

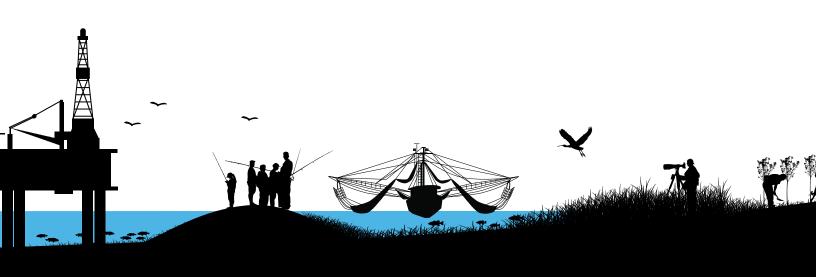
DRAFT

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

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State of Louisiana



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



Purpose of the Annual Plan

Origin 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, both in March 2012 and April 2017.

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 and budgets.*

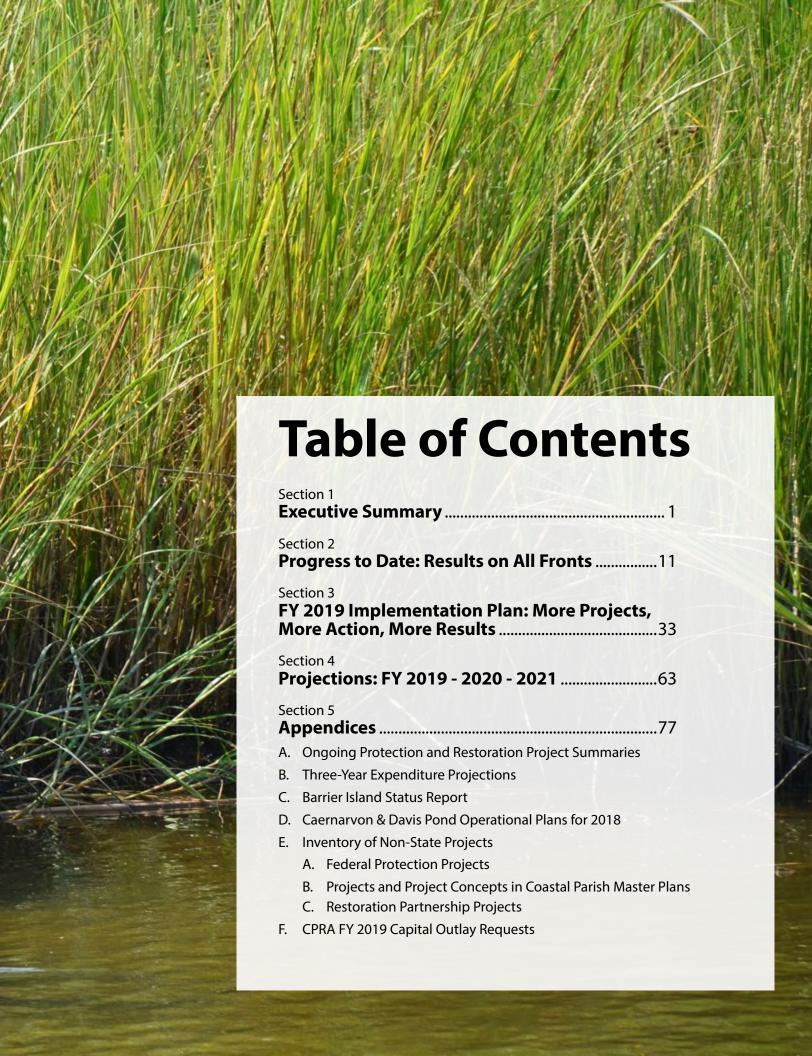
Evolution of the Annual Plan

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."





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Section 1

Executive Summary

Accomplishments and Notable Projects

Some accomplishments and notable projects completed or in construction in Fiscal Year 2018 include:

- 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
 open water areas.
- **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.

- 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 Plaquemines Parish to restore 5,000 feet of historic ridge backed by a marsh platform approximately 450-foot 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.

- 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 floodgates.
- **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.
- Lafitte Area Levee Repair (BA-0082): Repairing damage to the earthen levees/banks along Bayou Barataria in the Lafitte area using available rock material donated by BP.
- 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 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-0067 New Orleans to Venice
- BA-0085 St Charles West Bank Hurricane Protection 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
- BA-0066 West Bank and Vicinity
- TE-0064 Morganza to the Gulf
- P0-0057 SELA
- BA-0125 Northwest Turtle Bay Marsh Creation

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 www.coastal.la.gov.

▶ Table ES-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	\$14,746,774	TBD	TBD	\$14,746,774
GOMESA ^{1,3}	\$70,000,000	\$70,000,000	\$70,000,000	\$210,000,000
GOMESA Carried Forward ⁴	\$65,190,150	\$87,679,870	\$49,630,813	\$202,500,834
DOTD Interagency Transfer ¹	\$4,000,000	\$4,000,000	\$4,000,000	\$12,000,000
CWPPRA Federal Funds ⁵	\$74,630,825	\$76,289,212	\$76,493,168	\$227,413,206
Surplus '07, '08, '09 Carried Forward	\$124,533,205	\$17,847,474	\$14,189,960	\$156,570,639
Community Development Block Grants	\$4,545,928	\$692,388	\$0	\$5,238,316
Capital Outlay Funds (Previously Appropriated)	\$8,705,000	TBD	TBD	\$8,705,000
NRDA Revenues (Deepwater Horizon)	\$94,045,087	\$435,363,012	\$342,989,562	\$872,397,660
NFWF Revenues (Deepwater Horizon)	\$78,079,656	\$165,721,027	\$122,563,957	\$366,364,641
RESTORE Revenues (Deepwater Horizon)	\$43,748,005	\$55,894,004	\$178,434,962	\$278,076,970
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	\$27,759,800	\$15,619,145	\$13,160,767	\$56,539,712
LOSCO Funding ¹⁰	\$89,384	\$89,384	\$84,384	\$263,152
Project Billing ¹¹	\$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	\$649,510,313	\$1,064,808,885	\$1,007,686,722	\$2,722,005,920

Notes

- 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.
- 9. 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.
- $10. \quad \text{Represents reimbursement of expenditures for CPRA (non-DWH) oil spill response activities.} \\$
- 11. Represents salary and other work-in-kind reimbursements for work performed on projects in funding programs listed in the table above.

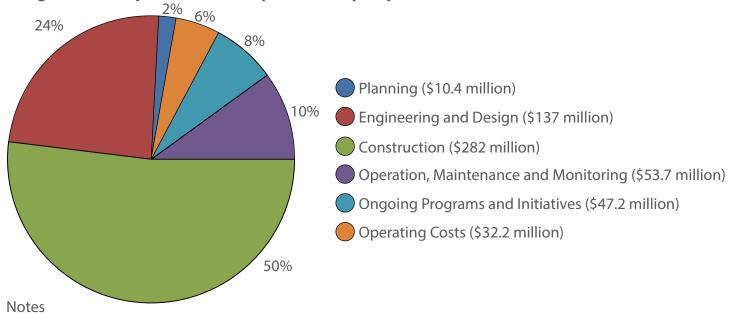
▶ Table ES-2: Projected Three-Year Expenditures¹ (FY 2019 - FY 2020)

Program / Funding Source	FY 2019	FY 2020	FY 2021	Program Total (FY 2019- FY 2021)
CWPPRA State Expenditures (not including Surplus expenditures) ²	\$13,630,380	\$13,710,788	\$13,506,832	\$40,847,999
CWPPRA Federal Expenditures ³	\$74,630,825	\$76,289,212	\$76,493,168	\$227,413,206
WRDA Project Expenditures (not including Surplus expenditures)	\$0	\$0	\$0	\$0
Surplus Projects and Program Expenditures	\$124,533,205	\$17,847,474	\$14,189,960	\$156,570,639
Community Development Block Grants	\$4,545,928	\$692,388	\$0	\$5,238,316
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	\$8,705,000	TBD	TBD	\$8,705,000
State-Only Project Expenditures (Non-Surplus)	\$212,953	\$94,146	\$40,003	\$347,102
NRDA Expenditures (Deepwater Horizon)	\$94,045,087	\$435,363,012	\$342,989,562	\$872,397,660
NFWF Expenditures (<i>Deepwater Horizon</i>) (not including Surplus Expenditures)	\$78,079,656	\$165,721,027	\$122,563,957	\$366,364,641
RESTORE Expenditures (<i>Deepwater Horizon</i>) (not including Surplus Expenditures)	\$43,748,005	\$55,894,004	\$178,434,962	\$278,076,970
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)	\$10,434,118	\$5,789,759	\$5,069,363	\$21,293,240
OM&M-Federal Expenditures ⁷	\$27,759,800	\$15,619,145	\$13,160,767	\$56,539,712
GOMESA Expenditures	\$47,510,280	\$108,049,057	\$72,129,618	\$227,688,955
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	\$561,830,442	\$1,029,161,132	\$974,522,758	\$2,565,514,332

Notes

- 1. Represents proposed expenditures provided that commensurate level of funding is received.
- 2. Because CWPPRA projects compete for funding annually, CWPPRA expenditures as presented in Appendix B (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.
- 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.
- 4. Payback is based on current HSDRRS construction schedule; payback will not commence until completion of HSDRRS construction activities. According to current USACE estimates, payback 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).
- ${\bf 6.} \quad {\bf Supplemental\ funding\ to\ augment\ construction\ of\ project\ ME-0018}.$
- 7. 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.
- 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.

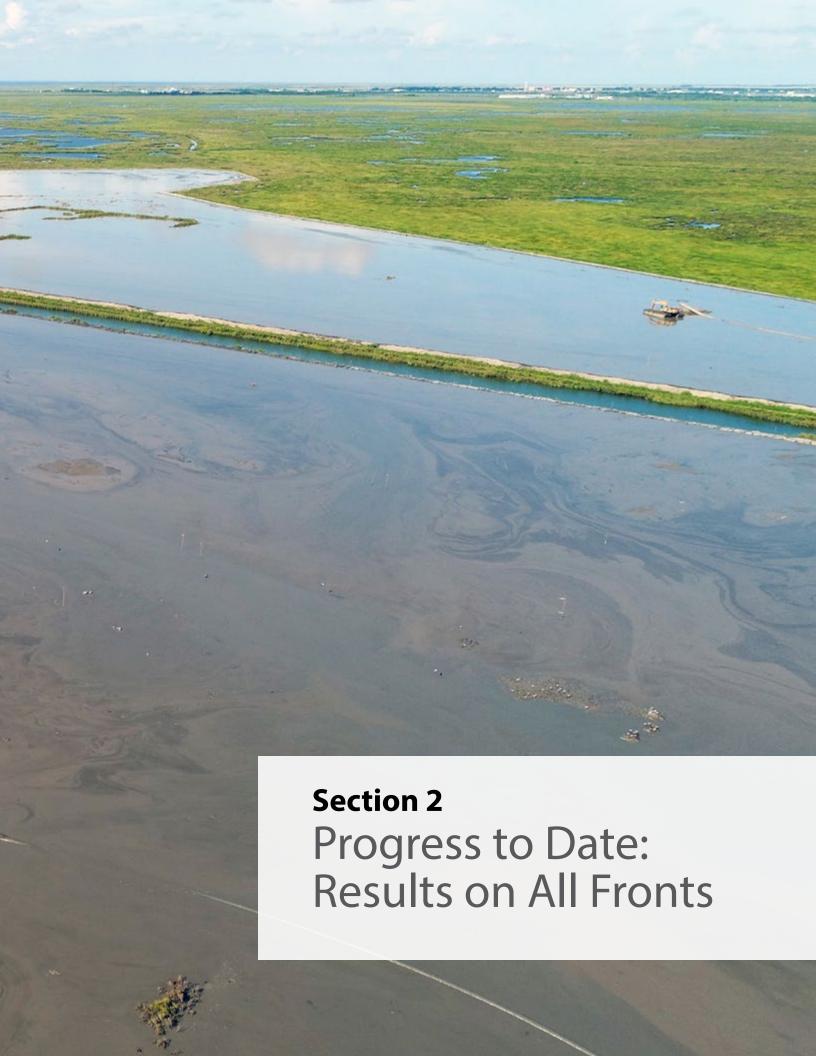
▶ Figure ES-1: Projected FY 2019 Expenditures by Project Phase



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

\$562 million





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Section 2

Progress to Date: Results on All Fronts

Project Highlights

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:

Oyster Bayou Marsh Creation and Terracing (CS-0059)

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 135-acre 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.



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.

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.

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.



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.

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.



Beach and dune construction on the eastern end of the island has also been extended to the west (top of the picture) where the creation of a back marsh now completes the transformation. Whiskey Island is located about 18 miles southwest of Cocodrie in Terrebonne Parish.

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.



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.

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 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.

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.



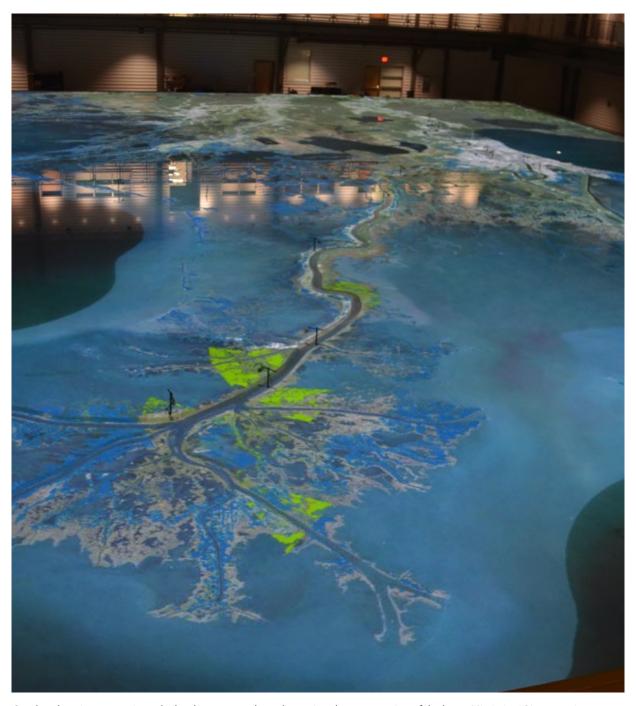
The LSU Center for River Studies

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 United States 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:

- 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 <u>www.coastal.la.gov</u> to learn more about this project and other coastal restoration efforts.
- Email us at coastal@la.gov to request a meeting.
- Follow CPRA on social media for relevant updates.

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



Proposed Mid-Barataria Sediment Diversion Project Layout



Sediment Diversion Conceptual Design

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 world-class 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

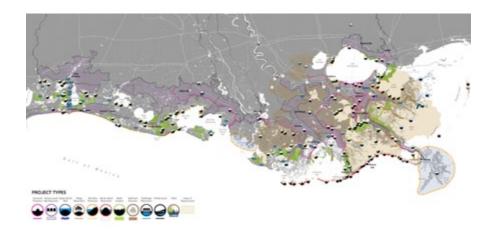
The 2017 Coastal Master Plan focuses on identifying and prioritizing high-performing projects that could be implemented over the next 10 years, while also planning for the next 50. The plan recommends a diversity of projects to build land and reduce storm-surge in order to balance short-term needs with 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.

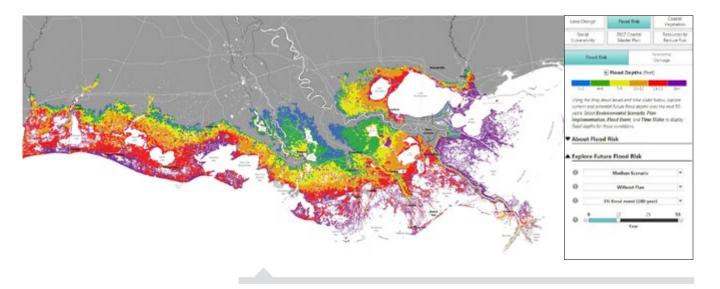
The 2017 Coastal Master Plan presents a more detailed path forward for nonstructural project recommendations, implementation procedures, and policy recommendations. In addition, CPRA also expanded outreach through the creation of a new, interactive web-based viewer to help residents better understand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

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 for site-specific decision making.

▶ 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	27-Mar-18	\$6,470,448	
BA-0125	Northwest Turtle Bay Marsh Creation	15-May-18	23-Oct-19	\$31,083,470	
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	\$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	2-May-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	\$11,305,616	
PO-0104	Bayou Bonfouca Marsh Creation	28-Apr-16	12-Jan-18	\$29,273,984	
TE-0072	Lost Lake Marsh Creation and Hydrologic Restoration	07-Sep-16	30-Aug-18	\$35,876,728	
TV-0063	Cole's Bayou Marsh Restoration	15-Dec-17	5-Apr-19	\$24,930,426	
CIAP Projects	i de la companya de				
PO-0148	Living Shoreline ²	02-Oct-15	7-Aug-17	\$14,300,000	
State-Only Pr	rojects				
BA-0075-1	Jean Lafitte Tidal Protection	19-Feb-14	25-Jun-19	\$29,403,973	
BA-0085	St. Charles West Bank Hurricane Protection Levee	01-Nov-13	1-Sep-22	\$14,500,000	
BA-0169	Kraemer Bayou Boeuf Levee Lift	17-Jun-17	9-Apr-18	\$1,200,000	
PO-0170	Violet Canal North Levee Alignment	14-Nov-17	17-Sep-18	\$1,164,000	
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	9-Apr-19	\$10,394,609	
TV-0055	Morgan City/St. Mary Flood Protection	20-Oct-16	18-May-18	\$10,900,000	
CDBG Project	ts				
BA-0082	Lafitte Area Levee Repair	20-Dec-17	21-Dec-18	\$819,185	
TE-0063	Falgout Canal Road Levee	05-Aug-15	29-Dec-17	\$24,803,191	
TE-0078	Cut-Off/Pointe Aux Chene Levee	25-Aug-17	19-Nov-19	\$9,714,158	

▶ 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				
HSDRRS Pro	jects							
BA-0066	West Bank and Vicinity	27-Mar-07	13-Feb-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	25-Oct-19	\$126,000,000				
BA-0154	Previously Authorized Mitigation WBV ³	04-Aug-14	31-Oct-18	\$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 ⁴	11-Mar-13	31-Dec-17	\$614,800,000				
PO-0121	HSDRRS Mitigation- LPV ⁴	23-Jul-15	3-Sep-19	\$85,000,000				
NRDA Early Restoration Projects								
BA-0111	Shell Island West	31-Mar-15	10-Jul-17	\$78,486,655				
TE-0100	Caillou Lake Headlands	22-Jul-15	11-Oct-18	\$118,340,766				
WRDA Proje	cts							
BA-0191	Spanish Pass Ridge and Marsh Restoration	15-Jul-16	30-May-18	\$18,111,516				
Notes								

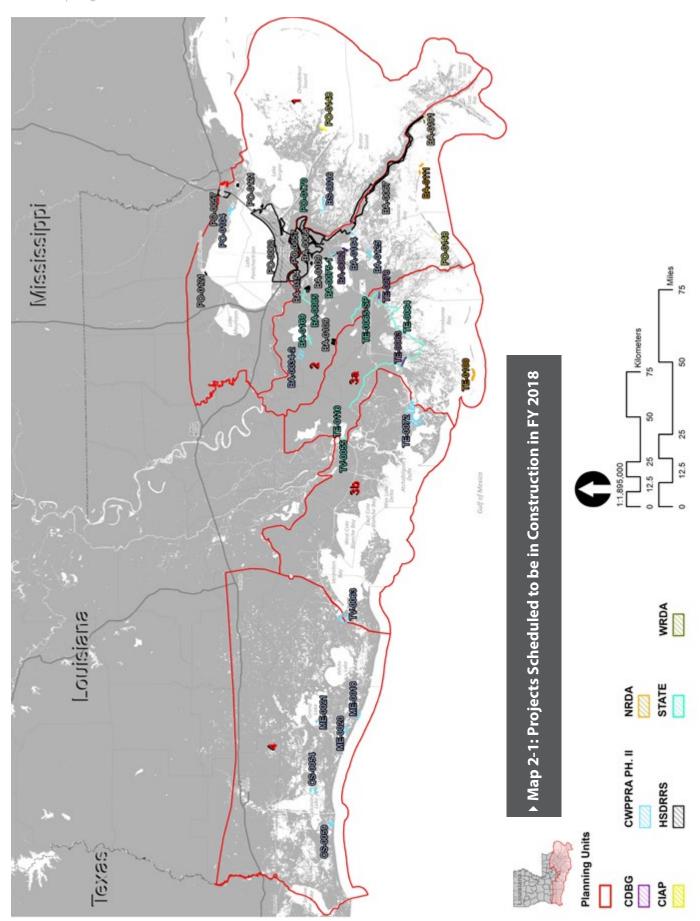
Note:

 $^{1. \}quad \text{Construction start date is defined as projected date for advertisement of construction bid notice; actual date of mobilization may vary.} \\$

^{2.} Project part ially funded with Surplus funds.

^{3.} Project cost included in total cost for BA-0066.

^{4.} Project cost included in total cost for PO-0063.



