline Protection (Calcasieu River to Lower Mud Lake)	SP	25	47	Cam.	\$173,457,789	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.	4
	Sweet Lake & Willow Lake North Shoreline Restoration	MC	25	47	Cam.	\$30,745,784	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.	4
	Chenier du Fond Restoration & Shoreline Protection	SP	25	47	Cam.	\$31,630,947	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.	4
1	GIWW at Amoco Bank Stabilization	SP	25	47	Cam.	\$1,354,393	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.	4
	Grand Lake Shoreline Protection	SP	25	47	Cam.	\$14,085,683	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.	4
	Grand Lake Shoreline Protection at Umbrella Bay and Lacassine Point	SP	25	47	Cam.	\$29,986,251	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.	4
	Lacassine Pool South Levee Protection	SP	25	47	Cam.	\$17,932,158	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.	4
	North Little Chenier Levee Protection	от	25	47	Cam.	Not provided	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.	4
	Rockefeller Gulf of Mexico Shoreline Stabilization, Joseph's Harbor East Project	SP	25	47	Cam.	\$19,564,190	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.	4
	Rockefeller Refuge Shoreline Protection	SP	25	47	Cam.	\$97,820,948	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.	4
	Southwest White Lake Shoreline Protection	SP	25	47	Cam.	\$21,077,340	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.	4
Г	I Instantia Davi Chanailine Duction							

Prolect Type: Bi=Barrier Island; DM=Beneficial Use of Dredged Material; FD=Freshwater Diversion; HP=Hurricane Protection; Parish: Asc.=Ascension, Asu.=Assumption, Cal.=Calcasieu, Cam.=Cameron, Ibe.=Iberia, Jef.=Jefferson, Laf.=Lafourche, Liv.=Livingston, Orl=Orleans, Management; Orl=Orleans, StB=Structure, Let_Land Acquisition; MC=Marsh Creation; MM=Marsh Management; OM=Outfall Plaq.=Plaquemines, StB=StB.=Marsh, StD=St. James, StD=St. James, StD=St. James, StD=St. James, StD=St. James, StD=St. John the Baptist, StM=St. Mary, StMt=St. Mary, StMt=St. Tammany, Diversion; SNT=Sediment Trapping; SP=Shoreline Protection; TE=Terraces; VP=VBegetation Planting; TRandopa, Ter.=Tangipahoa, Ter.=Terrabonne, Ver.=Vermilion

Appendix E Projects

C. Restoration

Page intentionally left blank

Inventory of Non-State

Partnership Projects

Year	Project	Partner	Award	Match
FY2008	Black Lake/West Hackberry Terracing	Ducks Unlimited, Inc	\$2,000,000	\$2,110,000
FY2010	Westwego WHARF	Trust for Public Land	\$1,025,000	\$1,250,000
FY2010	Calcasieu-Sabine Watershed Restoration	Ducks Unlimited, Inc	\$1,780,805	\$1,195,290
FY2010	Christian Marsh Terraces	Coalition to Restore Coastal Louisiana	\$454,720	\$298,000
FY2010	10,000 Trees for Louisiana	Coalition to Restore Coastal Louisiana	\$84,475	\$335,790
FY2010	Terrebonne Vegetative Plantings	Terrebonne Parish	\$11,833	\$130,000
FY2010	N. Lake Mechant Landbridge completion	Conoco Phillips	\$30,000	\$5,000
FY2012	LaBranche Wetlands Hydrologic Restoration	Coalition to Restore Coastal Louisiana	\$350,000	\$330,000
FY2012	Reforesting 50 acres with Superior Bald cypress	Restore The Earth Foundation	\$100,000	\$540,000
FY2012	St. Louis Canal Freshwater Introduction Project	Ducks Unlimited, Inc	\$550,000	\$800,000
FY2013	Biloxi Marsh Oyster Reef Restoration Project	The Nature Conservancy	\$400,000	\$159,300
FY2013	Establishment of Bald cypressWater Tupelo Nurseries for Restoration of Forested Wetlands and for Protection of Flood Control Levees in Coastal Louisiana	Comite Resources	\$100,000	\$50,000
FY2013	Carencro Bayou Freshwater Introduction	Ducks Unlimited, Inc	\$500,000	\$560,537
FY2014	Restoration and Refurbishment of the Grand Chenier Marshes	Miami Corporation and Cameron Gravity Drainage District #5	\$75,000	\$220,000
FY2014	Golden Meadow Marsh Creation	Ducks Unlimited, Inc	\$480,000	\$600,000
FY2014	Planting Bald cypress for Forested Wetland Restoration at East Tchefuncte Marsh Assimilation Wetland	City of Mandeville	\$25,000	\$25,000
FY2014	Coastal Forest and Ridge Restoration Planting Project	Coalition to Restore Coastal Louisiana	\$80,000	\$296,264
FY2014	Biloxi Marsh Community-based Oyster Reef Restoration Project	TNC and CRCL	\$352,432	\$210,696
FY 2015	Mud Lake Area Terraces	Apache Louisiana Minerals	\$150,000	\$150,000
FY 2015	Golden Meadow Marsh Creation, Phase II	Ducks Unlimited, Inc	\$385,000	\$600,000
FY 2015	W-15 Beneficial Use Marsh Creation Project	St. Tammany Parish Government	\$400,000	\$244,000
FY 2015	Freshwater Bayou Volunteer-Based Marsh Restoration Project	Coalition to Restore Coastal Louisiana	\$65,000	\$78,664
FY 2016	Mud Lake Area Terraces, Phase II	Apache Louisiana Minerals	\$100,000	\$100,000
FY 2016	Oyster Bed Surge Protection System	Terrebonne Parish	\$500,000	\$2,100,000
FY 2016	Calcasieu Lake & Sabine national wildlife refuge- oyster reef restoration project	The Nature Conservancy	\$300,000	\$200,000
FY 2016	Coastal Forest Restoration Project	Coalition to Restore Coastal Louisiana	\$100,000	\$327,648
		TOTAL	\$10,399,265	\$12,916,189