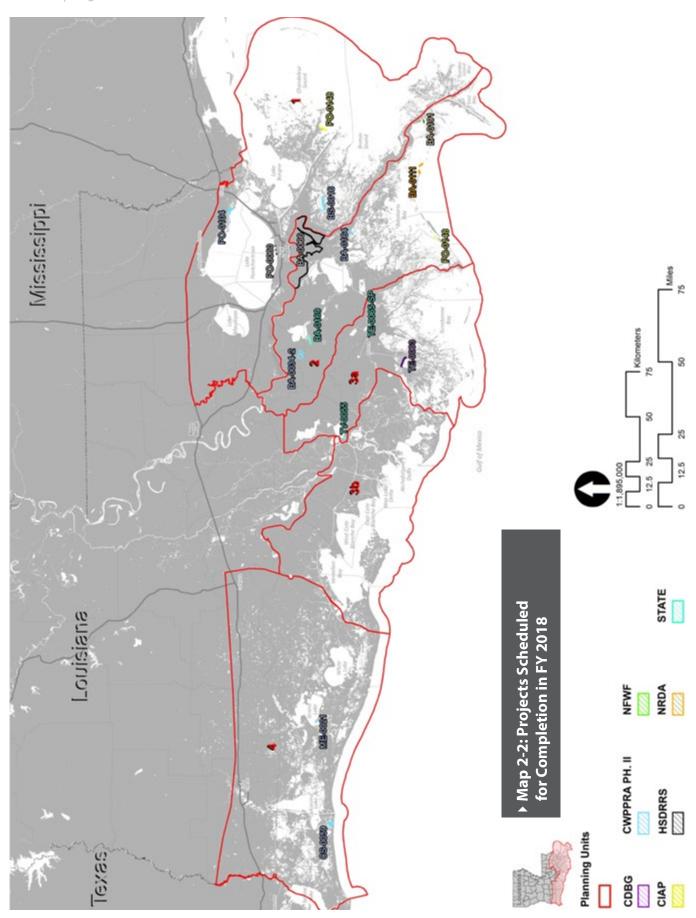
▶ Table 2-2: Projects Scheduled to Complete Construction in FY 2018

Project ID	Project Name	Construction Start Date ¹	Construction Finish Date	Total Project Estimate					
CWPPRA Pha	se II Projects								
BA-0034-2	Hydrologic Restoration and Vegetative Planting in the Des Allemands Swamp	27-Jun-17	27-Mar-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	\$11,305,616					
PO-0104	Bayou Bonfouca Marsh Creation	28-Apr-16	12-Jan-18	\$29,273,984					
CIAP Projects									
PO-0148	Living Shoreline ²	02-Oct-15	7-Aug-17	\$14,300,000					
State-Only P	rojects								
BA-0169	Kraemer Bayou Boeuf Levee Lift	17-Jun-17	9-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	18-May-18	\$10,900,000					
CDBG Project	ts								
TE-0063	Falgout Canal Road Levee	05-Aug-15	29-Dec-17	\$24,803,191					
HSDRRS Proj	ects								
BA-0066	West Bank and Vicinity	27-Mar-07	13-Feb-18	\$4,304,525,784					
PO-0060	Permanent Canal Closures and Pump Stations ⁴	11-Mar-13	31-Dec-17	\$614,800,000					
NRDA Early R	estoration Projects								
BA-0111	Shell Island West	31-Mar-15	10-Jul-17	\$78,486,655					
WRDA Projec	ts								
BA-0191	Spanish Pass Ridge and Marsh Restoration	15-Jul-16 30-May-18 \$18,111,516							
Notes									
Construction s	tart date is defined as projected date for advertisement of construction bid notice; actual date of n	nobilization may vary.							

^{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.

Section 2 | Progress to Date: Results on All Fronts



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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.

^oroject Status Summaries

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 non-project planning initiatives, represent a total state investment of \$10.4 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

There are 34 restoration projects in design for FY 2019. These projects represent a total state investment of \$137 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 23 projects that will begin or continue construction in FY 2019, including 10 protection projects and 13 restoration projects. These projects represent a total state investment of \$282 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.

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.

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 17 CWPPRA Phase 1 projects (engineering and design), eight 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 in-kind contribution determined to be appropriate by the lead Task Force member. Cost-share agreement conditions for CWPPRA projects vary according to the federal partner.

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.

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 seven state-only protection projects.

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

- 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-0054]); or
- 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:

- Terrebonne Basin Ridge and Marsh Creation Project: Bayou Terrebonne Increment (TE-0139)
- Barataria Basin Ridge and Marsh Creation Project: Spanish Pass Increment (BA-0203)
- Lake Borgne Marsh Creation Project: Increment One (PO-0180)
- Queen Bess Island Restoration Project (BA-0202)
- Rabbit Island Restoration Project (CS-0080)
- 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.

In December 2017, Louisiana released two additional restoration plans, a project-specific 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.

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 DWH 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 \$6,000,000
- Statewide Artificial Reef Enhancement \$6,000,000
- Lake Charles Science Center and Educational Complex \$7,000,000
- Pointe-aux-Chenes Island Road Fishing Piers \$3,000,000

The total funding proposed is \$22,000,000.

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."

The initial NFWF award funded the following projects:

- Adaptive Management: Louisiana River Diversions and Barrier Islands (\$13.2 M)
- Caminada Beach and Dune Increment II:
 - Engineering and Design (\$2.7 M)
 - Construction (\$144.5 M)
- East Timbalier Island: Engineering and Design (\$5.6 M)
- Mid-Barataria Sediment Diversion: Engineering and Design (\$37.7 M)
- Lower Mississippi River Sediment Diversions: Planning (\$12.8 M)
- Increase Atchafalaya Flow to Terrebonne: Planning (\$4.6 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)
- Mid Breton Sediment Diversion (Engineering and Design) (\$90.6 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)
- Mississippi River Sediment Diversion Program Management (\$16.1 M)

The next NFWF grant application cycle begins in March 2018.

Clean Water Act Penalties

The 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.

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, economic 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:

- 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)

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.

The Coastal Master Plan projects receiving funding include:

- Golden Triangle Marsh Creation Project (\$4.3 M; design)
- Mississippi River Reintroduction into Maurepas Swamp (\$14.2 M; design)
- Biloxi Marsh Living Shoreline Project (\$3.2 M; design)
- West Grand Terre Beach Nourishment and Stabilization Project (\$7.3 M; design)
- Lower Mississippi River Management Program (\$9.3 M; planning)

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.

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.

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
- Associated planning and administrative expenses (capped)

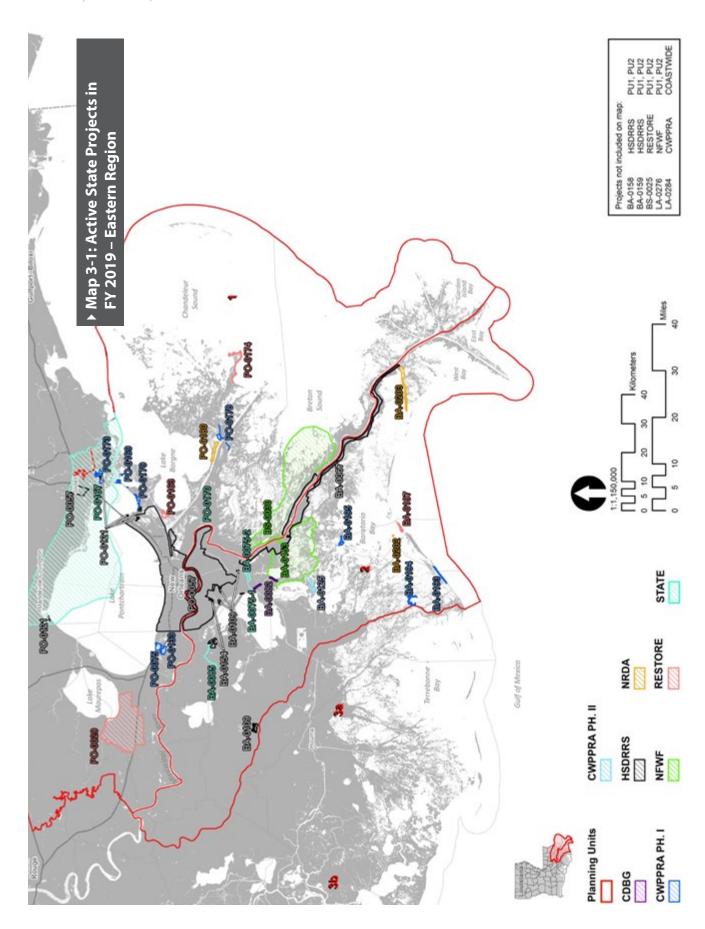
CPRA has been advised that the Phase II revenue sharing cap has not been met this year, and may also not be met in the coming three to five years. Based on this guidance, CPRA has established \$70 million as the annual expected GOMESA income level for the next three years and will reevaluate this decision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

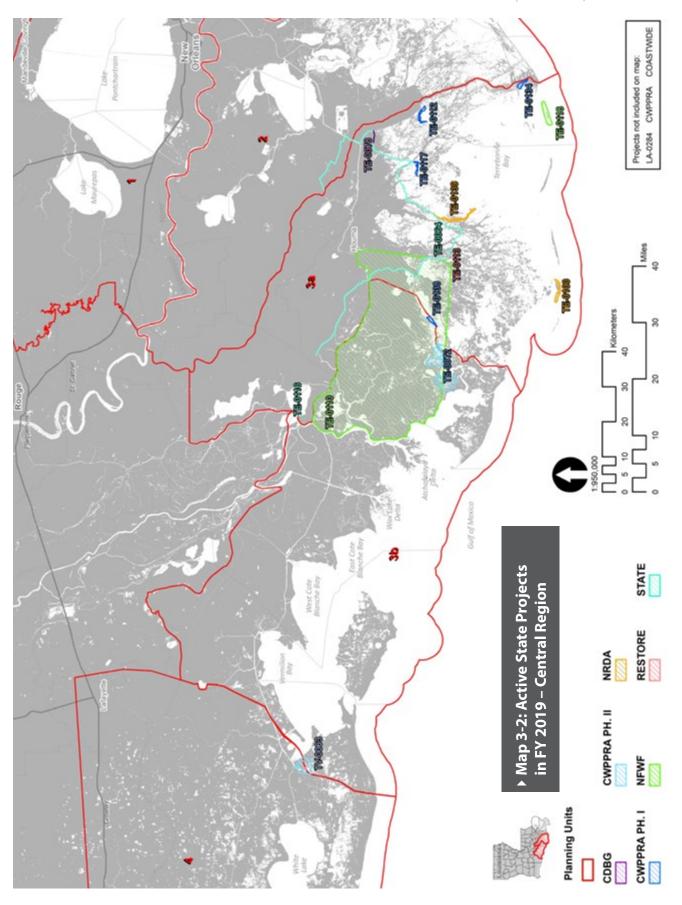
Because of the importance of this revenue stream and the uncertainty surrounding it, CPRA is partnering with Restore or Retreat to hire a team of economists and financial advisors for a large project which will include a reliable forecast for the GOMESA revenue stream. This information will be helpful 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.

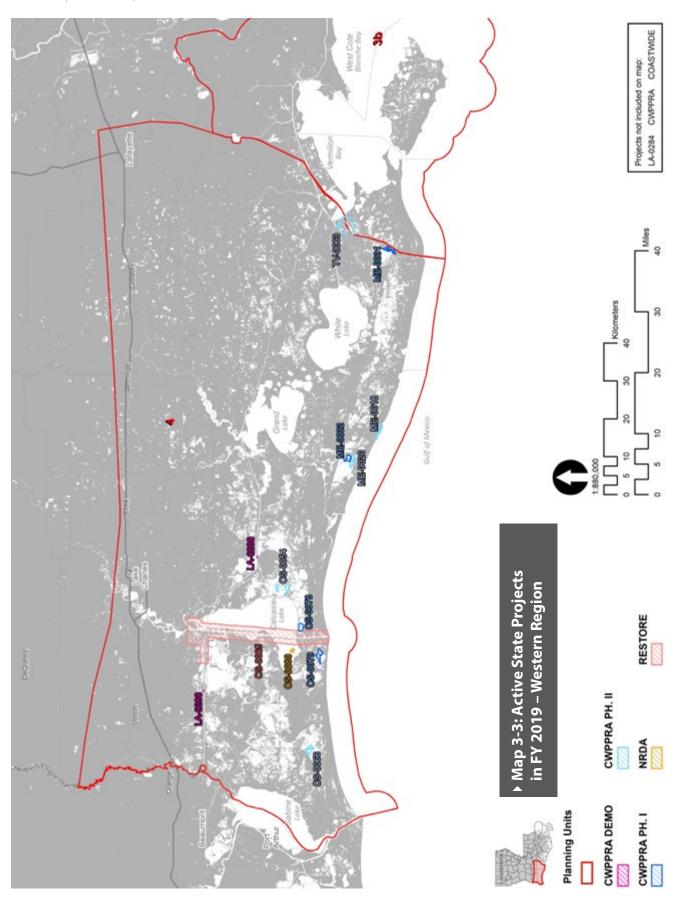
CPRA anticipates using GOMESA funds from the FY 2018 and FY 2019 allotments to fund implementation of the following projects (implementation will be led by the local parish or levee district):

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







▶ 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 Ph	ase II Projects							
BA-0125	Northwest Turtle Bay Marsh Creation	15-May-18	23-Oct-19	\$31,083,470				
CS-0054	Cameron-Creole Watershed Grand Bayou Marsh Creation	11-May-17	22-Oct-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	\$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	30-Aug-18	\$35,876,728				
TV-0063	Cole's Bayou Marsh Restoration	15-Dec-17	5-Apr-19	\$24,930,426				
State-Only F	Projects ²							
BA-0075-1	Jean Lafitte Tidal Protection	19-Feb-14	25-Jun-19	\$29,403,973				
BA-0075-2	Rosethorne Tidal Protection	16-Jul-18	23-Apr-20	\$22,950,000				
BA-0085	St. Charles West Bank Hurricane Protection Levee	01-Nov-13	1-Sep-22	\$14,500,000				
PO-0170	Violet Canal North Levee Alignment	14-Nov-17	17-Sep-18	\$1,164,000				
TE-0064	Morganza to the Gulf	30-Nov-05	1-Jun-20	\$177,003,835				
TE-0116	St. Mary Backwater Flooding	25-May-17	9-Apr-19	\$10,394,609				
CDBG Projec	cts							
BA-0082	Lafitte Area Levee Repair	20-Dec-17	21-Dec-18	\$819,185				
TE-0078	Cut-Off/Pointe Aux Chene Levee	25-Aug-17	19-Nov-19	\$9,714,158				
HSDRRS Pro	jects							
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	25-Oct-19	\$126,000,000				
BA-0154	Previously Authorized Mitigation WBV ³	04-Aug-14	31-Oct-18	\$11,000,000				
BA-0158	New Orleans to Venice Mitigation - Plaquemines Non-Fed	18-Feb-19	4-Jun-21	\$14,500,000				
BA-0159	New Orleans to Venice Mitigation - Fed	18-Feb-19	7-Jun-21	\$30,000,000				
PO-0057	SELA- Overall	18-Feb-09	12-Oct-20	\$1,170,974,586				
PO-0121	HSDRRS Mitigation- LPV⁴	23-Jul-15	3-Sep-19	\$85,000,000				
NRDA Early	Restoration Projects							
TE-0100	Caillou Lake Headlands	22-Jul-15	11-Oct-18	\$118,340,766				

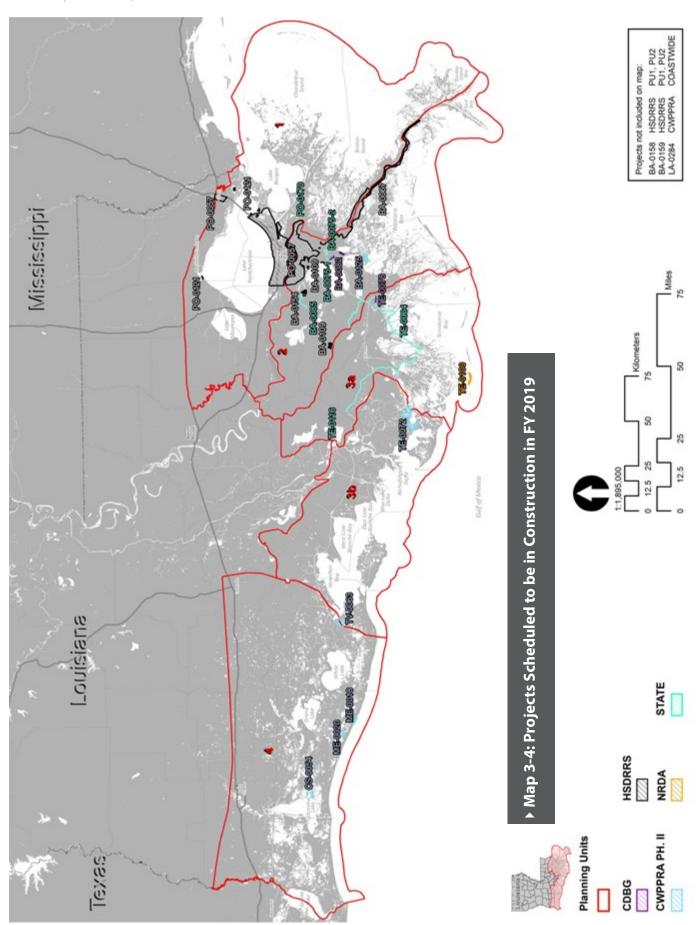
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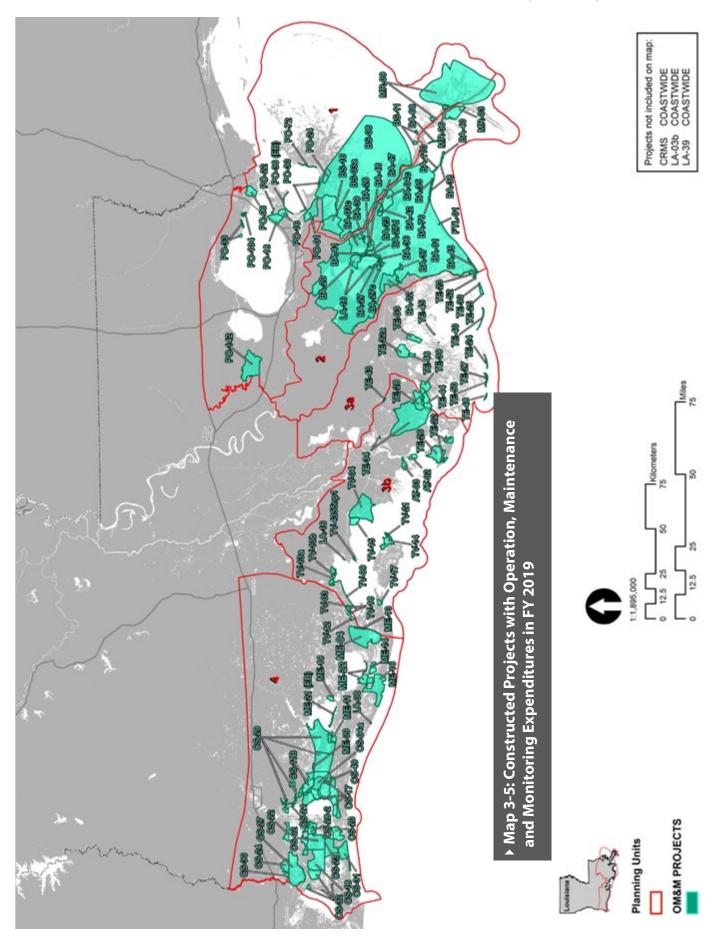
^{1.} Construction start date is defined as projected date for advertisement of construction bid notice; actual date of mobilization may vary.

^{2.} Project partially funded with Surplus funds.

^{3.} Project cost included in total cost for BA-0066.

 $^{4. \}quad \mbox{ Project cost included in total cost for PO0063}.$





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

Project ID	3-2: Projected Inree-Year Sched		CY 2018		Calendar Yr 2019			_	Calendar Yr 2020				CY 2021	
	Project Name	Federal Sponsor							3FQ	4FQ	1FQ	2FQ	3FQ 2021	4FQ 2021
CWPPRA Pha	ase I Projects					2013	LULU			2020	2021			
BA-0193	Caminada Headlands Back Barrier Marsh Creation Increment 2	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
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
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	D	D	D	D	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
TE-0112	North Catfish Lake Marsh Creation	NRCS	D	D	D	D	D	D	D	D	D	D	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-0171	Caminada Headland Back Barrier Marsh Creation	EPA	W	W	W	W	W	W	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
CS-0049	Cameron-Creole Freshwater Introduction	NRCS	W	W	W	W	W	W	W	W	W	W	W	W
PO-0034	Alligator Bend Marsh Restoration and Shoreline Protection	NRCS	W	W	W	W	W	W	W	W	W	W	W	W
PO-0168	Shell Beach South Marsh Creation ¹	EPA												
TE-0039- CU2	South Lake Decade Freshwater Introduction - CU2 ¹	NRCS												

		F. J	lawal.	CY 2	2018	Cal	enda	r Yr 2	019	Cal	endaı	r Yr 2	020	CY 2	2021
Project ID	Project Name	Spoi	leral nsor	1FQ 2019					2FQ 2020						4FQ 2021
CWPPRA Ph	nase II Projects														
BA-0125	Northwest Turtle Bay Marsh Creation	USF	-WS	С	С	С	С	С	F	0	0	0	0	0	0
CS-0054	Cameron-Creole Watershed Grand Bayou Marsh Creation	USF	-WS	С	F	0	0	0	0	0	0	0	0	0	0
CS-0066	Cameron Meadows Marsh Creation and Terracing	NO	DAA	D	D	D	D	D	В	С	С	С	С	F	0
LA-0284	Salvinia Weevil Propagation Facility	USF	-WS	С	С	С	F	0	0	0	0	0	0	0	0
ME-0018	Rockefeller Refuge Gulf Shoreline Stabilization	NO)AA	С	С	С	F	0	0	0	0	0	0	0	0
ME-0020	South Grand Chenier Marsh Creation Project	USF	-WS	С	С	С	С	F	0	0	0	0	0	0	0
TE-0072	Lost Lake Marsh Creation and Hydrologic Restoration	USF	WS	F	0	0	0	0	0	0	0	0	0	0	0
TV-0063	Cole's Bayou Marsh Restoration	NO)AA	O	С	С	F	0	0	0	0	0	0	0	0
Legend		Р	Feasib	ility &	Planr	ning			E	3	Both [Desigr	n & Co	nstru	tion
	ect currently on hold; schedule to be attention attention recommences.	D	Engine	eering	ј & De	sign			F	=	Constr	ructio	n Con	nplete	
References odn			Awaiti Impler			nal Fui	nding	for		I	Progra	ım lm	pleme	entatio	on
Re		С	Constr	uctio	n				(Opera Monit		Maint	tenan	ce, &

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

			_	امسمام	CY 2	2018	Cal	enda	r Yr 2	019	Cal	enda	r Yr 2	020	CY 2	2021
Pro	oject ID	Project Name		ederal ponsor										2FQ 2021		
LCA	Projec	ts														
PO-	0068	LCA Small Diversion at Convent / Blind River	r¹ (JSACE	W	W	W	W	W	W	W	W	W	W	W	W
MR-	-0016	Mississippi River Hydrodynamic and Delt Management Study ¹	ta (JSACE												
Oth	er WRD	OA Projects														
LA-(0020	Southwest Coastal Louisiana Feasibility Study ¹	.,2	JSACE	W	W	W	W	W	W	W	W	W	W	W	W
Leg	gend		Р	Feasib	ility &	Plann	ing			В	E	Both D	Design	& Cor	nstruc	tion
ses		ect currently on hold; schedule to be lated when implementation recommences.	D	Engine	eering	& Des	ign			F	(Constr	uction	n Com	plete	
References	2. Pro	ect partially funded by Surplus funds.	W	Awaiti Impler			al Fun	ding 1	for	ı	F	Progra	ım lmı	oleme	ntatio	n
Re			С	Constr	ructior	1				C		Opera Monito		Maint	enanc	e, &

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

	3-4: Projected Inree-Year Scho		deral		2018		enda		_		enda				2021
Project ID	Project Name	_	onsor				4FQ 2019								
State Surplu	s Projects														
BA-0075-1	Jean Lafitte Tidal Protection	ı	N/A	С	С	O	I.								
BA-0075-2	Rosethorne Tidal Protection	ı	N/A	С	С	O	С	С	С	С	F				
BA-0085	St. Charles West Bank Hurricane Protection Levee	ı	N/A	С	С	C	С	С	С	С	С	С	С	С	С
PO-0167	St. Tammany Parish Coastal Protection Study	ı	N/A	Р	Р	Р	Р	Р							
PO-0170	Violet Canal North Levee Alignment	ı	N/A	С	F										
TE-0064	Morganza to the Gulf	U:	SACE	С	С	С	С	С	С	F					
TE-0116	St. Mary Backwater Flooding	ı	N/A	С	С	С	F								
TV-0057	Delcambre-Avery Canal (E&D)	ſ	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												
TV-0067	Bayou Tigre Flood Control Project ¹	ı	N/A												
TV-0075	Bayou Tigre Flood Control Complex ¹	ı	N/A												
Legend		Р	Feasib	lity &	Plann	ing			В	E	Both D	esign	& Co	nstruc	tion
unda	ct currently on hold; schedule to be ted when implementation recommences.	D	Engine	ering	& Des	ign			F	C	Constr	uctio	n Com	plete	
References		W	Awaitii Impler			al Fun	ding	for	ı	F	Progra	m Im	oleme	entatio	n
Rei		С	Constr	uction	1				C		Opera Monito		Maint	enand	ce, &

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

		Fe	ederal	CY 2	018	Cal	enda	r Yr 2	019	Cal	enda	r Yr 2	020	CY 2	021
Project ID	Project Name		onsor											3FQ 2021	
BA-0082	Lafitte Area Levee Repair		HUD	С	F										
TE-0078	Cut-Off/Pointe Aux Chene Levee		HUD	С	С	С	С	С	F						
Legend			Feasibi	lity &	Plann	ing			В	E	Both D	esign	ı & Coı	nstruc	tion
es		D	Engine	ering	& Des	ign			F	(Constr	uctio	n Com	plete	
References		W	Awaitii Implen	_		al Fun	iding f	for	ı	F	Progra	m lm	pleme	ntatio	n
Re		С	Constr	uctior	l				C)	Opera Monito		Maint	enanc	e, &

▶ Table 3	3-6: Projected Three-Year Sch	nedu	ıles fo	r Ac	tive	HS	DRI	RS P	roje	ects	(FY	20	19 -	202	(1) ¹
		F	ederal	CY 2	2018	Cal	enda	r Yr 2	019	Cal	enda	r Yr 2	020	CY 2	2021
Project ID	Project Name		ponsor								4FQ 2020				
BA-0067	New Orleans to Venice ^{2,3}	ι	JSACE	С	С	С	С	С	С	С	С	С	С	С	С
BA-0109	HSDRRS Mitigation- WBV ^{2,3}	ι	JSACE	С	С	С	С	С	С	С	С	С	С	С	С
BA-0154	Previously Authorized Mitigation WBV ²	ί,3	JSACE	С	F										
BA-0158	New Orleans to Venice Mitigation - Plaquemines Non-Federal ^{2,3}	ι	JSACE	D	D	D	С	С	С	С	С	С	С	С	С
BA-0159	New Orleans to Venice Mitigation - Federal ²	.3 (JSACE	D	D	D	С	С	С	С	С	С	С	С	С
PO-0057	SELA- Overall ^{2,3}	ι	JSACE	С	С	С	С	С	С	С	С	С	F		
PO-0121	HSDRRS Mitigation- LPV2 ^{2,3}	ı	JSACE	С	С	С	С	F							
Legend		Р	Feasibi	lity &	Planni	ng			В	В	oth D	esign	& Cor	nstruc	tion
spons	A duties are the responsibility of the local or. July based on USACE estimates.	D	Engine	ering	& Des	ign			F	C	Constr	uctior	n Com	plete	
3. State	expenditures may be covered with Surplus tion for HSDRRS LERRDS.	W	Awaitir Implen	_		al Fun	ding f	or	1	P	rogra	m lmp	oleme	ntatio	n
č		C	Constri	uction					0	C	perat	ions, l	Maint	enanc	e, &

Construction

Monitoring

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

	2	Federal	CY 2	2018			r Yr 2			lenda			CY 2	
Project ID	Project Name	Sponsor		2FQ 2019						4FQ 2020		2FQ 2021		4FQ 2021
Deepwater Ho	rizon NRDA Projects													
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	W	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	W	W	W	W	W	W
BS-0030	Mid-Breton Sediment Diversion	N/A	D	D	D	D	D	D	D	D	D	D	W	W
LA-0276	Sediment Diversion Implementation and Program Management	N/A	1	1	1	ı	1	1	1	1	1	1	W	W
TE-0110	Increase Atchafalaya Flow to Eastern Terrebonne	N/A	D	D	D	D	D	D	D	D	D	D	D	D
TE-0118	East Timbalier Island Restoration	N/A	D	D	D	D	D	D	W	W	W	W	W	W
RESTORE Proje	cts													
BA-0197	West Grand Terre Beach Nourishment and Stabilization	N/A	D	D	D	D	D	D	D	W	W	W	W	W
BS-0025	Lower Mississippi River Management	N/A	Р	Р	Р	Р	Р	Р	Р	Р	Р	Р	Р	Р
CS-0065	Calcasieu Ship Channel Salinity Control Measures	N/A	D	D	D	D	D	D	D	D	D	W	W	W
PO-0029	Mississippi River Reintroduction into Maurepas Swamp	N/A	D	D	D	D	D	D	D	D	D	W	W	W
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	W	W	W	W	W	W	W	W
N/A	Parish Matching Program	N/A	-1	-1	I	I	1	I	1	1	I	1	1	-1
Legend	F	Feasib	lity & F	Planni	ng			В	В	oth D	esign	& Con	struct	ion
	0	Engine	ering 8	& Desi	gn			F	c	Constru	uction	Com	olete	
	v	Awaitii Impler			al Fund	ding f	or	1	Р	rograi	n Imp	lemer	ntation	n
		Constr	uction					0		perat Ionito		Mainte	nance	e, &

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Section 4

Projections: Fiscal Years 2019 – 2020 – 2021

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 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.

Sources of Coastal Funding

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:

- 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 several years.
- 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 non-state 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 "Financing Louisiana's Future"

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. 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 Summit

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. 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.

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.

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. 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. A "Statements of Interests and Qualifications" was advertised by the Committee, to which ten teams submitted proposals, representative of 35 experts from all parts of the financial world.

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 https://doa.la.gov/osr/lac/43v29/43v29.doc.

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▶ 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	\$14,746,774	TBD	TBD	\$14,746,774
GOMESA ^{1,3}	\$70,000,000	\$70,000,000	\$70,000,000	\$210,000,000
GOMESA Carried Forward ⁴	\$65,190,150	\$87,679,870	\$49,630,813	\$202,500,834
DOTD Interagency Transfer ¹	\$4,000,000	\$4,000,000	\$4,000,000	\$12,000,000
CWPPRA Federal Funds ⁵	\$74,630,825	\$76,289,212	\$76,493,168	\$227,413,206
Surplus '07, '08, '09 Carried Forward	\$124,533,205	\$17,847,474	\$14,189,960	\$156,570,639
Community Development Block Grants	\$4,545,928	\$692,388	\$0	\$5,238,316
Capital Outlay Funds (Previously Appropriated)	\$8,705,000	TBD	TBD	\$8,705,000
NRDA Revenues (Deepwater Horizon)	\$94,045,087	\$435,363,012	\$342,989,562	\$872,397,660
NFWF Revenues (Deepwater Horizon)	\$78,079,656	\$165,721,027	\$122,563,957	\$366,364,641
RESTORE Revenues (Deepwater Horizon)	\$43,748,005	\$55,894,004	\$178,434,962	\$278,076,970
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	\$27,759,800	\$15,619,145	\$13,160,767	\$56,539,712
LOSCO Funding ¹⁰	\$89,384	\$89,384	\$84,384	\$263,152
Project Billing ¹¹	\$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	\$649,510,313	\$1,064,808,885	\$1,007,686,722	\$2,722,005,920

Notes

- 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.
- 2. 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.
- 10. Represents reimbursement of expenditures for CPRA (non-DWH) oil spill response activities.
- 11. 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 Expenditures¹ (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	\$13,630,380	\$13,710,788	\$13,506,832	\$40,847,999
CWPPRA Federal Expenditures ³	\$74,630,825	\$76,289,212	\$76,493,168	\$227,413,206
WRDA Project Expenditures (not including Surplus expenditures)	\$0	\$0	\$0	\$0
Surplus Projects and Program Expenditures	\$124,533,205	\$17,847,474	\$14,189,960	\$156,570,639
Community Development Block Grants	\$4,545,928	\$692,388	\$0	\$5,238,316
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	\$8,705,000	TBD	TBD	\$8,705,000
State-Only Project Expenditures (Non-Surplus)	\$212,953	\$94,146	\$40,003	\$347,102
NRDA Expenditures (Deepwater Horizon)	\$94,045,087	\$435,363,012	\$342,989,562	\$872,397,660
NFWF Expenditures (<i>Deepwater Horizon</i>) (not including Surplus Expenditures)	\$78,079,656	\$165,721,027	\$122,563,957	\$366,364,641
RESTORE Expenditures (<i>Deepwater Horizon</i>) (not including Surplus Expenditures)	\$43,748,005	\$55,894,004	\$178,434,962	\$278,076,970
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)	\$10,434,118	\$5,789,759	\$5,069,363	\$21,293,240
OM&M-Federal Expenditures ⁷	\$27,759,800	\$15,619,145	\$13,160,767	\$56,539,712
GOMESA Expenditures	\$47,510,280	\$108,049,057	\$72,129,618	\$227,688,955
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	\$561,830,442	\$1,029,161,132	\$974,522,758	\$2,565,514,332

Notes:

- $1. \quad \text{Represents proposed expenditures provided that commensurate level of funding is received.} \\$
- Because CWPPRA projects compete for funding annually, CWPPRA expenditures as presented in Appendix B (which include projected expenditures for approved projects only)
 do not 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.
- 4. Payback is based on current HSDRRS construction schedule; payback will not commence until completion of HSDRRS construction activities. According to current USACE estimates, payback will commence in September 2019 with an estimated annual payment of \$98 million.
- 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. 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.
- 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.

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

Program ID	Program Name	FY 2019	FY 2020	FY 2021	Program Total (FY 2019 - FY 2021)
Ongoing Prog	gram 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	\$2,904,804	TBD	TBD	\$2,904,804
N/A	Vegetative Plantings	\$400,000	\$400,000	\$400,000	\$1,200,000
PO-0162	Assistance to Levee Authorities	\$1,000,000	\$1,000,000	\$1,000,000	\$3,000,000
LA-0028	Restoration Partnerships	\$1,000,000	\$1,000,000	\$1,000,000	\$3,000,000
N/A	Project Support	\$3,500,000	\$3,500,000	\$3,500,000	\$10,500,000
Total Ongoing	Programs Expenditures	\$10,804,804	\$7,900,000	\$7,900,000	\$26,604,804
Adaptive Mar	nagement Expenditures				
Future Project	Development				
LA-0255	Project Development and Implementation Program	\$250,000	\$250,000	\$250,000	\$750,000
LA-0025	Innovative Programs	\$150,000	\$150,000	\$150,000	\$450,000
LA-0261	Non-structural Program Development ¹	\$1,000,000	\$1,000,000	\$1,000,000	\$3,000,000
Focused Appli	ed Research				
LA-0158	Coastal Science Assistantship Program ²	\$235,000	\$235,000	\$335,000	\$805,000
Science and Te	echnical Advisory Boards				
LA-0260	Master Plan Advisory Committees ²	\$0	\$300,000	\$300,000	\$600,000
Model Develop	pment and Refinement				
LA-0250	Master Plan Predictive Models ²	\$2,500,000	\$3,500,000	\$4,000,000	\$10,000,000
MR-0016-SSPM	Small Scale Physical Model ³	\$500,000	\$500,000	\$500,000	\$1,500,000
System Wide A	Assessment and Monitoring Program (SWAMP)				
LA-0252	SWAMP Development ⁴	\$0	\$0	\$0	\$0
N/A	Fisheries ⁵	\$7,500,000	\$7,800,000	\$8,000,000	\$23,300,000
N/A	SWAMP Implementation ^{3,4,5}	\$11,800,000	\$16,280,000	\$16,280,000	\$44,360,000
LA-0226	Barrier Island Comprehensive Monitoring ³	\$735,300	\$1,927,159	\$765,659	\$3,428,118
LA-0030	CRMS-Wetlands	\$1,250,000	\$1,250,000	\$1,250,000	\$3,750,000
N/A	Regional Geology and Sediment Management ⁴	\$830,000	\$830,000	\$830,000	\$2,490,000
Data Managen	nent and Analysis				
LA-0258	Data Management ⁴	\$2,400,000	\$2,400,000	\$2,400,000	\$7,200,000
LA-0254	Monitoring Data Interpretations ^{3,4,5}	\$1,050,000	\$1,050,000	\$1,050,000	\$3,150,000
Communication	on and Messaging				
N/A	Workshop and Conference Development	\$150,000	\$150,000	\$150,000	\$450,000
N/A	Language Access	\$25,000	\$25,000	\$25,000	\$75,000
LA-0249	Coastal Education	\$600,000	\$600,000	\$600,000	\$1,800,000
Total Adaptive	Management Expenditures	\$30,975,300	\$38,247,159	\$37,885,659	\$107,108,118

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

Program ID Program Name	FY 2019	FY 2020	FY 2021	Program Total (FY 2019 - FY 2021)
TOTAL Programmatic Expenditures	\$41,780,104	\$46,147,159	\$45,785,659	\$133,712,922
Programmatic Surplus Expenditures (See Table B-5)	\$5,193,990	\$151,047	\$0	\$5,345,037
Programmatic NRDA Expenditures (See Table B-14)	\$12,250,000	\$14,258,475	\$14,458,475	\$40,966,949
Programmatic NFWF Expenditures (See Table B-14)	\$6,860,300	\$10,016,905	\$8,855,405	\$25,732,610
Programmatic RESTORE Expenditures (See Table B-14)	\$5,705,000	\$6,511,780	\$6,511,780	\$18,728,559
Programmatic GOMESA Expenditures	\$2,735,000	\$4,035,000	\$4,635,000	\$11,405,000
Programmatic Operations Expenditures	\$9,035,814	\$11,173,953	\$11,325,000	\$31,534,767
N				

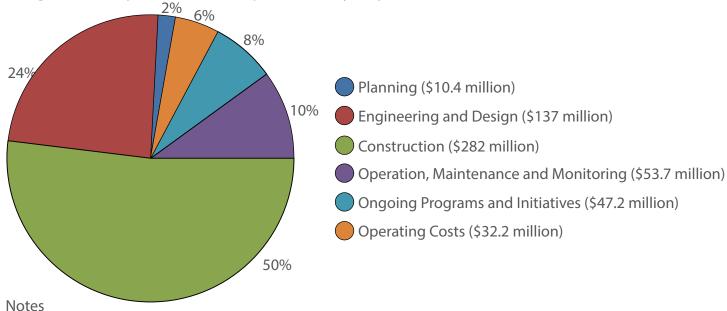
Notes

- 1. FY 2019 expenditures funded at least partially with Surplus funds
- 2. FY 2019 expenditures funded by GOMESA funds.
- 3. FY 2019 expenditures funded by NFWF Adaptive Management funds.
- 4. FY 2018 expenditures funded by RESTORE Adaptive Management funds.
- 5. FY 2019 expenditures 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
OCM	\$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

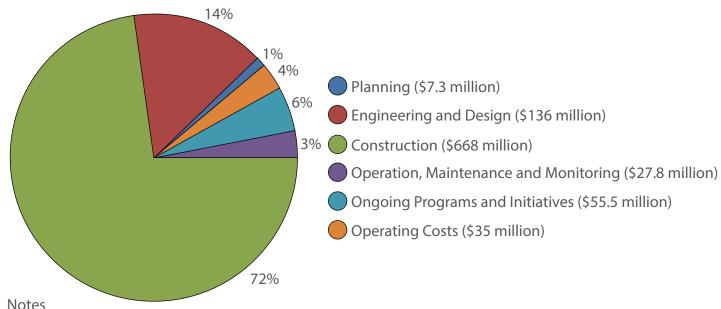
▶ Figure 4-1: Projected FY 2019 Expenditures by Project Phase



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

TOTAL Expenditures \$562 million

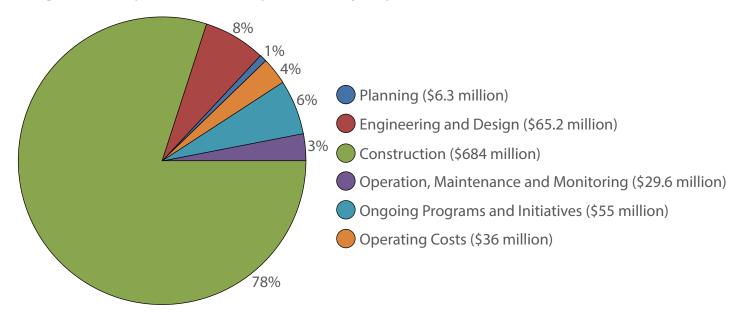
▶ Figure 4-2: Projected FY 2020 Expenditures by Project Phase



- 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)

\$931 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)