Page intentionally left blank

Appendix F

Page intentionally left blank

CPRA FY 2019 Capital Outlay Requests

Agency	Q		Project Request Title	Funding Source	(Year 1)	(Year 2)	(Year 3)	(Year 4)	(Year 5)	Total by Project
Friority	Friority	Number			FY2019	FY2020	FY2021	FY2022	Outlying Years	
				IAT	\$150,000					\$150,000
1 2.1 1	1 26 1	001	ADD A Descision	FED	\$55,250,000					\$55,250,000
1 01 14		107	CENAFIOJECIS	NRR STAT DED	\$93,000,000					\$93,000,000
			·	CPR STAT DED	\$211,522,500					\$211,522,500
2 of 14	2 of 14	109	West Bank and Vicinity , New Orleans, LA Hurricane Protection (BA-66)	GO Bonds	0\$	\$49,857,025	\$49,857,025	\$49,857,025	\$1,346,139,675	\$1,495,710,750
3 of 14	3 of 14	109	Lake Pontchartrain, LA & Vicinity Hurricane Protection Project (PO-63)	GO Bonds	0\$	\$48,575,094	\$48,575,094	\$48,575,094	\$1,311,527,538	\$1,457,252,820
4 of 14	4 of 14	109	St. Mary Backwater Flooding Protection (AT-024)	GO Bonds	\$11,200,000	\$15,000,000	\$4,800,000	\$0	\$0	\$31,000,000
5 of 14	5 of 14	110	Grand Isle Levee Dune Enhancement Project (BA-198)	GO Bonds	\$2,000,000	\$9,100,000	\$3,900,000	\$0	\$0	\$15,000,000
6 of 14	6 of 14	109	Lafitte Area Tidal Protection (BA-75)	GO Bonds	\$12,000,000	\$10,000,000	80	\$0	\$0	\$22,000,000
7 of 14	7 of 14	109	Western St. Charles Flood Protection	GO Bonds	\$4,500,000	\$3,000,000	\$10,000,000	\$10,000,000	\$10,000,000	\$37,500,000
8 of 14	8 of 14	109	West Shore, Lake Pontchartrain, Louisiana Hurricane Protection Project (PO-62)	GO Bonds	\$1,625,000	\$1,000,000	\$13,279,500	\$13,279,500	\$222,148,000	\$251,332,000
9 of 14	9 of 14	109	Southwest Coastal Louisiana Project (LA-20)	GO Bonds	\$1,050,000	\$17,500,000	\$17,500,000	\$17,500,000	\$1,133,340,600	\$1,186,890,600
10 of 14	10 of 14	109	Lockport to Larose Hurricane Protection Levee	GO Bonds	\$5,000,000	\$10,000,000	\$20,000,000	\$20,000,000	\$20,000,000	\$75,000,000
11 of 14	11 of 14	109	Morganza, LA to the Gulf of Mexico Hurricane Protection Project $[\rm GO\ Bonds\ (TE-64)$	GO Bonds	\$53,000,000	\$40,000,000	\$40,000,000	\$40,000,000	\$40,000,000	\$213,000,000
12 of 14	12 of 14	109	North Shore, Lake Pontchartrain Flood Protection (PO-167)	GO Bonds	\$5,000,000	\$0	80	\$0	\$0	\$5,000,000
13 of 14	13 of 14	109	South Central Coastal Plan (TV-54)	GO Bonds	\$30,000,000	\$25,000,000	\$25,000,000	\$25,000,000	\$30,667,279	\$135,667,279
14 of 14	14 of 14	109	Delcambre-Avery Canal Storm Surge Protection (TV-57)	GO Bonds	\$2,500,000	\$25,000,000	\$8,000,000	\$0	\$0	\$35,500,000
										Ī
				TOTALS:	\$487,797,500	\$254,032,119	\$240,911,619	\$224,211,619	\$4,113,823,092	\$5,320,775,949

STATE OF LOUISIANA DIVISION OF ADMINISTRATION FACILITY PLANNING AND CONTROL State Agency E-Corts Priority List for Fiscal Year 2019

Page intentionally left blank





Coastal Protection and Restoration Authority 150 Terrace Avenue Baton Rouge, LA 70802 Connect With Us! @LouisianaCPRA 0

 \bowtie

Email: Coastal@la.gov Phone:225.342.7308

In



~~