\$876 million







Appendix A Ongoing Protection and Restoration Project Summaries

									S 2022 S 200 S 200 S			
	CPRA Program		Number Number	Project	Sponsor	Parsh	Acres	Levie	Compation	Total Budget	Project Description	Plansing Unit
Interior End End	00594	Riverine Sand Mining/Scofeid Island Restoration	BA-0640	H6	NUA	PLAQUEMINES	100	150	2013	\$60,039,484	The goal of this project is to hancont sediments from the Mississipol River to restore quale and marsh has fat on Scotled Island, Project was designed under CNFPRA but conduct and using Berra to Ramer funds.	2
Lidita A via Livre Repart EA-0022 HP HAD JETERSON NA 4	DERM	Shellisland East	EA-0110	H	WA	PUADUENIES	028	NBA	2014	\$47,679,580	The suprese of the project is to reflore the action of Shell island, reduce wave deriges withn the bay are and need kink productive and an about to be suprounding see, shall shared less was consulted to a keight is approximately. It refers, a during the sheaten or 4-80 feet flut DES, a mann each suffer of 15 feet flut DES, and a total it see and 55 serves.	ee
Little A to Europe Repair	PERM	Emergency Barrior Berrio	NN.	10	INA	PLAQUEMNES, SART BERNARD	1417	ď2	2011	\$261,000,000	in response by the Deseyward (Prozon of spiel 470), the State of Louisant contribute apprintment of sand betting along investigation of the State barrier states for a set and well of the Mississon (Prior. The Celective of this striker was to conduct above to a loof missing by potential project of the of settlic broughouts of Arrier of Rapik larvier island; servedand in coastilla Louisana Agrocimated is ratio of barrier better was carniar to also appropriate of the server islands in the Characterial interesting Reach EL 47,000 Ly. State island (Reach Wife 9,000 Ly.). Fellow island griding with the Characterial island (Franch IV) 14,750 Ly. State island (Reach IV) in Resource rive, virg., and vir to was subsequently stated or to annot restorate estimate the coastillated 184,30, and IA-40, registerated.	1,2
Proprietrie Notified Pro-0697 145 1450 JUETES GOON 324 NAA Department Project Pro-0697 150 1450 AGCETIBION NA NAA Macroaline Project Pro-0697 150 1450 AGCETIBION NA NA Deficiency Project Pro-0697 150 1450 STTAMMARY NA NA Deficiency Project Pro-0697 1450 1450 STTAMMARY NA NA Deficiency Project Pro-0697 1450 1450 STTAMMARY NA NA Deficiency Project Project Pro-0697 1450 STTAMMARY NA NA Deficiency Project Pro-0697 Transfer Project Pro-0697 Transfer Project Pro-0697 Transfer Project Project Pro-0697 Transfer Project Project Project Pro-0697 Transfer Project Project Pro-0697 Transfer Project	6800	Laffe A va Lavee Repair	EA-0082	9	HUD	JEFFERBON	NIA	-	Pendng	\$530,000	This project will repail demages to the existing levers in the Fisher Basin Area. This project was caused by he are equipment and whether used the lever for flood fighting at bites during the and Gustav. This project will provide for a 4 inch it on approximately a make intent of levels.	2
District Notice Face Fac		Rosethorne Welland A samilation Project	EW-0003	9	MUD	JEFFERBON	324	NBA	hactve	\$1,893,769	The Rosifians beginned for the currently discharges beabe municips efforts the layou beat and. The project was inhered to the date occurrently execute municipal efforts discuss to the Rosifiant by the retire and outside coachi wetland should be about the lay, to retire and outside coachi wetland should be about the layout the coachi wetland.	5
Waccoomide Bubbrack FO-0151 HS		Bayou Labourne Fresh vv ster District - Water S. Lemann Memorial Pump Staton Renovations	EA-0084	2	HUD	ASCENBION	NW	No.	2014	\$3,194,155	This project will replace two of the exciting surres and motion at the Willies S. Lemann Purp Station. This project will also initial an ememberity generator to operate the pump station during power outlages.	2, 3A
Payout Charles Note Lave		Macisonville Buildread	FO-0887	88	HUD	ST TAMMANY	NIA	0.0	2014	\$2,144,366	This project will provide construction of insprovements to the existing buildhead aleng the stone of Lake Pontchashain and the cheducie there at the Massonete Marin.	+
Subject Carrier Name	6800	St. Tammany Parish Watershed Management Study	PO-0151	£	МИ	ST TAMMANY	NIA	NBA	NW	\$1,363,333	This project incokes a planning study to evaluate the feasibility of watershed management measures in St. Tarmrany Parish.	+
Cut OutPortit Aut Chinter TE-0178 THE HULD LAY-OURCHE NW B FreeMark Decayate Simple TE-0012-1 THE HULD ST MARY NW 0.2 FreeMark Decayate Simple TY-0052-2 THE HULD ST MARY NW 0.2 FreeMark Decayate Simple TY-0052-2 THE HULD ST MARY NW 0.2 FreeMark Decayate Simple TY-0052-2 THE HULD ST MARY NW 0.2 Free Control Charles Simple TY-0052-2 THE HULD VERMILLOH NW NW 0.1 Free Control Charles Simple TY-0052-2 THE HULD VERMILLOH NW 0.1 Free Control Charles Simple TY-0052-2 THE HULD VERMILLOH NW 0.1 Free Teol Control Charles Simple TY-0052-2 THE HULD VERMILLOH NW 0.1 Free Teol Control Charles Simple TY-0052-2 THE HULD VERMILLOH NW 0.1 Free Teol Control Charles Simple TY-0052-2 THE HULD VERMILLOH NW 0.1 Free Simple Charles Simple TY-0052-2 THE HULD VERMILLOH NW 0.1 Free Simple Charles Simple TY-0052-2 THE HULD VERMILLOH NW 0.1 Free Simple Charles Simple TY-0052-2 THE HULD VERMILLOH NW NW Stating Charles Simple TY-0052-2 THE HULD VERMILLOH NW NW Stating Charles Simple TY-0052-2 THE HULD VERMILLOH NW NW Fring M mach Report EW-0052-2 THE HULD VERMILLOH NW NW Fring M mach Report EW-0052-2 THE HULD VERMILLOH NW NW Fring M mach Report THE HULD TY-0052-2 THE HULD THE HULD	0800	Fagout Canst Road Levee	C930-3L	5	HUD	TERREBONNE	NA	5	2017	\$24,803,191	This project will repaire, modify or regain 6 southing wider control structures, shrolge 13,000 feel of minintor chaenness, and construct 2 new shrusters to allow under the existing readway and preposed lines. The post of the project is to entire project as a structure for their and intermediate manifies and to improve the efficiency of freshvater flow within the same as the resetablished the instructuration flow.	¥
Freshelf Degree Station TV-0052-1 HP HUD ST MARY NA 0.2 Freshelf Degree Station TV-0052-2 HP HUD ST MARY NA 0.2 Freshelf Degree Station TV-0052-2 HP HUD VERM LOSH NA 0.2 Freshelf Degree Station TV-0052-2 HP HUD VERM LOSH NA 0.1 Fresh Rogar Cherrer TV-0052-2 HP HUD VERM LOSH NA 0.1 Fresh Rogar Cherrer TV-0052-2 HP HUD VERM LOSH NA 0.1 Fresh Rogar Cherrer TV-0052-2 HP HUD VERM LOSH NA 0.1 Fresh Rogar Cherrer TV-0052-2 HP HUD VERM LOSH NA 0.1 Fresh Rogar Cherrer TV-0052-2 HP HUD VERM LOSH NA 0.1 Fresh Rogar Cherrer TV-0052-2 HP HUD VERM LOSH NA 0.1 Fresh Rogar Cherrer TV-0052-2 HP HUD VERM LOSH NA 0.1 Abstract Degree Food Cherrer TV-0052-2 HP HUD VERM LOSH NA 0.1 Beginned Petrol Desire Ar-0012-2 BR-0012-2 BR-0012-2 BR-0012-2 BR-0012-2 BR-0012-2 Control Town Rose Station Cherrer BR-0012-2 BR-0	0900	Cut-OffiPoints Aux Chime Levie	TE-0078	Ŷ	HUD	LAFOURCHE	NW	9	Pendng	\$6,458,657	This policit will file the meaning sao that is currently in the existing levee system. The 2.5-mile levee will be constructed along Grand Bayou and Se into the existing levee existens on each end.	34
Example Strate State of The Control Th.0050-2 HP HUD STAMRY NM 0.2 Fine Annie State Strate State Strate Str		Franklin Foodgate Smoothie Barps and Purro Statten (Phase 1)	Tv-0052-1	2	дон	STMARY	NW	0.2	2012	\$4,591,300	This polect probles the construction of a shikable barge structure on Frankin Canal to prevent storm surge from numosting the from If Frankin	30
Proof Centrol Structure at TV-00063		Franklin Floodgate Stricable Barge and Pump Station (Physic 2)	TV-0052-2	9	HUD	ST MARY	NW.	0.2	2015	\$2,148,666	This project will construct a purm station edjecent to the sinkable barge structure on Frankin Canal (constructed in Phase 1 of the project for present storm surge from trunclating the town of Frankin.	38
Front Sign Charles		Flood Control Structure at Boston Canal (Deauthorities)	TV-0658	ž	мор	VERMILION	NUA	62	Deathstited	\$5,800,000	This project inclues a flood control discusses the interaction of Boston Canal and the ONVN, which could be coped in the event of a humanesses the could be characterised in the event of a humanesses on topical attern.	38
Bayou' Gree Food Coatfol 14,0067 HP HUO VERMILLOH NM 0.1		Frost Ridge Chenier TerracingProtection	TV-0660	J.L	дон	VERMIJON	40	NA.	Pending	\$2,079,162	This project will construct approximately 95,000 linear field of marsh terraces south ead; of Pacan Island in Vermillon Parish.	4
Ministration of the broad of the b		Bayou Tgre Flood Costrol Project	TV-0067	9	нио	VERMILION	NIA	1.0	Pending	\$6,343,862	This project involves the implementation of flood control measures in Bayou Tigre.	,
Activation of Section 1 AT -0015 OT, WC USFWS TERMIN BONNIE NAM NAM Labe Develor District BA-0015 SP USFWS ST CHARLES 644 NA Labe Develor District BA-0015 BA USFWS ST CHARLES 644 NA Labe Develor District BA-0015 BA USFWS ST CHARLES 641 NA Develor District Manager Filter BA-0015 BA USFWS USFWS USFWS USFWS NA Charinose Headlands BA-0045 BA USFWS LAFOURINES 643 NA LAT Improvemente Pouring BA-0045 BA USFWS LAFOURINES 131 NA LAT Improvemente Pouring BA-0165 OT USFWS LAFOURINES 138 NA Residential Protection BA-0165 D USFWS PUADURINES 40 NA Shereine Protection BA-0165 P USFWS PUADURINES 40 NA Shereine Protection		Morgan City Industrial Road	AT-0005	10	USFWB	STMARY	NAM	5	2015	\$1,247,000	The protect is a road algorinest that legins at the First Steet Roodgate in Morgan City. Lik The algorinest will proceed along the impossible die of the Society and an expension of the Morgan City society and the Society and an expension of the the Look a self-integrated in the season of the City Steet and the Society of the proposed realized to set. The pretentant stroked bands the provide many conditions on the including liketiles and the majorum though the proposed refer road, and derivate the tracket bands the broad are to and access to the including liketiles and the majorum though the proposed refer road, and derivate the tracket bands in section and the second control of the proposed refer road.	38
Labor Deviated Therefore	CAP	Atchafateya Long Detance Sediment Pipeline	AT-0015	01, 10	USFWS	TERREBONNE	NIK	NA	NW	\$1,500,000	Sands abheated to the project are for the purpose of advancing the design of a sediment positive which will be used to reduce to their Temborne Parish.	×
East Grand Terrer	CMP	Lake Davador Shareline Protection @hase III)	8A-0015-X2	8.6	USFWS	STCHARLES	984	NAX	2003	\$2,300,000	dion of approximately 7,800 linear feet of ahoneline protection sear the	2
Description Land Director 6A-0156 MC USFWHS JUFFERBON 303 NMA Specified Land Director BA-0156 MC USFWHS JUFFERBON 371 NMA Specified Director BA-0156 DT, WC USFWHS LAFOURCHE 739 NMA LAT Inharmonia Headinds BA-0156 DT, WC USFWHS LAFOURCHE NMA NMA LAT Inharmonia Headinds BA-0156 DT, WC USFWHS PLACUCIA PRISON 379 NMA Frequence Protector Cit Island BA-0165 CAIT SP USFWHS PLACUCIA PRISON NMA NMA Shereine Protector Cit Island BA-0165 CAIT SP USFWHS PLACUCIA PRISON 138 NMA Shereine Protector Cit Island BA-0165 CAIT SP USFWHS PLACUCIA PRISON 138 NMA Shereine Protector Cit Island BA-0165 CAIT SP USFWHS PLACUCIA PRISON 138 NMA In Island Releation Calobitis PD USFWHS PLACUCIA PRISON 138	CMP	East Orand Teme	EA-0030	ā	OSFWS	PLAQUENTIES	693	K.	2010	\$25,426,247	The project poals is to reador 2.3 mee and 6,00 acres of barner sherinne and 451 acres of ments by of peloging 3.3 million conceyvors or The project poals of regulating the stand. The project was designed under the CMP PRA Program and constructed under the CMP program.	2
Long Charles M Massespel Final BA-004-EB OT, MC USEWS LAFORNICHE 371 NA.	CAP	Dentative Land Bridge Deck afted Dridging (CIAP)	8K-0038	MC	SWISO	JEFFERSON	363	NGA.	2010	\$18,000,000	The abjective of this project is to create and or nounth 1300 acres of marsh is conjunction with CWPPRA project (IA-36.	2
Currindo Haddands BA-0165 BH USFWS LAFOURCHE T38 NA.	CMP	Long Detance Mississippi Fiver Seament Pipeline	89-000-68	OT, MC	USFWS	JEFFERBON,	377	NBA	2016	\$66,094,073	The goal of this project is to use material directlyed from the Mississippi Fiver and transported via new permanent pipeline across the Banasiria Basin to create maint and/or a ridge.	2
LA 1 Insprovements - Fourthing BA-01655 OT USFWS LAFOURINES TOB NAX	CMP	Carrinaca Headlands	8A-0045	н0	USFWS	LAFOURCHE	738	NBA	2014	\$70,679,580	The proposed project will redone and protect blach and durie highted across the Cambrada Meddland through the dreid placement of perferent (pane), material for the beach and durie hashad from offinore borrow areas.	2
Mission of Prince In Control of March 1987 March 1987 PLAQUENTES 308 N83 Mission of March 1987 (A-0161) FD USFWS PLAQUENTES 40 NA Shore from Protection Cat stand BA-0162-CAT SP USFWS PLAQUENTES 40 NA Shore from Protection Cat stand BA-0162-CAT SP USFWS PLAQUENTES 40 NA Shore from Protection Cat stand BA-0162-CAT SP USFWS PLAQUENTES 40 NA Shore from Protection Cat stand BA-0162-CAT SP USFWS PLAQUENTES 688 NA Shore from Protection Cat stand BA-0162-CAT SP USFWS PLAQUENTES 698 NA Shore from Stand Redication CAD PIFE SP USFWS CAMBRON 138 NA Mission Catalogue Call Stand Redication Call Stand Redication Call Stand Redication CALL Stand Redication NA NA Mission Catalogue Call Stand Redication Call Stand Redication Call Stand Redication Call Sta	CIAP	LA 1 Improvements - Fourthon to Leavise Bridge (CIAP)	BA-0055	10	USFWS	LAFOURCHE	NIA	NIK.	2010	\$33,000,000	This project is located 60 miles south of New Orlean in lewer Lafourthe Parish stetwen Levella and Porf Fourthen. The project revokes the construction of a fine loop, the lates when the Meritan (the Finale Manager). The Pinale M project removed the Pinale is and Pinale is an Indiane in Pinale is an Indi	2
Messession Rever Water BA-0163 - FD USFWS CAFOURNERS Not Available NA	CIAP	Fringe Marsh Repair	89-0058	MC	USFWS	PLAQUEMINES	300	NAX	2014	\$0,258,605	This program twokes the reed adobtornated of approximately 300 acres of critical areas of fingles marith in twee Plaquerares Plantin to sep mininte the continued treatmentation of wetlands system throughout the coast.	2
Sheekine Protection Cat faind BA-0162-CAT SP USFWS PLAGUENINES 40 NBA Sheekine Protection 60x-3102-SPER SP USFWS PLAGUENINES 40 NBA Bayou Lamberton Protection 85-001-EB FD USFWS PLAGUENINES 698 NBA FE Issiand Restoration CLAPTET SP USFWS JEFERSON 128 NBA Marsh Consistival Breditch CLODIS-EB DM USFWS CAMERON 308 NBA Trockia Posi Repair CS-0047 OT USFWS CAMERON NBA NBA	CMP	Mississippi River W ater Rehttroduction into Barou Laffourche - BLFWID	0A-0161	FD	USFWS	ASSUMPTION, LAFOURCHE	Not Available	NA	2016	\$20,000,000	This project destinates to above the continued designed of a 100 for technical for an additional—1 at make different Lathorithe. Devial polyect destinates of above the continued designed of a 100 for a devial for an additional—1 at make different Lathorithe. Lathorithm or preferent and a screening discharge coachy of 100 of a devial part and additional part of devial mentions and a 100 of a devial part of the professional base of the processing the part of the devial discharge devial part of the devial part of the devial devia	£.5
Shoreite Protection	CMP	Shoretine Protection Citi Island	BA-0162-CAT	3.6	USFW3	PLAQUEMINES	40	N.S.	nache	\$1,200,600	This proper for the sector is well as ease to adminispent were teash and confidently internitive with constant to content the property of the sector in the confidence of the sector in the confidence of the sector in the sector	e4
Bayou Lambqae Dodgate B9-0013-EB FD USEWS PUAQUIANNES 668 NA Farevox (Institute) Farevox (CMP	Shoretine Protection Emergency Restoration	BA-8162-SPER	9.00	USFWS	PLAQUEMINES	40	NA	2013	\$355,780	This coolect contained is alones of authentopad wave treeks surrounding shoulter elegeneits in Lower Plagatement Partin to protect the air damaged states along the outland services storm buttine were classage write also coloring seatment in order to indust the Pound the degregated intestruction of the statents.	Ñ.
FE Histand Restoration CLAPTET SP USEWS JEFFERSON 128 NA. Machine Creation CLAPTET DM USEWS CAMERON 2011 NA. TOXICIAN PROJECT CS-0947 OT USEWS CAMERON NA. NA.	CMP	Barbu Lamoque floodgate Removal dinactive)	03-0100-60	ro U	USFW3	PLAQUEMINES	683	NA.	hactve	\$2,870,559	This project exickles the nerroral of floodgates to allow uterspecied flow of theirweiter through the water control structures.	
Might Coeteniva Bindfell C6:0035-E6 DW USFWS CAMERON 206 NA. Troucles Road Repairs C6:0047 OT USFWS CAMERON NA NA.	CMP	Fill listand Redonation	CLAPTIFI	95	USFWS	JEFFERSON	128	K.	2003	\$751,406		**
Trouchair Road Repairs CS-0047 OT USPWS CAMERON NW NA	CMP	Maryh Cheaten via Bhrvefical Use (Phase 10 (Back Lake)	CS-0035-EB	MO	USFWS	CAMERON	300	NA	2010	\$10,000,000		~
	CMP	Trosclat Road Repairs	CS-0047	10	USFW3	CAMERON	NAM	52	2009	\$2,839,592	This rosect encloses construction an overlay on Trock last Pools, a sarder road has in shawle updet by offered statements to the servicest is accommissible in this song and connects these Homerey 2782 from Cambring to Tale Hotherey IZ to Oak Omne.	-

CPRA Program	Name	State Project Number	Project Type	Federal	Parish	Acres	Mies of Levie	Construction	Total Budget	Project Description	Planeing Uni
CIAP	Bush Canal and Bayou Tenebonne Bank Statigation	DIAR 2513- 0311	98	USFWS	TERREBONNE	4300	N/A	2002	\$3,700,000	This project reconstructed the looth bank at Blash Canal uping material deligned from the canal. The restored bank-line was then to concern departed the can district most when force. The rebuilt bankeline will help to dinnish storm surge as well as refuse cabadase neturion. The consist sear cheefs by the CAP of 2001.	*
CMP	Performance Evaluation - Barataria Land Bridge Robnical Montoning	Uv-0012-2	10	USFWS	JEFFERBON	NW	NAA	NA	\$432,618	This research study will be cenderted on the Bantana Lind Bridge Dedicated Diedyling Project (50x-39) and will assess the effect of shedged worken's topic tables on solve-agetation hydrologic dystems within detectorizing triando brackish member.	2
CIAP	P erformance (installion - F reshwiker (layou	CC-0012:3	10	SMJSO	VERMILLON	NAM	<u>ğ</u>	VP.	\$296,029	This study focuses on the exacted vehicle in change of the dredge Burn's die to brinniciale and tons term settlement and provided and "Viola performed involves provided inches to a provided and provid	×
CIAP	CMP Performance Evaluation - Banter Island Studies	LA:0012:5	10	USFWB	JEFFERSON, LAFOURCHE	NW	NOA	M24	909'9554	Evaluation of Tidal Pass Morphology Pods Restination at East Grand Terre and Development of Barrier Island Comprehensive Monitoring Program voortaking sampling poblects.	53
CIAP	CLAP Planformance Evaluation - Caminaca Maneau Subsidence Shoty	LA-0012-6	10	UBFWS	JEFFERSON, LAFOURCHE	NAK	NA	MA		Perserch to be conducted on the Caminada Headland horder to quartify the amount of consolidation in the substrate underlying alonder resulting from plicyment of sand for stand retainstion.	2
CMP	CLAP Performance (Ivaluation - Horrow knea Management and Monforing	14,0013.7	10	swasn	COASTWIDE	WHA	100	WFN	615,5118	The bornwishes Microboring and Management (BAMM) was taited to understand the evalution of bornswipts to inclination projects printing, expension, and officiency over time, with a particular fortion of the reliable (plass and types of rediment) and gradeer of the pip appears as well as potential drouge imparts. The study invokes the collection of poolingwal, potentines and water quality distance pressiblication, areas to understand not only the above ovjectives but also the hygoxic confidents vite Avia depth of cut it borlow area.	COARTWIDE
CIAP	Coastal Forest Conservation Intlative	LA-0013	PP, 0T	USFWIS	COASTWIDE	40000	NAA	NA	\$20,168,136	A program to preserve existing coastationes via punchase of the Like or conservation sendsobation witing land owners.	COASTWIDE
CIAP	Rockefeler Shorethe Protection Demo (CIA.P)	ME-0018-EB	88	USFWS	CAMERON	62	NA	6002	\$8,500,000	The project involves the contruction of three types of showine protection shuckores as a demonstration to obtermine which hyadis of shuckores are successful in profeting the shoreline. Successful shuckorig) are intended for use in a larger CMPFRA Project.	,
CAP	Grand Lake Shoreline Protection CCAP3	ME-0021-EB	8.6	USFWS	CAMERON	495	NA.	2010	\$8,129,619	This project brokes the construction of approximately 37,800 linear field of shoreline protection on the south shore of Grand Lake from Superior Canal to Tebo Prom.	m 4
CIAP	Mississipi Rver Ceta Straligic Planning - SSPM Expension	MR-16-SSPM	10	8.M.3801	EAST BATCH ROUGE	WPA	Na.	2017	\$13,520,000	This project evelop the construction of a new equated of small stells by must all specificable of models or make the free control of the cont	1,2,34
CIAP	Violet Diversien	PO-0035-EB	FD	OSFWS	STBERNARD	13280	NA	1939	\$1,170,582	This project enougates the aversion of feathwater from the friestings librar its Laks Biograf to feather Missessys Sound, Central Welfunds and Bloot Marsh areas. The Featibility Study for this project is being cone as part of the WROC Ecosystem Restriction FS.	+
CAP	Onlians Land Bridge SP & March Creation	PO-0038-EB	86	USFW3	ORLEANS	143	NBA	2013	\$20,860,000	This project provides shoreline profes bon on the northwest rin of Lieke Borgsie west of Allgabar Point.	-
CIAP	E ast LaBranche Shoreine Protection	FO-0043	86	USFWS	STCHARLES	Not Available	NA	2015	\$3,753,816	Through various fanding mechanisms, including CMPPSN and CUIP, all but approximately 16,300 linear feet of the East LiBranche Inhorene new seeing infection. Sant Charles Parish has a quint 81,75,316 of CMP funding its constitut 1,800 linear feet of sharene yorkecter in Po-4.18 and Libranche Shorene Parish has a quint of 25,816 of CMP funding its constitut 1,800 linear feet of shareness and constitution of the funding to constitute indexistic for the most order and areas.	- t
CMP	Central Wellands	FO-0073	ž.	USFWS	STBERNARD	10-20	NAA.	2016	\$3,500,000	This demonstration project eventgates the isomificial use of Familia as in alternative to chicking best efficient at the GW (INO) of East. Seven Teatment Plant.	
CIAP	Central Wellands - Riverband	P-0-0073-1	ž	OSFWS	STBERWARD	346	NA	2015	\$2,900,000	I fins project encloses the discharge of efficient term a CVV teVO coxplaton paint to be discharive fearing. This would also severally the production to prospect one again in the area, and would also seve St. Bernard Parish the root of running a several ne from the Josephon paints the land of the first of the first parish the land of the land o	-
CIAP	Central Wetlands - EBSTP to A.2	P 0-0073-2	ž	SWJSO	ST BERNARD, CRUEANS	173	NAS	expeu	\$4,500,000	This poject receives the interduction of herinwase from the SWBNO's East Park Sever Treatment Plant to cambal self-water insustra Plant MEDO and thus alternate to replace the Important Wellands. To poject involve piping treated efflant from the 1895 Fr. 1831 Bernat due to and reportable parkins to noute had souder mosts.	+
CMP	Certral Wellands Demonstration Expansion	P0-0073-3	9	SW3SO	ORLEANS	17.2	NBA.	2016	\$4,500,000	The Cecta withdrass Centroditation Expressor cooked work to start soft cate whiteless in the sea belogyzed A- side, well-assemblen of the left of Expressor cooked white and center that is a set of the season of t	+
CIAP	Living Shoreline	PO-0148	98	USFWS	STRERNARD, JEFFERSON, ORLEANS	5340	NA	2017	\$26,500,000	The armor poject inclues the condicution of tone-optimised conserved above conditings must in its Benned Divin. The Institution active place from Elis Policitor be mouth of Benou La Loude auturic Lydia Point and Pulma Polici edending anount the Southern shore of Treasons Bay, Other resident Lives for the sets in each Plantaner Paris and Jeffmon Parisi.	13
CIAP	Rainey Audubon Wildlife Sanchary Eather Teraces	RAINEY	MC	USFW3	VERMIJON	1119	NAA	5002	\$90,089	The project consists of constructing approximately 35,008 times feet of consists. The terms os were created by deciging in shallow speri walter areas and plang the speci on one side of the borrow area. An additional \$191,703 wais contributed from the CAP of 2001.	30
CIAP	GMWW Bank Restoration of Critical Areas of Terreborne (Cut P)	TE-0043-EB	86	8.MJSIN	TERREBONNE	1,180	NIK	1102	\$7,274,676	The project objective is to respon critical lengths of determinated channel barries and stabilities/armor selected citical lengths of deteriorable channel barkes with hard shoreline stabilitation materials.	38
CIAP	Freshwäre Barou Bark Stabitzation	TV-0011-B-E9	8.6	USFW3	VERMIJOH	122	NA	\$102	\$13,568,504	The goal of this project is to stop erosion along the bank of Frethwalter Bayou. Canal and its protect the tribrior wetlands from sahwalter inforces that we consequent the second of the relatings and wearen sharped by constituting and weater than the second of the relating that we consequently the section and weaters to be and of the relating that we consequently the section and weater barroof of the relating	38
CIAP	Por of Berta Bridge Regalcement - Port Read over Commercial Canal	10-0128	10	SMJSD	MERA	New	NA	£102	26/529\$	This project brokes the replacement of the broke on PortRoad over Commercial Cania & the Port of Berts. The Port of Berts is a major test whose a major test when the armound of our case products and the imperentation of particular products save a major test to the brokeness.	30
CIAP	Port of Berla Bridge Replacement - David Dubots Road over Cerrment is Cartal	TV-0030	10	SW480	IBERIA	NW	NW	2013	£1,858,113	This project involves the replacement at the bridge on David Dubois Road over Commental Canal at the Port of Baria. The Port of Baria. The Port of Baria The Port of Baria Products and the large equipment used in Variety of the products takes a major from the oct? Stridges and conference.	38
CIMP	Acadiana Regional Airport Obred Improvements - Administ Code Dates	TV-0031	10	8.MJBO	IDCRIA	WN	NA	9102	\$1,114,542	This project involves patiting and overlaying 5,310 feet (about 1 mile) of AdminalDoyle Road around the Acadama Regional Argord in Beet in burden in internation with 14, 237 b. the end of the boar time beeting. The project provides improved access to both the beet in the control of the control of the control of the boar of the boar time beeting to be a control of the control o	000

CPR& Program	Name	State Project Number	Project	Spensor	Parish	Binefiled	Levee Levee Interved	Correlation	Total Budget	Project Description	Flameing Unit
CMPPRA	Atchafalaya Sedment Delivery	AT-0002	gs	NMFS	STMARY	2223	NA	1990	\$2,532,147	The stoleche of this project is to enhance natural deta growth by re-opering Nakai Channel and Castille Pasis Nakai Channel was re- seatement with a 12th-forwark, 10-foot deta, 3,000-foot long chinnel and Castille Pasis with a 19c-foot wate, 10-foot deta, 2,000- tool foot channel. Matrical decigaed (700,925 cubic yards) as a result of construction was strategic ally placed at deviations remixing "Matrical deta bodes.	90
CNPPRA	81g stand Mining	AT-0003	NO	SJAN	STMARY	1580	NA	1993	\$7,877,404	The project includes creating a new western data labe behind big island to enhance the accretion of land beyond the west hank of the latchshape (Rec. Construction included creating of a main stem and the transit channes designed to mint in abund channel abrevations. Chedged insuland was plategraph placed a television intrincing natural obtained. Re opening the channel is ablevation confined natural sediment based and marks or merchin.	90
CWPPRA	Castile Pass Channel Sedment Delvery (Desuthorized)	AT-0004	G8	NAMES	ST MARY	1855	NA	Deatherhed	\$1,717,883	This project enestigates dreiging a system of distribution; channels to create 509 acres of minn through sediment placement and status deposition.	38
CNPPRA	OWW Quil ritre cestel Washway to Clovely Hydrotops Restoration	6A-0002	ž	MRCS	LAFOURCHE	175	ν. V	2000	\$12,096,350	The project installes the controllers of features producing canal puga, tock weets, fixed chest were with best, one wands is rest. We substitute the weeter best of the bark struct have enoted away it espeem Lafourche Pauch is restore the area in the find risings. The individual is represented retorcally.	3
CINPIRA	Nacmi Cuttal Management	BA-0003-C	300	NACS	JEFFERSON	903	NB	2002	\$2,216,972	The arciect manages the outsit of the existing eight schools by controlling the movement of the divertiod waters. The stathons divertible schools do not expect that the stathons water from the Missistipol River into the west bank welfands by risked subhasher infruition and enhance welfands account by	2
CHPHRA	West Poste a la Hacha Outla! Management (Deauthorized)	BA-0004-C	ž	NACS	PLAQUEMNES	649	NA	Deatherzed	\$6,520,516	The project goal is to optivitibe use of feeth water and sortment supplied by existing sighten by reducing channelized flow and routing the diverted flow to nousish manifes. Project was desufflorized in 2015.	z
CNPHA	Lato Savador Shore Protection Demonstration	8A-0015		NAMES	STCHMRLIS	NA	NA	1998	\$5,858,508	The abjective of this protect is to maintain the stonetine about a section of Lake Salvasco and help the hestaldes the hashaal hydrology of interies many. These is of the protect was conducted to demonstrate the effectiveness of flour separate speed of separates to poor sell emiriciment. Phase is of the project included the matalation of 6,000 feet of continuous not structure along the weeken section of the lake.	2
CNPPRA	Fourthon Hydrologic Restoration (Deathorited)	EA-0018	9		LAFOURCHE	NAM	NO.	Doadharbod	\$7,700	to the post of this project was to retroe 804 exchange to 2,400 as res of impounded wellands. The project was officially deauthorized by an CWPPRA Table Force in July of 1994 at the request of the tancownit.	2
CHPPRA	Barataris Bay Waterway Westend Resonation	EN-0019	MC	USACE	JEFFERBON	518	NBA	1995	\$1,170,000	The project borneficially esed dreoga material to enlarge Gueen Bers Island.	2
CWPPRA	Jonathan Daris Wetland Protection	BA-0020	HR, 8P	NACS	JEFFERBON	818	NA.	2003, 2012	\$28,888,516	The goal of the present bits restore the matural knickopic conditions of the exec and relates shoreline exesten. The goal was partly accomplished through constituting a series of waster control durt tares. Constitution will 4 consists of 4,180 for took nip rap yearment, 15,110 for controls sheetile alreading and matural cristics.	2
CNPPRA	Barou Perot/Barou Rigolettes Marsh Restoution (Desuthursen)	EA-0021	NC	NAFS	JEFFERBON	1086	NA	Deatherized	\$20,964	This sociect was authorized to prefect dehevirabild intermediate to their airsh mareh for afted between Lake Sahadori and Little Lake by Larged delegatorism after the presentation of the process of the control of the project was deemed undeathe and was designed elegatorism for the Crystal Bold, Tayle Good in January of 1991.	2
CONPINSA	Bacut, Curr Ridge Hydrologic Restoration (Deadhorized)	EA-0022	ž	NRCS	DATOURCHE	737	2	Deadharked	\$371,232	This project was proposed to relative rularuit hydrologic flow to the marsh by reinforcing breached assess of the Basou L'Ours Ridge recough aware of cased courses and how wells control stuckures. The project was officially obsultivized by the CMP PRA. Task. Force is a lost 1003 because of bandworks access.	*
CWPPRA	Barataria Bay Waterway West Side Shareline Prefection	EA-0023	88	NACS	JEFFERBON	1789	NW	2000	\$3,304,787	The project objective also rebuild the west bank of the Duproe Cut to protect the adjuscent manys from unmatural water exchange and subsispance enoisor. A rock also was constructed along 8, 400 linear feat of the west bank of the Businish Bay Waterwey.	2
CINPINSA	Myrla Orone Siphon (Desuthorized)	BA-0024	60	SAME	PLAQUEMINES	NIA	NO.	Deadharged	\$491,002	ish existing marsh. This will be account this project was officially desicting corne for account was 84.30.	2
CWPPRA	Bayou Lafourche Sphon (Desutheread)	BA-0025-A	FD	EPA	LAFOURCHE	428	NBK	Deadherzed	\$45,922	The goal of the project is to reduce marsh loss adjacent to Barrou Latourche by stroducing nutrient and sediment agen river water frequent large sether retes. This project was required on the 11th FPL as Ba-256.	2
CWPPRA	Mississippi River Fearthoduction Into Bayou Lafourthe (Desuffwrited)	BA-00025-B	FD	EPA	ASSUMPTION, LAFOURCHE, TERREBONNE	08098	NW	Deathurbed	\$9,619,585	The goal of the project is to restore and protect the health of maraties in the Barakata and Terretorine basins brough instruction of an elementary and restore the second secon	2
CWPPRA	Baratana Bay Waterway East Side Shereline Protection	BA-0026	a B	NACS	JEFFERBON	211	NIA	2001	\$5,224,477	The elekthor of this project is to relevant the banks of the SBAVW to protect the adjacent month from excession tidal action and absorbed to project consider of 17,800 (3.3 miles) of leve constructed with diedged malerial from the EBAVW, and 17,801 3.3 selece of risk service.	2
CNPPRA	Barataria Basin Landbidge Shoreina Protection, Phases 1 and 3	EA-0027	88	NACS	JEFFERBON	1304	NA	2003	\$31,268,523	The elective of this project is to select a cust offerbus assisting control technique to date this evolution as escativaation the scotting of the assistance of the project and the scotting election as estimated to be approximately 71,000 feet.	2
CMPPRA	Baratiera Basin Landtodge Shoreine Protection, Fhase 3	84-0027-C	3.6	NRCS	JEFFERSON, LAFOURCHE	5597	NA	1939, 2000, 2017	\$46,231,597	The project tested sections of different showards protection types, such as, concerts panel wal, rock and aptrock. These projects some combusted over 41,000 feet of shootene and ection.	2.
CINPINA	Barataria Basin Landbeldge Shoreline Protection Phase 4	G-/200-VB	48	NACS	JEFFERBON	588	NOA	2002	\$17,709,216	This poject consist and 13,500 feel of foreshore not is discussed a lightweight aggingate cone or concuste shaeble and will incoperate Yah sips" and openings at historic natural channels to eliminate shovelite erosion and definionation of the Bantania landbridge.	2
CWPPRA	Vegetable Plantings of a Drespect Material Disposal Site on Orand Terre Island	EA-0028	d A	NAFE	JEFFERBON	127	NAS.	2001	\$526,314	The project invelved the installation of vegetative plastings on proviously condituated march and duce platform.	2
CWPPRA	LA Highway 1 Marsh Creation (Deauthwitzed)	EA-0029	MC	EPA	LAFOURCHE	145	NA	Deadherized	\$250,257	f the statement of the protect owners hastall in a large spein water area adarsed to Loudenina Highwey Tustrig deraped manifest from the proposed bronch was as This project was officially desutherized by the CMFPRA Task Force in February of 2005 specialized twas determined to be referable.	2
CNPPRA	EastWest Grand Terre Islands Restoration (Transferred)	BA-0030	NC	SJAN	JEFFERSON	403	NAS.	Transferred	\$2,211,739	The post the project is to allebra and benefit 1,515 aros of barrier interchabits and noted the situative to expect terry. Diseaged visible to teste duse and march habitation lists of condition to the situation of the pupier was constituted using CAP 2007 bands.	2
CWPPRA	Deta Bulding Diversion at Myrile Grove (Transferred)	EW-0033	8	USACE	JEFFERSON, PLAQUEMNES	1688	NA	Transferred	\$327,422	The stricthe of this passed is to devel this sissings fee wider and soldment for the breaton of sew emerged wetends. The project will be shown to the wetends of the wetend of the wetend of the feet of the wetend of the wetend of the wetend of the wetend of the sping feet of the wetend in the wire for of 8 and Dupout, the that are all the wetends of the Wilderent and the Wilderent Canal, or a constant of the service the stronger of the Wilderent Canal, or a constant of the service of the Wilderent Canal, or a	2
CNPFRA	Mississippi River Feirfündurdon Into Northwest Biristers Basin (Transferred)	6A-0034	g,	EPA	DAPTET, ST JAMES. LAFOURCHE	6134	NA	Transferred	\$17,000,780	The goal of the project is to redice the natural hydrologic regime and add nother is to adjuvent aways areas. The project would utilize in the free destrointies from the life session in	2
CWPFRA	Hydrologic Restoration and Viogetative Plantins in the Lacides Alemands Svience	BA-0034-2	HR, vP	USFWB	STJOHNTHE BAPTST, ST JAMES, LAFOURCHE	5134	NN	Pendng	\$14,355,710	20 00 00	2
CWPPRA	Pass Chaland to Grand Bayou Pass	8A-0026	H	NMFS	PLAQUEMINES	358	1404	2009	\$46,414,530	This posict incoved the creation of a furniand march partions on the north side of the Out' of Mesco adjacent to Bay Joe Wise. Sang fercing and vegetation were installed.	2
CWPPRA	Decic ated Driedging on the Bandaria Basin Landbridge	BA-0036	MC	USFWB	JEFFERBON	2800	NO.	2010	\$36,281,893	Approximately 5.89,000 other yants of noticely was placed in two contained marks creation assess to conduct approximately 1.211 sources of infection amounts as final elevation of 4.52. A NVIO 88. Approximately 3,931,000 outlet yants of material was placed in adoling its evests noticely nationarized 4.570 elevated marks.	2
CONPINSA	Little Lake Shorehae Prosection Dedicated Dredging Near Roand Lake	8A-0037	MM, SP	SAMS	LAFOURCH E	tt.	75N	2002	\$44,931,012	This project is designed to profect larea welfands, which currently experience high rakes of thorstine inciston. This project publishs apportunities A 10 to feed of LLB Lakes shreetes, create 4(ii) acres of reshribat weldends, and mountain an additional \$52 scree of hazameted, depicting manth.	2
CWPPRA	Polican Island and Pace La Mer to Chaland Pass Restoration	EN-0038	8H, VP	NAME OF STREET	PLAQUEMINES	1117	NA	2012	\$52,893,995	The elstweet of the population to create some stand habital, enhance standing supplement present extractions of since a discourage of the population of the process of the	2
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State Project Project Federal	Parish	Acres	Miles of	F	fotal Budget	Preinct Description
		Benefited	Levie	Completion		
TERREBONNE		NIM	NA.	Deatherized	\$59,638	The project would have reduced many this rates and involved for and widdle habit at quality by redoring natural north-louth water son thape with existance water bottles and by reducing flow through the numerous dindiged case is the area. Because of problems with theights and newfatter, the project has disclaim deathoused by the cVMPPRAT Task Doce at 1996.
TERREBONNE	-	897	<u>g</u>	1000	\$8,762,416	The project objective is to restore the coastal dures and wellands of the Eastern labes Demieres barrier stand than. Approximately 3 grants or cuts or sand were credged from Lake Pelco and used to tudd a retaining dure which was then hydroulically filled to reads an elevated many platform. Sand fences and vegodation were also installed to stable the sand and minimize wind-elinen becomes
TERREBONNE		37.5	5	1997	\$5,544,367	This project is intended to refer elaborator into the Point as P or murship without inducing freshwater buck Roomy from the Adminisher Priess. Phase tof this project, completed in 1997, involved the pugging other major natural paciet pipeline canale on the abstration had for less than 1997, and the project of the project project of the public project pro
LAFOURCHE		929	ψ ₀	1990	\$6,026,054	The project reduces the encountered of "include Bay also the manifest on the west sale of Bayout allocathe with the use of the project reducing or constitution of the reset of manifest of the west sale of their pass. A water centro infurbate was placed in the "vane Canal, and fluggion of the centre."
TERREBONNE 7	-	31.18	NOA	1999 \$	\$10,774,974	The project objectives are to restore the Trenty tisting (stuves and markt) wetlands of the take Demisros chain, enhance the physical riterators for the plant, and puried the lawer Temborone educer.
TERREBONNE 19	5	1913	NA	2001	\$3,720,721	The rejective of this project is to sheriphors and thus increase the life expectancy of East Timbaler bland. The project called for the referred of 2.7 millor cubic yards of settiment and placement of the makeshill is three embayments along the landward shoreline of East Timbaler island. The project also included earlist seeding of the dane professiv, restablish of send finiting, and dane wagetation also the project also included earlist seeding of the dane professiv, restablish of send finiting, and dane wagetation.
TERREBONNE 509	8		NA A	1888	66,110,123	The electroes of the popied set to redice the enables the authorised actioning the close deposits are a to accommend the Local broad and Allgade Bloow with the close the control of the Local Bloow and Allgade Bloow with the control of the Charles are 10 according the many and accommend to the Charles are 10 according the statement of the Charles are 10 according to the control of the Charles are 10 according to the control of the Charles are 10 according to the 10 accor
TERREBONNE 652	2	- 12	NS.	2000	\$7,108,508	The project creates and resident beauthers and basic lated murathes on Whitakey lated. The project created 523 actes of basic lated beauthers and basic lated and an annual more control to other breast as Conservations and the same of the same of the same of the same operations are published to the same of
TERREBONNE 20	20	282	NO.	2000	\$7,593,752	The ebjective of the project is to maintain the fragile, highly-fragmented transforal masters between the fresh, and estuarise zones by an entertainment, and numerical submissed, and numerical submissed, and numerical submissed.
TERREBONNE NA	2	*	NA	1981	\$1,295,388	THIS STUDIOS ENTANCIS DIN TRAINF YOU DISH NO DINGSTAYS AND WOURSES OF MICK COST TRAINF AND FLOORS CHAIN AND THAINFAST THAINFAST THAINFAST.
TERREBONNE 215	216	2	NW	2000	87,800,150	The project goal is to sterrighten and increase the if e expectancy of East Timbake island by placing dreoped material along its and anadowald binking. Additional rick has been placed on the existing breakwater is front of the island, which withheelp probact the created wave-received.
TERREDONNE	NA	oc	25	Deadherzed	\$136,960	The purpose of this demonstration project was to determine the effect binness of different fencing techniques used to conserve and was the items of marrier. Three was offectly in occurry an appropriate sets he demonstrated and in addressing engineering constraints. The restoration bechapies that we originally supplied for this project were not likelable. The project was officiable the abronged by the CAMPP FIA. Trust Cent at 2010.
TERREBONNE 603	603		NA	Pendng 8	826,875,858	The project aims to introduce theirbwiser fram the HHC through an enlarged literou. Peton channel across Bayou Grand Caldou and reough a galled channel.
TERREBONNE	NA		NSA	Deatherzed	\$3,452	The surpaise of this project was its life the wellands protection estimation object heir CVFPPRA with fload protection and have place meet a previewed by WISA. The project components consisted of implementing along-him water management stategy for the Vered Basin made examine a tono-him near value debear strategy from Acharation Rhei to Temborne wellands. The protect was offers a desarrors by EVEPPRA, Task Force in 1981.
TERREBONNE 675	675	Н	NO.	2011	\$17,628,914	e electho of the project leto divertineshwater flow from north-western to south-earthern aub project areas rougled with protection seasons to reduce inunciation of thagle marsh areas in overall Penchant Basin in Terrabonne Panish.
DT MARKY 434	*C+		VS.	Deadherzed	600,004	The project consists of the seneral uses of dropper manner front the "Crow less trute" and placing fill the Ance issen a see. Milliough the project would have benefited 434 acres at a cost of \$5,43s, 40s, the cost of the project was estimated to be considerably when the originally planned, misting it economically unjustifiable. The project was officially desurbinded by the ONP PRA. Task force in 1926.
TERREBONNE NA.	NAA		NA	2000	\$538,101	The elective of the carest is to be due to a descend of this court continue, the state in man from a thorn affects using virtual virtual more elections and prompted to the continue man page into the fire material page into the material page
TERREBONNE 306	308	-	SS.	2000	112,069,025	
TERREDONNE 202	202		NA A	2011	\$5,223,108	The poposit cheves the contraction of a water color istructive in the southern park of Lake DeCade. The structure encesses the surcent of Athaflayes the water and sedment introduced the Die misches some of the lake. In addition, shortees protection was mightnessed additional to the processed structure and water interference and the late of the second services.
TERREBONNE 663	663		NS.	2004 \$	\$16,662,199	Trabate transfer any party to the westsrethwest therefore, the western and of The salar island is undergaing latered may also by spic-building processes all the parese of despire a daright each like pojective of this project is to restore the earshment of Trabate issued for the other creation of beginn there, and may in.
TERREBONNE	NW		NA	2003	\$1,732,498	This dementation project is theholds to develop new rethingues for probleming in restinging openic soils, which can be easily recided. It is the brains and benefit roughs were treated to determine the broaded file themens of demonstrated approaches. The project shaws the requirement of many the project shaws the requirement of the project that are requirement to the project of the project shaws the requirement of the project of the proje
DT MARY NA	NAM		NSA.	Transferred	Pulh.	This project is interceled to relate mereth bis through the improved distribution of excess theirwiske osestonally available in the Guil' that interceled wherevery (Alvert The project was benefit defensating members in certain and/or seatem particle or the Terresconce 23 sea. This project was smallered to the CAL Rogern.
TERREBONNE 345	345		NA	2014 8	\$13,022,245	The project objective is to relative intext weights of objective and stateballismor elected catchings of electronic project of the project of
TERREBONNE 604	P09		ğ	3000	8/24,000,012	The project is intended to heep maintain and rectore the tandbridge (Lake Mechant north aborethe and the Dinal Dayou La Poetta Rogal, which stowds a hydrolyse known the between practical and Daywillitch haddats. Project Wather is Labb mainh creation, the abaning a secure control of the parties (Spalmina alternation provided in the control purpose (Spalmina alternation of secure of the secure of the secure of the abaning a fragor-resid were about the control of the secure of
TERREBONNE 0	0	П	NO.	2007	\$2,718,768	This project is mended to evaluate several different shoreline protection methods, including concrete mats, antificial oyster reefs and Autosets.
TERREBONNE 14	7	145	NA	1000	17,893,513	The purpose of this project is to coasts and nousish about 200 acres of mayor along the western shriveline of Lake Boustineaus to include the about appound to the end of the about an about a substance and about an about an about an about a substance and about a substance and about a substance and
TERREBONNE		806	N.	nactve	013,593,110	The eleiethe of this project is to rebuild dozies and a march patition on the west than of Whistley island through the cliposition of tredged material transported from 8the Shoali. This project would provide a barrier to reduce were and trail energy. Thereby protecting manisand shortifine from confirmed encision. The project was designated as hastive by the CWFPRA. Task Feire n. 2013.
TERREBONNE 16	16		NSA	\$ 2007, 2013	\$23,163,393	The purpose of the project is to protect the existing southern showine of the island by construcing it more rook breakwaters. Phase it

CPRA Program	Name	State Project	Project	Federal	Parish	Acres	Miles of	Construction	Total Budget	Project Description	Flansing Uni
		Number	lype	Sponsor	- 31	Decision	Levee	Completion		Allow Place and service and expension and expension and expension and	_
CINPPRA	Avoca Island Diversion and Land Building (Desothorbed)	1E-0049	FD, MC	USACE	ST MARY	NIK	NBA	Deathorped	\$19,157,200	Project features include a small diversion from Eavou Shaffer into Avoca Lake pared with marsh creation through dedicated direciping. The project was subsequently desuttended by the CMPPRA Task Force.	34
CWPPRA	Whakey bland Back Berner Marsh Creation	TE-0050	H	EPA	TERREBONNE	278	NO.	2010	\$30,414,083	The goal of this project is to recreate a black barrier naces platform on which the barrier island can raigrate in order to increase the longering all generously entored and natural posters of the bland. Heary control conversible in the stat of 2009. Frosect leabure is closed centrolishon of 316 acres of back barrier marsh, 5,808 linear feet of fed icree is, lines in acre to stationed, and 13,000 increased cannot connect on the out-state benefit or increased.	98 3A
CNPPRA	Madison Bay Marth Creation and Tenacing	1E-0051	MC, TE	NMFS	TERREBONNE	1019	2	Pendng	\$39,021,430	The goas of this public ter to create and south marsh and associated eighe habital and to promote conditiens conductive to the promote distribution. The proposed terrates will reque the wave entition of entiting manifeles along the fittings of a latest notified the fittings of a distribution of entities of the project would benefit spectrum Mey 1, (1) 9 screep of their marsh and open water over the 20-year project file.	á
CNPPRA	West listle Pass lismer Headand Restoration	TE-0652	ě	NAFE	LAFOURCHE	300	NSA.	2012	\$39,422,993	This project innoves the neetlablement of the Yved Beels headland by rebuilding a large portion of the beach, dure, and back barrier mann that one existed. Approximately 8,300 feet of beach and dure were rebuilt.	Ħ
CNPFRA	Enhancement of Barrier Idland Viegetation Demo	TE-0053	φA	(PA	TERREBONNE	NAA	NA	2011	\$919,284	if this project is to first several histmotigies or products vegetation. The project focuses expends any on enhance belief particum amarum) and severals (Link periodem amarum) and severals (Link and Subsective (Avicenties getermanis).	ĸ
CNPRRA	Certral Terretonine Freshwater Enhancement	TE-0066	NC, HR	NACS	TERREBONNE	458	NA	Pendng	\$17,890,120	The project will restablish battork hydologic and sathiby conclition by reducing the artificial intuition of Oud marrier waters via the Drand Plags tho the Ceathal Ferribionse marthes white enhancing the influence of the Alchaldage Rheer vallers into the area.	34
CMPPRA	Lost Lale Marsh Creation and Hydrotogic Restoration	TE-0072	HR, NO	USFWS	TERREPONNE	743	100	Pending	\$35,873,726	Project goals inclose 1) restore as monofast festure of structural framework between Lake Plage and Bayou Decide to present the consensers of florat from white bodies. A) incluse the definery of the win-west, wind submits his manifes noth and west of Lost, also, 3) reduce fifth in open water apparatus or enthicking of a firmer offer.	W 35,30
CNPRR	Terrebonne E ay M'arsh Creation - Nounshment	TE-0003	NO	USFWS	TERREBONNE	363	NA	Pendng	\$20,664,401	Project goals are to create 365 areas of tetrifical means in analow spon water and nourish 298 areas of tragment of murah within the project poals are included with an exchange between Terestorner lay and tetrification from future or small storm everts and to reduce resisting along 16,000 ft of the inschinal "Ferestorne flow storieties."	×
CWPPRA	North Caffish Lake Marsh Creation	TE-0112	MC	NRCS	LAFOURCHE	392	NBA	Pending	\$30,325,016	Definents will be high addedly diregget from Caffish Lake and pumped his positive to create approximately 415 acres of marsh habitat and nountly as additional 251 acres of marsh habitat	×
CWPPDA	Island Road Marsh Creation & Nourishment	TE-0117	N N	NMFB	TERREBONNE	312	NS	Pending	\$40,435,207	The prignised project's primary feliative is 364 autors of creative pather murch and 19 acres of nountered same manth address-to island. Took schemort with because the pumped from a borrow source near Later feliativ. Haff of the newly constructed mansh (182 acres) will be planted following construction is stabilize the justicim and reduce time for full wegatition. The project would result in an experimental not across to 312 acres over the 30-vers received file.	*
CMPPRA	West Fourthon Marsh Creation	TE-0134	MC	NAFS	EAFOURCHE.	304	NBA	Pending	\$29,037,768	The goals of this popiect are to create and sourth 614 acres of mark), by pumping sediment from an offstore borow site in the Out's season has project worker the insert habital and increase the knyewly of existing historia. The project was also help protect the access or existing the project was also help protect the access of insertubles of Port Founthin.	34
CWPPRA	Bayou DeCade Ridge and Marsh Creation	TE-0138	MC	NOAA	TERREBONNE	382	NBA	NOA	\$31,352,831	The project goals are to contruct 11,726 freamfelt of roge acorptive bother forther bank of Beyou Decade and credits and/or nounts aconstructed 501 screen of intermediate march along the northern bank of Beyou Decade.	34
CONFINA	Vermillon River Cutoff Bank Protection	E0000-VT	9.6	USACE	NOTI WEEK	202	NAA	1995	\$2,047,479	includes profer and bridges on bilte and profe	38
CWPPRA	Cote Benche Hydrologic Restoration	TV-0004	Œ.	NACS	STMARY	2223	NA	1993	\$10,093,902	The primary objectives of the project are to reduce fifther shoreline loss from were encision or solare statistics and ragio I stata exchange to pervet command interior mark, develop a third ologic reprime conductes to sediment and subtent deposition, and to "see astallan vestation is encodor area."	10 38 10
CWPPRA	Boston CanalVermillon Bay Bank Pretecton	TV-0009	98	NACS	VERMILION	378	NIA	1995	\$1,843,748	The project involves dtalkizing 15 miles of Vermition Day shoutine and preventing further repression of the Boaton Carus banks. A lates 21 formitien Bay shoushee approximatify 25 feet wide by 15 miles king vins planted with single stems of Spattina abendice at 3 foot miteration.	38
CMPPRA	Fredhwiller Bayou Bank Stabilization - Belle Isle Canal to Lock dinactive)	0-1100-AL	48	DONCE	испинал	NW	NA	hactive	\$1,101,738	The protect was intended to conduct a rook die to protect the east shorethe of freshwater Beyou Cania. The project was subsequetly designates as nache by the CMPPRA Task Farce.	30
CHIPPEA	Little Vermillon Bar Sediment Trapping	TV-0012	Ħ	NAFS	VERMILION	17	NAN	1999	010'010	This police is designed to outenze the retention of suchreat from the Ashabalava Plave to create new marsh areas in Lille Vermiton. Bay, Oreoged material was placed to creat+emisgred marral, thereby protecting the existing sharelete from wind-fedux at ware erosion.	. 38
CWPPRA	Cakskvery Canal Hydrologic Redocaton, Increment 1	TV-0013-A	¥	NRCS	VERMEJON, IDERIA	168	NIX	2002	\$2,925,216	The stateshe of the project is to improve hydrology, viduce stal fluctuation to maintile march loss, and provide profection to critically snoding bunking and showless and	38
CINPIPRA	March Idand Hydiologic Restoration	TV-0014	ž	USACE	IDERIA	401	NA	2001	\$5,143,323	The akticitive of the project is to abolize the notheadern shoretive of Nara's idend, including the nathern shoretive of Lake Gaed, ask to highly be highly and pies climate at the notheast lend of it amen is after ordinast lend of it amen is after ordinast lend of it amen is after notheast lend or it amen is after ordinast lend or it amen is a reck cliste.	r 38
CMPFRA	Bedment Trapping at 'The Jawa"	TV-0015	TE, VP	NMFS	STMARK	1939	NA	2002	\$1,853,792	The objective of the project is to include addinate biologic bocreate emergent vegetated wettends. This was achieved by constructing weatered to the project eves wettend to the project eves.	30
CNFFRA	Chanses Au Tigre Sacmert Tripophs Demonstration	TV-0616	SNT	MRCS	VERMINON	NW	NSA	2001	\$654,999	The absence of the project into fact but a conceptual device designed to true outment from the guif tutes, dabilitie the on-point arcsion on Cheniese au Tipre and build up contions of the coadine the theology even.	30
CNPPRA	Lake Portage Land Bridge	TV-0617	86	NRCS	VERMINON	1498	NO.	2006	\$1,101,129	The abjective of this project is to prevent the shoveline south of Lake Pichaga from breaching and creating another pass from Vernillon. But to the Out. The project consists of backfilting a canal and amount of he lead in this.	30
CMPPRA	Four Mile Canal Terracing and Seamert Trapping	TV-0618	TE	NAFS	IBERIA	25	NAN.	2004	\$2,867,185	This power the tubes contruction and planting of the spie wife smooth continues alternates within Little Wither Lake and Little of the cust of the continues and builded and the spie washing the continues and the spie spie washing the spie washi	38
CWPPSA	Weeks Bay Marsh Creation and Share Protection Commercial Canal Freshwater Recirection (Fransferred)	TV-0019	48	USACE	IDERA	NAA	NA.	Transferred	\$10,227	The goal of the project is to create mouth is restore land-bridge separating Weeks flav and GMM. In 2813, the CWPPRATask: Fore bandered implementation of the project to parish at alkaholders.	30
CWPRRA	Bayou Gale Dhorethe Protection (Deadhortest)	TV-0020	8P	NACS	STMARY	131	NBA	Deatherzed	\$32,103,020	The goal of the project was its protect an existing sharestne with aparox 35,715 feet of rockstha shareshie protection. The project was seasthcread by the Crivity RA Task Faces in 2014.	38
CWPFRA	East Marsh Island Marsh Creation	TV-0621	OM.	NRCS	IDERIA	1159	NA.	2010	\$21,215,936	The expense of the project was be create approaches you actively the strategies and which The respectively of the project are a his being convented to come water, primarily because of approaches the strategies of approaches the strategies of the project are a his being constructed to come water, sometime the strategies of his project of the strategies of approaches in mark was readed from the strategies of the strategies o	ac us
CINPIPRA	Cole's Bayou March Creation	TV-0063	MC	NMFS	VERMINON	391	NSA	Pendng	\$27,001,223	The project consists of creating/nourbing-march habitat and increasing freshwater and sediment inflow nito therein wetlands by missing-reservations are a high coope.	30

d breatwater system in Lake Portcharba
An insignmental preservable or seem in Lane Profession
The project specifically risigated for damages electric from construction of the Lake Pontshartrain
This poject investigates an suite of redicration measures that are collectively intended to restore some of the accessiven damaged by construction of MR30.
yot is for efcelon confroi and habitat responsible in the Loss Lake area of
This FBMA project involved the repair of segments of the wealem hank of the Houma Navigation Canal camaged by Hums are And n 1992.
ve vertere with the USACE in the Befreick bit use of developed makinal from a cheduled Hoursa edging project. The island was repained to pre-Humbarbare Andrew condition and planked with
This FEMA priject closed a major breach uneated by Humicane Andrew, and provided a 200-fost-wide elevated mursh platform to stabilize the istand. Vegot attentives also planted to stabilize the saxid.
This FEMA project constructed an elevated maint paliform in an area of a Terretorne Paint, project destroyed by Huriciane Andrew in 1992 Vegelation was also planted to stabilize the sand.
nastree brush fence was repaired. This project was damaged by Hunicana Georges, Hurit are Earl, 1988.
his FEMA project repared sand fenong on Timbalim Island that was destroyed during a series of tropical storms and humkanes in the At 01 1998.
The FEM private replaced to passe on water complete by Tamaged dump trace attent and hurs, area in the fall of 1999. It is related to the new Hopping as cultural was complete by Tamaged Barrier Corpological Government. The Females of the new Hopping and cultural was complete by Tamaged Barrier Corpological Government.
This Charle Appetenced to be partieg of mean trapediation to the cube and care forth schools of this state in the parties of the parties of the care o
Their Ellah project incoved be retailation of send fincting and the planting of vepetation to repoir seels afWhaley island, camped inquire and extensione dampile and filed. This area is part if a CMPPRA, project ones and CMPPRA fundis vereing incomes with the EBM fundis vereing and common dampile.
This I EMA project consider of repair to areas of stone pairty, stone dioes, and minor repair of nasigaton acts on the Marth Island Inchrology Restoration (TV-14) project damages dusing burns are Lik in 2002. The project area included most martenance work pair for CAMPPRA.
This FEMA priject consistes of repair to areas of stone pairin, stone slikes, and minor ropal of navigation adds on the Cote Blanche ripdologic Plate according to project damaged dusing harris are Lill is 2002. The project are included minor mantle and work paid for by Charlifes.
has Eaks preject consists of repairs to the strictures of the Cameron-Crocke Manharance (CS-04s) project that were damaged by turicane Pitain 2005. These structures are located at Grand, Peccel Lambelt, No Name, and Mandrore Berout.
The replacement of 48,000 linear feet of sand fencing on the Holy Beach Sand Management (CS-31) to Honicare Plea in 2005.
This Filks project consists of repairs to the water corton structure of the Hopedale Hydroopic Respication IVO-20 project this was stempted by humane Astribus at 2004. Repairs were made to demayed fercing reliefs, and displaced repris, and a lost portiable formatic art tudent to been produced.
The goal of this project was to remove debris from aproximately 759 aquare miles of Lake Ports harbain
This FBMs preject repaired damage to the Mortegat Wedend (TE-01) project that occurred during Humbane LB in 2002. The project conceted of refuncionistics and receives included the Technology of the between mission.
The striet is surretby designed to privide 100 Year protection levels is the project area through the construction of levels to the 201 protection levels and T-Wasts and other devictions to the 205 protection levels.
The NOV project censists of 24 areas of work covered by projects NOV +12, NOV 5-16, NOV-NF-VH- 4 is 6, NF-03, and Talafose or Justian (TFO), Continuing Projects F1-3, 15, F17, and P24 has exclose the section of the Projectments Farish Furnished Protection (Annual Protection
The Grand Isla and Vizeler Furmane Protection Protect consists of a 75 mila vegetand sand cure acheoling the length of Grand sile's guilf short, a jetty to stabilize the western and of the Island & Carnada Pass, and an offshore breakwaller system.
is project protess the installation of various ingrovement features to the interior pump stations of Orleans and Jefferson Paristi under a Funicions and storm Damaga Risk Reduction System (AEDRRS).
project involves the mplementation of various resonance measures to migale wedend impacts associable with the of the river lases and vicinity overly project.
This zoulet is being ledge USACL and is 100% federally Sureed with \$10.1 Million albituand by the U.S. 4th Supplemental proportionists is a furnitioned from project. It provides fire about 101 acres of mirch creation and 122 acres of mirch resolutionists. On the sealth shows of 4th per 4th per 100 acres of mirch creation and 122 acres of mirch resolutionists.
This project is being lad by USA/CE and is 100% federably fanced with accordinately \$19 to life in allocates. E provides for about 1300 interests and or allocated projects of projects in proportionally a proportionally 13 accordinately within a high sector to Beyou begratte State Park, 23 acqualities of representatives the State of the projects of the project of t
This power is being leidly USACE and is 100% statesh funder with approximately 2.0 killion allocated. Euroriteis fur the creation approximately 24 areas fur flux hands, Additionally. Tappariment and investigate combining a neighboring boal project of 10 acres of menhindren interpretation and supplemental Andrei See ablated 40 perces.
This project is being ledby USACII and is 100% federally surveid with agoroimskip \$14.5 Millen alcoaled. Toroxdestor about 100 teres of material reproduss ageroomistie 50 acres of awartip, 60 acres of awartip, 60 acres of oracles maren. The 20 acres of brackish maren.
winds in being led by USACE and is 100% federally funced with approximately 530 Million also takes. It provides for about 730 million for finishing the superconductive to 18 million (ELH window) contrined, 140 acres of intermediate marrial, 70 acres of intermediate marrial, 70 acres of setter million.
This zooject is being lactly USACE and is 100% federally funced with \$10.1 Millen altocated by the US. 4th Supplemental Appropriates as a function Risk Resulton to spoiler. It stronges for extending water from the Observation flow the 4th Appropriate Charles be challed by the revenent of the Island, sederated below water this Des manch notth of Lace Lavy is credit to half and review margh. Jedenated in This project was originally included as a strict under Chivin PHA. 16-10 Auf enriced to allow USACE to fand 6 as a nation or nation.

COOR Description lateral	A									
	Number Number	lype	Sponsor	Parsh	Bimefiled	Levie Levie Inserved	Companies	Total Budget	Project Description	Plansing Unit
Lake Postenstrain & VeinW. Lake Borgne Surpe Barrier LPV-BetsC-02	PO-0055	ž	USACE	ST DEPNAND, ORLEANS	NIA	N	2013	\$1,134,000,000	This project includes the controllion of a Humane Surge learner across the 3p 31 Likele Barger connecting the MHOG levels south of Bargou Blemenue with the GWM levels East of Microud Centai with ficologists at Blacou Berneriue and GMMM.	-
BELA	PO-0857	10	USACE	JEFFERSON, ORLEANS	NIA	NIX	Pending	\$1,170,974,588	This project consists of shampe and jump station projects within Jefferson Parish, and Oreann Parish, on both the east bank and west bank of west bank of west	1,2
Permanent Closure of Canaband and Pumps	PO-0080	9	USACE	NOSHBLABY 'GNVJTHO	NA.	0.34	Pending	\$614,800,000	This project, authorized under Public Law 109-234, hrohes the design and conditrotion of a permanent protection system for the judistic and a song 17th Street, Crieans Avenue, and London Avenue and install pumps and obsure structures afor near the basedood.	
West Chore Lake Porte harrain	n Po 0062	9	UBACE	STJOHNTHE BAPTIST, ST CHARLED, 6T JAMES, ASCENSION	NAM	- 74	Pendra	6090,504,508	This project Profess the assessment of funk are and storm reduction measures in a study area bounded by the Exernal Carre Spillway to the cost, "the wiseassesses fixer to the south, Lakes Portschatch and Mourepablo the instituted for the CLL James Parith Anderson sention Parits first to the west.	141
Lake Portchartrain and Vicinity	y PO-0083	2	UBACE	ST CHARLES, JEFFERSON	NW	128	2010	\$3,852,000,000	Lake Procchaifean and Vicinig (LPV) is the fruitcare pictectian program this involves approximately 30 numbrane protection projects in East Jefferson and St. Charles Publishs.	+
Lake Portchaffan & Vicinik, Bestrook Lock LPV-IPNC-31	PO-0064	9:	USACE	ORLEANS	NW	5:0	2012	\$157,156,414	This project consists of a gata closure attrictive across the industrial cannal approximately 500 it South of the Ted Hickey Bridge at Lake Poricchestanto work in conjunction with the Bridge Stages Songe States.	-
HISDRING MEGAINS LPV	PO-0121	MC	USACE	ST TAMMANY, CHUBANS	1000	NAA.	Panding	\$85,000,000	This UBACIL project anowes the increment alon of various redocation measures to migals welland impacts associated with the construction of the Lake Porticinarian and Variety (LPV) project.	
LPV Tark Force Guardan Miligatos-Bayou Barwage	PO-0145	WM, VP	USACE	ORLEANS	28	NOX	Pending	\$710,080	This project is being led by USACE and is 100% federally funded with approximately £2 M litera alocated. This project is mitigating approximately 14 acres due to emergency levels work that utbood 2 betrown gits of about £7 acres, a provided for the emmission of non-value beas with epoples from the change, and then the replacing of 60,000 beas and declare of native species, or taken and alocated and an advanced and others.	-
Prenously Authorized Mispaton LPV: Manchas	F0-0148	MC, SP	USACE	ST JOHN THE BAPTIST	1329	NSA.	78/1905	\$22,985,958	This project is being autor USACE and is 100% tearersh succedivet apparationary \$21.3 telline, accented liptrodes for concentrated. Sees with rock and fill sees with cheeper material D match the CPRA Tuchs-Cove project successful, The project is teleoded to seath insure and reduce arrotted.	
LCA Small Bayou Lafourche Relatroduction	DA-0670	ro	aoven	ASSUMPTION, LAFOURCHE	NIA	150	Pendng/uphed	\$133,500.000	The project will use a small dwerson (assathan 1000 citig to rentroduce flow from the Mississipp Hower into Bradou Lafourstier. Project post includes generated and nutrients readed to reduce salesty, dimutating plant protokthing, and reducing whether flowers between the Laboursh and Termonime. Evide form the budget supplies of 2008 will be used for the state's codi- table receivement. "Continuous room taken from WIPCA. 2009 textilisten.	8
LCA Medium Diversion with Deck and Dredging at Myrfe Grore	EA-0071	ro	BOYSO	SENERALDONA	NW	NA	Pendngilon Held	\$278,300,000	Authorized by MRNA 2007 as a sediment diversion between 2,500 and 15,000 offi. Organiz modeling affort to ensine potential for models, and mise MRNA and consider the along recomment developed burneds independent exestituough despondent and manis easons, it "subfunded France 2,cost along month MRNA, 2007 besiden.	£4
LCA Modification of Davis Pond Diversion	EA-0072	ro	USACE	ST CHARLES, JEFFERSON, PLACUEMINES, LAFOURCHE	NBA	2	Pendngiön Held	\$68,277,985	This modification poster is authorized to dialy and design the modification of the strusture and or cuttal of the diversion to increase webind related by within the Bardainia Bailin.	
LCA Mosfit aton of Caemamon Diversion	6130-5/3	u,	USACE	STREENAND, PLAQUEMINES	NIA.	NA.	Pendingilon Histor	\$21,000,000	This modification project is althorized to statly and design the modification of the diversion structure and/or out/all of the diversion to nursess wellsats resource outputs south of Calemandry, well of the Missisppi River.	-
LCA Medium Diversion at White's Ditch	0230-63	r.D	USACE	PLAQUEMINES	NW	NO.	Pendngilon Held	\$120,080,400	A middum dwerson from the Mississatel River into the central River aux Chenes was sand a controlled dructure to privade additional Tephesider ruchents, and fine sectment to the area between the Mississack River and River aux Chisries ridges,	-
LCA Baratarii Basin Barrier Shoreline - 2007	LA-0010	MC, 8H	USACE	PLAQUEMINES, LAFOURCHE	NIA	NA	Pendngion Hald	\$363,900,000	The purpose of this project is to provide beach/dune restination and merch creation on Caminada Headlands and Shell slaad.	2
LCA Beneficial Use Feasibility Study	LA-0619	MO	UBACE	COMBTWIDE	PASA.	NBA	Pendngion Hstd	\$100,000,000	This fleasibility Otudy will examine increased beneficial use of dredged material from Fodersily authorized navigation channels.	COASTWIDE
LCA Mississippi Rver Deta Management Study	MR-0816	10	USACE	PLAQUEMINES	NIM	NA.	Pendngion Hald	\$25,350,136	This booked who development is already. Tenneven for featibly exhalation of improved management of fresh water, subjects, and extrement repairtee of the Lower Mississippi River, from the Oid River Control Stututive to Head of Passes, to bettle subject to Cellar, Plan.	1,2
Small Diversion at Hope Canal	FO-0067	FD	30V80	TRITAM) BHT MHOUTS	NW	NOX	Pendngilon Held	\$150,000,000	a emaifrodhwaker diversion (keos than 1900) stoj to is deposiblen, impowe bislogical producibitity, and p ktine nequired costs strace for thes project. If utity fund	
LCA Small Diversion of Corvents' Blind River	FO-0068	r.c	USACE	ST JAMES, ASCENSION	NIK	NA.	Pendngiön Hstd	\$123,140,000	This project evaluates a small diversion of up to 5,000 cfs from the Misosalpai River into the Blad River through a new control struckue to introduce freshwater, eadineerit, and rutheints into the southwast portion effor Mavegas swamp.	-
LCA Ambi Fover Diversion Canal Modification (Transferred)	PO-0069	VP, HR	USACE	NOTERBOOM,	NW	NON	Transfirmed	\$10,760,000	The goal of this project is to reestablish hydrobaje connectivity between Mauropas Swamps and natural waterbodies. The project was vandened from the LCA program and is bang implemented as State project PO-142.	-
LCA Mantan Lans Brisgo Between Callou Lake and Ouf of Mexics	r 76-0067	N C	USACE	TERREDONNE	NIS	NSA	Pendngiön Hald	\$62,600,000	The goals of the project are to praver correction between the gulf and Calbo Lake by constructing schools presents on the gulf and of and buildings submidted the construction on the gulf and of and buildings to submidted the construction of the gulf alone of new opening than the construction to the construction of the constr	ă
LCA Point Au For	1E-0069	48	30780	INNOGSHRIT	NW.	NO.	Pendngion Hald	\$40,300,000		34
LCA Terrebonne Basin Banter Shoreline Relatoration	TE-0070	표	USACE	TERREBONNE	NIA	NIK	Pendngi\(0) Hald	\$133,300,000	This project provides for the expanding of the Timbian and lesso. Combern latent maken than their Discussion and indicate helpton as including the state of the less Demienes (Paccoon latent), salent, from plane, they have been and the control of the less Demienes (Paccoon latent), about, from plane, who haves, and whitee taken). This whole have, and whitee taken). This whole is and the latent and East.	34
LCA Convey Ashafataya Rver Wase to Northern Tereborne Marches	16-0671	ž	USACE	TERREBONNE	NAM	NA	Pendngiùn Hald	\$349,995,500	The projectivecals increase colarge Athindialses Blace influence to central (Lake Boucheaus) and eastern (Grand Bayou) Tembonne maribles via the Oull Interceptal Materiar (GMWW).	×
Carninata Headland Beach and Dune Redomfon increment 2	0A-0143	Ħ	4.92	NOSFERSON,	283	NA	2016	1147,063,507	This project will resolve and protect beach and curve habitat across the Caminada Hexidand through the direct placement of appreciately a families is closely years of savidy material from Stip Shoullien (fishere bottow source). The project foodprint begins near being used as and entered appreciately a make a set bewards Caminada Paice. A sixel of after acres of beach and dure habitat will be settled within a vestional.	N
Mid Barataria Dwersion	84-0153	08	NA	PUADEMNES	000'89	NA	Panding	in Development	The MIBSD is a lacys and complex of wiveles and restoration project. WIBSD, when in operation, would tanistic electment-basis water from the Mississip Private rough a selectorated channel reagily is. In mississip, show entitles to part the active word or nice. Baratana Basis. The projective motors the natural delays and electromistic protocess along the Mississippi Shari near River Miss 60.7 but restor in the MISSD would be expected to build and neutrals ten'to their Broundrid etters of cities considered sovers a 50 year period, being a top contributor to the 2012 Missier Plan's goal of inchering no net loss of tiend in the Matrie.	61
Lower Baradara Diversion	EA-0163	90	WA	SINIMIODYN	In Development	NA	168	In Development	The jurpsed of the project lists conflict a endment develope to blancport destinant from the Missingspillere mis the Lover Bacilians, base to resistante metter, by covering a notifier to busis, solding and missing and missing the project intends to busis a seament develope in the keywiser Bacilians base, we ket for Emples around SQ,000 cits capacity.	2
Lower Breton Diversion	PS-0023	98	NA	PLAQUEMINES	In Development	NA	NUN	In Development	The purpose of the project lists constant a sediment deversion to transport sediment from the Mississport Res the Lower Briston Source Bears in readable histogeneses in outside by build, substant, and markin widelands. The project intendep build a evaluation steering in the hower Briston Sounds in an oviville of Basic Basic an anomed no find it can active.	

	+	ventain 34, 39	naming, bird and fish 3A	oject was 2	and 3		80								S S S S S S S S S S S S S S S S S S S	 										
	The purpose of this project is to evaluate a sediment diversion located in the ricinty of Withe Dish around 75,000 cts.	nert from the Abchafalya Piver to dredge the GWW and of the flowerfrom Alchafalaya River to 1	ation of durin, supratical, and triestical habital, such that the two presently remaining, connected and the historic latest footporing re-less abitished, which will improve bird and fish and provide hunts are surge protection for weeken Latourche Parisb.	ching of the barrar shoreline by resoring the dune and marsh platform. Froj	A Mind I for ton Mind Bon.	respect of correct to an ease in the Aurai or construction. This popula arms to respect the integer of the See and the survainfing area, and this population to respect the state of the See and the survainfing area, a will crede 53d arres of march and 372 acres of dune and	regards outstand to a war seek into war and according to the property of the page, and the page of the	response cut in the state as the interval of the state of	Presence corrections as the sear hitch, which is considered and, reduce wave entropic within the bay anea, and westlain produced area to experience the relation began the surrelation produced area to experience the baseline Bay and the surrelation produced area to experience hobbits to Endan Bay and the surrelation area is well revealed 100 to Endan Bay and the surrelation began as the surrelation began to the surrela	The project agent for the lat we see from A units the controlled. The project agent for the builder to Endelliand Wind barrier stand, reduce wave entropies within the bar area, and excelled in project agent for the standard seed that the project agent of the standard seed that the project agent of the standard seed that the project will reduce be table to be added the the standard project with reduce suitable colosius waters of off the fig. 4-11 also that the standard project will reduce the standard project with the standard project will reduce the stan	but we seek intrust in transmission and the state of the seek interests and seek intrust which are not considered as a seek intrust which are not considered as a seek intrust of the surrounding uses, it will crede 233 arcsect mouth and 372 accessod during and at the Eastern Board and a seek of the seek of	The Steel lands West barrier stand, reduce water enropes within the bay area, and any and the surrounding area, it will create \$38 and the surrounding area, it will not be a surrounding area of the within earlier to reduce a restorate the surrounding area of the within earlier to reduce a read of the surrounding reduced and the surrounding area and the stand who personned receives any of the latestocker. The suited with buy because the surrounding create a reduced to compare and readment earlier in reduce with the surrounding reduced when the surrounding reduced with earlier to reduce a reduce and the surrounding surroundings from the stouthern it will surrounding surrounding stems to surrounding surrounding surrounding surrounding stems from the surrounding stems for a surrounding surrounding surrounding stems of dames and entoning stems for a surrounding surrounding surrounding stems of dames and entoning stems for a surrounding	A fusion to commonous of a source and a source a commonous control to be area a not be a source at source and and the commonous commonou	reserved cut a train to as an east into A mars no continuous. The project will create the impact of the Sea and the surrounding most, the fource wave entrigies within the bay and a beginning the bay and the surrounding most, the project will creat a sold and a sea and a sea which was not continued to the sea and the surrounding most, the second seco	Personned among the state of mainth building off the Ball state of	Personned arms to an early the series of maint building off of the 18-42 Lake interaction of the series and se	The project with control but we seen from Autoria construction and asserting and control but we seen from the holds to Beatland Bay and the surrounding years, a will create 828 and sect meant and 37 acres of durine and bake. This project will create 00 acres of meant building off of the (8-4.1 Lake Hermitage Christ) which had been surrounded by the surrounding the control of the surrounding the surrounding the surrounding the sur	A function to construction. A function of controlled barrier stand, induste wave reinigies within the bus artes a sink between the construction and a function and the surrounding stands. Existent of the surrounding stands are the white the surrounding stands are the surrounding stand the controlled and stands we be surrounding the surrounding stands and the controlled and stands we be surrounded as 42.4.2.3). This was the notice for the surrounding stands and the surrounding stands and the countries of the within section of the within the surrounding stands are stand was been surrounding each as surrounding well as the periodic on the production of the stand of the surrounding section will be surrounding sections. The region of the surrounding section was the surrounding section of the surrounding section will be surrounding to section with the surrounding section of the surrounding results are surrounded results. The surge of the surrounding section will be surrounded to the surrounding section of the surrounding section section of the surrounding section section section section of the surrounding section sect	Paragraphics and control to an early large and the authoriting and all this polect aims to be stated to an early interest and the paragraphic process of means and a series into a many and the polect aims to be stated to the surpainted and the paragraphic polection products are presented to the paragraphic polection products are presented to the paragraphic polection and about the polect and products are presented to present and the paragraphic polection and and a product and products are products are products are products as a series of the state of the paragraphic polection and products are products and products and a product and a product and products are products and products and an are products and a product and an are produced as an are products and products and an are products and are products and an are products and an are produced and products and are products are products and are products and are products are products and are products are products and are products are products are products and are products and are products are products and are products are products are products and are products are products are products and are products are	This project are region to a sea with a sea with variant contention and and reduce when entropies within the bigs alone and seasons serviced by the seasons are residued to a season of the season of	This project was the series to provide the broader of the Sharing Man, and a series accorded to the series and	She illand for che illand and a second to the control of the second and and and and and and and and and a	A warrant to common calculation of the A-12 table formation by the Armson of the A-12 table formation and and the submitted by the A-12 table formation of many and and the submitted by the A-12 table formation of many and and the submitted by the A-12 table formation of many and and the submitted by the A-12 table formation of many and	A fursal to construction area is with treate a 228 areas of must hin bote area, a fairle flated by the construction of the standing of the surranding parts it will treat a 228 areas of must his best surranding by the surranding states of the surranding states and the surranding states of the surranding states of the surranding states of the surranding states of the surrange states. 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opera is a veracise a segonisticamismo bocase an are vo- popera so utile forestwate and execute from the Alchah my properation of the project televisho devote the Christopha to increase heatwater and existent from them the pro- ter and devote and existent from Alchaham we and devote a vertication of during supportant and it cert	refitato utilen from the Athain bonne Basin. The project intendato design en en edward nersere freshvater and eledrenet flove from Axhafalo, and desagn a restoration of dunk, successed, and treat and desagn a restoration of dunk, successed.	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This Section (2,941) 55 project him edigizated the issuebility of beneficially using the shoped material from the bar channel area in lieu of the Ocean Christyck waterulDisposal (life The project area is approximately 35 miles south of hoursa. Louisinns at the month of the nanoption channels maken the month of the sangition channels maken the tendention east. The construction exhaulted this project was expedited due to the impact of Hericane Lill and though Springstone.	Interference, so the extent possible, the manufactory of the area A retainton in issuits has and improved water are expended by cute following project implementation. 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The maximum discharge of the appoint is 2,100 if s	This posject freckwest the confluction of aging paralate spaces to distinct water from the Wissoscopia libuser size the adjacent wetlands the west side of their her rear Points as to Habria, Louisina. The mannion spicktape of their spoont is 2,100 th. The purpose of this project is to restore Ouean Benesidated as a brown posician (Potec arris occupantial) moderny. Director makes and the proposition on recease to seem 10 kg.; and a size of the was manabled actived the terminent of the regions at and in 1902? In any time the doring water the storeign of the size of the contraction of the size of the contraction of the size of the size of the contraction.	This poset breakes the conduction at each parales uptons to divert water from the Missosoppi River prior the aqueen well-end to find west slope of the spriors is 2,100 th. We was slobe of the neutral Poster by the Missosoppi Poster properties 2,100 th. 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ONGOING PROTECTION AND RESTORATION SUMMARIES

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ONGOING PROTECTION AND RESTORATION SUMMARIES

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ONGOING PROTECTION AND RESTORATION SUMMARIES

				- 1				OLUZION S	ECHON AND RESIDING	O I CO COMMENTES	
CPR& Program	Name	State Project Number	Project 1ype	Sponsor	Parish	Acres	Miles of Lewis	Construction	Total Budget	Preject Description	Plansing Unit
STATE	Yellow Bayou	TV-0002-B	8	NIA	STMARY	126	NA	1992	\$134,500	The abjectives of the project when to market in the inflight of approximately 2,000 at no of referbe must between Jackion Bayou and the Better-former on Caval and to statice of 145 face of the Earl CORE Barrone Bay storette. This was achieved by constructing an years death bern alike mit to the valet's egges to reduce shooten.	38
STATE	M anh Island Control Structures	TV-0108	N N	NWA	IBERIA	643	NA	1983	\$453,500	The abjectives of this projectivene to induce the rate of land kids, revegatable shallow open-water areas, and its reside watershift food which he have remissioned in the Landscape studies of destinated in College of 1819 at 1819 of which the Williams of College of 1819 at 1819 of others will be controlled extracted by the suits and the surrounding water bodies. Will the management arits, canal stood banks were treached and discuss were conducted to be that ware more man behavior in manh pends.	38
STATE	Freshwiter Bayou Bank Protection	11/20/11	98	NA	ногимызл	241	NAN	1004	\$2,077,025	This project comeines wegetaked were maintaining the physical integrity of missions that separate Freishwater Bayou and inferior water books. The domestand project feature consists of the conduction of 24,000 linear feet of rock clais, extending north its the conduction of seeing a seeing seeing and the seeing made to an extending seeing and the seeing of the conduction of 19,000 linear feet of rock clais, extending north its the serior and the seeing seeing seeing and the seeing seeing seeing the section of 19,000 linear feet of 1905, and 2001 linear the seeing	30
STATE	O skalitvery Structures	TV:0013-B	9.8	NO	VERMEJON, IDERIA	168	1901	2000	\$3,107,735	This posiect enhans at the adjacent CWPPRA-unded TV-13s project by industry low-sid structures at the outfall of Oaks, and Anery Canasis to rediscit none water flow through the position of Bayou Pietle Anse south of the OWW.	38
STATE	South Central Coatta Plan	TV-0154	10	USACE	ST MARY, IBERIA., ST MARTIN	In Devaconing	paukkagu	Pendry	\$970,000	The South Central Coastal project was authors of \$970,000 is 2009 supuls fands. The project team, which includes the Office of Coastal profesion and Residuation, Silk and Persidual and substitution and substitutions after the affect profesion compared to the profesion of the project of the profesion by the ord of 2010. The internation will be used kits start the project with the US Amyriogo of Engineers. Once study authorization is obtained from the US Congress the project will progress to the feathering proce.	90
STATE	Morgan Cityl St Mary Flood Protection	TV-0655	9	NIA	STMARY	NW	4.5	Pending	\$3,870,800	This project will provide flood protection improvements by raising or improving over serion miles of the current leves or serion in the Morgan City area.	38
STATE	Det amtre-Avery Canal (Elkb)	TV-0657	2	NA	IBERIA	Nas	8	NA NA	\$970,000	This poject will design and imprimer affoot coetol studiuse for the Decambre-Avery Canaliust south of the Infracountality atemas. The constructurable this propriet affords the forest floor for the Canality attempts and or the Decambre-Avery Canality should be included to the Canality should be included.	30
STATE	Bayou Tigne Flood Control Complex	14-0075	2	NIA	IBERA, VERMILION	NIK	Not Avail	Pending	\$6,280,000	This project will use utilize \$6,200,000 of huds the abicabed from Th-50 to design and combust a parright at those a protect operators at a object and page across larger, unreful reduced statisfies the appart will help infigite printing and tooking to the across the across those also also stories a term a least try and many.	30
STATE	Surplus Freshwater Bayou Bank Stabilization	TV-0676	8.6	NW	VERM UON	Not Available	1004	2010	\$1,300,000	.000 remaining from the ME	30
STATE	Ountana CanaliCypremort Point	TV-4355NP1	9.6	NA	ST MARY	25	88	1990	\$1,316,610	The project features approximates 2,550 linear feet of rock breakwaters along the Vermition Bay sharefre and approximately 3,275 insar feet of forestone nock clee along the Vermition Bayd unrane Canal intersect and the south bank of the Quintina Canal	30
STATE	Beneficial Use of E10 Twin Spain Debris (Deauthorged)	NAM	TO	MA	ORLEANS	NAK	NSN.	Deadharked	\$1,500,000	This project involves the use of Twin Span Debut as a form of choosing prodiction for the Dayou Saurage area.	+
STATE	East of Harvey Canal Intermi Huricane Protection - Phasel	NAM	2	NW	JEFFERSON	NIK	NA	2003	\$4,800,000	This project inclosed this inclusions of a combination of exact loss and earthen flood protection, utranslet to an elevation of 10 0 was also the east side of the latest Combined to the estimate the west end, to provide internationary constitution of the HCDPRS system.	2
STATE	Raising of LA.1 at 0 oben Meidow Floodgate and Completion of Golden Meadow Lock Studden	NA	2	NA	BHOWNOW?	NIA	NBA	2010	\$18,000,000	This project funded the rising of U.A.1 to the 100-year flood elevation and to complete the lock in Blyou Lafourche, both critical alemands of the Lamse to Godden Meadow Hureane Protection Sir deni.	2
STATE	Raising of LA 23 at LaReusable	NIN .	9	NW	PLAQUEMINES	WN	NN.	2012	\$1,200,000	This project innowes raising LA HM. 23 to the elevation of the adjoining La Paussie Outhor guide levees, where the highway crosses those guide levees, LDCTD parformed the angiveering in house and let contracts to complete the project.	2
STATE	Blay Welsh Disposal Site (Hourna Navisation Carab	NIM	WO	MA	TERREBONNE	NIK	NAX.	NAM	\$330,000	The purpose of this project is to pre-clear the Bay Wesh disposal site adjacent to and east of the Houma Navgation Canal.	34
STATE	ChaberfRingLevre	NAM	9	NA	TERREDONNE	NAM	Not Available	2000	\$630,000	The project consists of the design and construction for a segment of there a vount the Chateer Medical Center in Hourns, Laurianna. The propage for any ever with surround the Chateer Medical Center and will provide flood britection for the the life abovergo operation. Jurns possible flood events.	×
STATE	Wine Island	MM	WO	NIA	TERREBONNE	NIA	N/N	2007	\$2,800,000	The purpose of this project was in beneficially use material from the dresging of the houms Navgation Clinial list Charrell on Wine stand.	34
STATE	NRCE Bomes Production Program	NAM	<u>a</u>	NACS	COMBTWIDE	NIA	NON	NA	\$50,000	The IRROSLENBUCKO Biomass Program is a multiplear programmatic mitiable is accelerate the collection, testing and release of important cuestal wideled nativolation glants. This stormes Program began in 1000 is reclinication with the LiDHOVINO Emish Drogs Program with emplassion print performance and gladic alled gledgled electronic This program is an important coastal institution makes that is abstracted as coastal vertified a storlist controller.	COASTWIDE
STATE	NRCS Bomess Podution Program	PAIM	a's	NWRC	COASTWIDE	NW	NBA	NIA	\$1,552,100	This multi-year cooperative agreement stands the stady of endernic wetland plant productivity, with the goal of identifying specific inharmonisms confidence to the following specific inharmonism growth of a number of varidates 6 is, cuthority within four plant species. The information statused is intended to facilitie matching plant species and varieties to appeal environmental constitions at vectoration sales, thereby revealing the inharmonic of species of secentific very afficient.	COASTWIDE
STATE	NRC8 Vegetative Planting	NW	٩	NACS	COASTWIDE	608	NOA	NW	\$338,858	This is a coastal registable partiting programmer is implemented annually and mickes the installation or registable plantings in selected areas where registation is needed.	COASTWIDE
WREA	Davis Pond Freshwater Diversion	EA-0001	5	USACE	STCHARLES	33080	NA.	2002	\$120,000,000	The autorise of this project is to martain and exhance the actifing accological framework of the Bandaria Bash by providing freshwater, usinets, and sectment. This will counter saftwater naturon and halp offset ments supardence. This prosect can divert up to 10,350 and sectment.	2
WREA	Caemanon Freshwater Diversion	88.0008	FD	USACE	PLAQUEMINES	16080	NO.	1991	\$24,818,900	This project directs freelywater and its accompanying nutrients and sediment from the Missessipsi River to coadai bays and marshes in Breton Scundout fish and widthe enhancement. This project can dwert up to 8,000 cubit, freet per second.	-

Notes

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PPL: Priorby Project List (as authorized each year by the CWPPRA Task Force).



Appendix B Three-Year Expenditure Projections

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

.	•		,		Project Total
Project	Project Name	FY 2019	FY 2020	FY 2021	(FY 2019 - FY
ID	,				2021)
Engineeri	ng and Design (P1)				
BA-0171	Caminada Headlands Back Barrier Marsh Creation ¹	\$0	\$0	\$0	\$0
	Caminada Headlands Back Barrier Marsh Creation				
BA-0193	Increment 2 ¹	\$852,977	\$0	\$0	\$852,977
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
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	\$571,037	\$244,730	\$0	\$815,766
ME-0031	Freshwater Bayou Marsh Creation	\$10,258	\$4,637	\$0	\$14,896
ME-0032	South Grand Chenier Marsh Creation- Baker Tract	\$91,161	\$39,069	\$0	\$130,230
PO-0075	LaBranche East Marsh Creation	\$40,350	\$0	\$0	\$40,350
PO-0133	LaBranche Central Marsh Creation	\$45,947	\$0	\$0	\$45,947
	New Orleans Landbridge Shoreline Stabilization and Marsh				
PO-0169	Creation ¹	\$426,372	\$0	\$0	\$426,372
PO-0173	Fritchie Marsh Creation and Terracing	\$67,615	\$67,615	\$0	\$135,230
PO-0178	Bayou LaLoutre Ridge Restoration and Marsh Creation ¹ St. Catherine Island Marsh Creation and Shoreline	\$1,800,000	\$800,000	\$0	\$2,600,000
PO-0179	Protection ¹	\$1,150,940	\$542,361	\$0	\$1,693,301
TE-0112	North Catfish Lake Marsh Creation	\$1,150,940	\$17,780	\$8,038	\$43,598
TE-0112	Island Road Marsh Creation and Nourishment ¹	\$718,748	\$17,760	\$0,036	\$899,912
TE-0117	West Fourchon Marsh Creation and Nourishment	\$330,000	\$101,104	\$0	\$330,000
TE-0134	Bayou DeCade Ridge and Marsh Creation ¹	\$596,296	\$393,719	\$0	\$990,014
N/A	New PPL Approval Estimate ²	\$3,500,000	\$3,500,000	\$2,100,000	\$9,100,000
	ction (P2)	ψ3,300,000	ψ3,300,000	Ψ2,100,000	ψ9,100,000
BA-0125	Northwest Turtle Bay Marsh Creation ¹	\$20,646,943	\$8,073,472	\$0	\$28,720,415
D/(0120	Troitine of Turito Bay Maron oreation	Ψ20,040,040	ψ0,070,472	ΨΟ	Ψ20,720,410
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	\$550,000	\$7,990,000	\$18,310,000	\$26,850,000
LA-0284	Salvinia Weevil Propagation Facility ¹	\$280,967	\$0	\$0	\$280,967
ME-0018	Rockefeller Refuge Gulf Shoreline Stabilization ¹	\$18,632,284	\$0	\$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	\$11,930,768	\$0	\$0	\$11,930,768
TV-0063	Cole's Bayou Marsh Restoration ¹	\$12,068,795	\$0	\$0	\$12,068,795
N/A	New PPL Phase II Approvals ²	\$1,500,000	\$36,000,000	\$19,500,000	\$57,000,000
Demonstr	ation Projects (P1 & P2)				
	Shoreline Protection, Preservation, and Restoration				
LA-0280	(SPPR) Panel ¹	\$318,565	\$27,056	\$0	\$345,621
Subtotal		\$88,886,075	\$58,713,597	\$39,918,038	\$187,517,709
Adjustme	nt for Outlying Years ³	N/A	\$31,286,403	\$50,081,962	\$81,368,366
Total Exp		\$88,886,075	\$90,000,000	\$90,000,000	\$268,886,075
Surplus E	xpenditures (See Table B-5)	(\$624,870)	\$0	\$0	(\$624,870)
	xpenditures (see Note 1)	\$74,630,825	\$76,289,212	\$76,493,168	\$227,413,206
	d Expenditures	\$13,630,380	\$13,710,788	\$13,506,832	\$40,847,999
Notes:		\$.0,000,000	\$.0,0,100	\$.0,000,00L	ψ.0,0.7,000

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⁻ Estimate based on prior-year PPL approvals; to be replaced with project-specific expenditure forecasts following approval at the January 2018 CWPPRA Task Force Meeting.

³⁻ 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	\$100,000	TBD	TBD	\$100,000
Total Expe	enditures	\$100,000	\$0	\$0	\$100,000
Surplus E	xpenditures for WRDA (see Table B-6)	(\$100,000)	\$0	\$0	(\$100,000)
Trust Fun	d Expenditures for WRDA	\$0	\$0	\$0	\$0

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	\$50,000	\$0	\$0	\$50,000
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	\$4,545,928	\$692,388	\$0	\$5,238,316

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 Proj	ects				
	Hydrologic Restoration of the Amite River				
PO-0142	Diversion Canal ¹	\$352,343	\$131,250	\$1,057,030	\$1,540,623
Capital Out	tlay Projects				
BA-0066	West Bank and Vicinity ²	\$405,000	\$0	\$0	\$405,000
TE-0064	Morganza to the Gulf ²	\$8,300,000	\$0	\$0	\$8,300,000
Projects w	th 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	Expenditures	\$9,270,296	\$225,396	\$1,097,033	\$10,592,725

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

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

²⁻ Project receiving supplemental funding from Surplus funds (see Table B-5).
3- Project is currently 100% Federal. Projected expenditures are for staff coordination with Federal project team members.

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	\$9,527,152	\$0	\$0	\$9,527,152
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	\$7,500,000	\$3,500,000	\$0	\$11,000,000
BA-0075-2	Rosethorne Tidal Protection	\$4,500,000	\$4,500,000	\$0	\$9,000,000
BA-0085	St. Charles West Bank Hurricane Levee Protection	\$3,575,073	\$0	\$0	\$3,575,073
BA-0169	Kraemer/Bayou Boeuf Levee Lift	\$250,000	\$0	\$0	\$250,000
LA-0020	Southwest Coastal Louisiana	\$100,000	\$974,459	\$0	\$1,074,459
PO-0062	West Shore Lake Pontchartrain	\$3,500,000	\$0	\$0	\$3,500,000
PO-0063	Lake Pontchartrain and Vicinity	\$12,253,238	\$1,566,720	\$340,048	\$14,160,006
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	\$6,700,000	\$0	\$0	\$6,700,000
TE-0065-SP	Larose to Golden Meadow- Larose Sheetpile ⁵	\$2,000,000	\$1,741,940	\$1,741,940	\$5,483,880
TE-0113	Houma Navigation Canal Lock Complex	\$0	\$0	\$0	\$0
TE-0116	St. Mary Backwater Flooding	\$500,000	\$0	\$0	\$500,000
TV-0055	Morgan City/ St Mary Flood Protection	\$0	\$0	\$0	\$0
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	\$3,476,750	\$5,476,750
TV-0075	Bayou Tigre Flood Control Complex	\$0	\$1,000,000	\$5,171,222	\$6,171,222
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	\$ 5,806,173	\$0	\$0	\$5,806,173
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	\$2,904,804	\$0	\$0	\$2,904,804
	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 Development ⁹	\$1,000,000	\$151,047	\$0	\$1,151,047
	Levee Engineering and Design Standards Development	. ,	· 1	•	
LA-0265	and Analysis	\$0	\$0	\$0	\$0
Total Expendit	ures	\$124,533,205	\$17,847,474	\$14,189,960	\$156,570,639

- 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.	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 BA-0034-2	Barataria Landbridge Shoreline Protection (Phase 3) Hydrologic Restoration and Vegetative Planting in the Des Allemands	\$4,380	\$19,272	\$11,680	\$35,332
DA-0034-2	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 BA-0037	Dedicated Dredging on the Barataria Basin Landbridge	\$4,380 \$5,840	\$4,380 \$2,920	\$4,380 \$2,920	\$13,140
BA-0037 BA-0038	Little Lake Shoreline Protection/Dedicated Dredging Near Round Lake Barataria Barrier Island Complex Project: Pelican Island and Pass La Mer	\$5,640	\$2,920	\$2,920	\$11,680
D/ (0000	to Chaland Pass Restoration	\$4,380	\$17,300	\$11,680	\$33,360
BA-0039	Mississippi River Sediment Delivery (Bayou Dupont)	\$11,422	\$12,840	\$83,930	\$108,192
BA-0042	Lake Hermitage Marsh Creation	\$18,713 \$14,464	\$76,625 \$29,228	\$12,848 \$21,152	\$108,186 \$64,844
BA-0048 BA-0068	Bayou Dupont Marsh and Ridge Creation Grand Liard Marsh and Ridge Restoration	\$106,264	\$30,520	\$21,152 \$11,680	\$148,464
BA-0164	Bayou Dupont Sediment Delivery Marsh Creation #3	\$24,759	\$3,504	\$10,512	\$38,775
BA-0173	Bayou Grande Chenier Marsh and Ridge Restoration	\$2,920	\$107,846	\$9,528	\$120,294
BS-0003-A	Caernarvon Diversion Outfall Management	\$2,920	\$2,920	\$14,016	\$19,856
BS-0011 BS-0016	Delta Management at Fort St. Philip South Lake Lery Shoreline and Marsh Restoration	\$14,600 \$16,224	\$4,380 \$4,672	\$4,380 \$22,473	\$23,360 \$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
00 0000	Replace Sabine Refuge Water Control Structures at Headquarters Canal,	040.004	05.040	***	010 501
CS-0023 CS-0024	West Cove Canal, and Hog Island Gully Perry Ridge Shore Protection	\$10,804 \$2,920	\$5,840 \$2,920	\$2,920 \$0	\$19,564 \$5,840
CS-0024 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 Bioengineered Oyster Reef Demonstration	\$152,920	\$152,920	\$152,920	\$458,760
LA-0008 LA-0016	Non-Rock Alternatives for Shoreline Protection Demonstration Project	\$2,920 \$5,840	\$0 \$0	\$0 \$0	\$2,920 \$5,840
LA-0039	Coastwide Plantings Program	\$138,324	\$158,180	\$162,852	\$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 ME-0014	Freshwater Bayou Bank Stabilization Pecan Island Terracing	\$2,920 \$2,920	\$7,016 \$2,920	\$2,920 \$22,776	\$12,856 \$28,616
ME-0016	Freshwater Introduction South of Highway 82	\$30,206	\$29,038	\$15,022	\$74,267
ME-0018	Rockefeller Refuge Gulf Shoreline Stabilization	\$11,680	\$76,680	\$76,680	\$165,040
ME-0019	Grand-White Lakes Landbridge Protection	\$2,920	\$2,920	\$2,920	\$8,760
ME-0020	South Grand Chenier Hydrologic Restoration Project South White Lake Shoreline Protection	\$2,920	\$2,920	\$2,920	\$8,760
ME-0022 MR-0003	West Bay Sediment Diversion	\$2,920 \$176,440	\$2,920 \$14.600	\$2,920 \$5,840	\$8,760 \$196,880
MR-0006	Channel Armor Gap Crevasse	\$4,672	\$0	\$0	\$4,672
MR-0009	Delta-Wide Crevasses	\$8,760	\$4,672	\$4,672	\$18,104
PO-0006	Fritchie Marsh Restoration	\$14,600	\$11,680	\$4,380	\$30,660
PO-0016 PO-0018	Bayou Sauvage National Wildlife Refuge Hydrologic Restoration, Phase 1 Bayou Sauvage National Wildlife Refuge Hydrologic Restoration, Phase 2	\$2,920	\$2,920	\$2,920	\$8,760
. 0 00.0		\$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
	Lake Chapeau Sediment Input and Hydrologic Restoration, Point Au Fer	y, y	7-,0	Ψ0	
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 \$154,200
TE-0034 TE-0037	Penchant Basin Natural Resources Plan, Increment 1 New Cut Dune/Marsh Restoration	\$92,520 \$21,024	\$55,840 \$5,840	\$5,840 \$3,504	\$154,200 \$30,368
TE-0040	Timbalier Island Dune/Marsh Restoration	\$3,504	\$20,440	\$2,336	\$26,280
TE-0044	North Lake Mechant Landbridge Restoration	\$28,032	\$28,032	\$3,504	\$59,568
TE-0046	West Lake Boudreaux Shoreline Protection and Marsh Creation	\$2,628	\$20,615	\$18,104	\$41,347
TE-0048 TE-0050	Raccoon Island Shoreline Protection/Marsh Creation Whiskey Island Back Barrier Marsh Creation	\$68,760 \$21,024	\$48,760 \$5,840	\$5,840 \$3,504	\$123,360 \$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	\$2,920	\$2,920	\$2,920	\$8,760
TV-0012	Little Vermilion Bay Sediment Trapping	\$2,920	\$2,920	\$0 \$16.036	\$5,840 \$42,840
TV-0013-A TV-0014	Oaks/Avery Canal Hydrologic Restoration, Increment 1 Marsh Island Hydrologic Restoration	\$8,968 \$6,966	\$16,936 \$20,982	\$16,936 \$16,936	\$42,840 \$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	\$10,334,579	\$10,615,184	\$10,402,895	\$31,352,658
	Federal CWPPRA Monitoring Expenditures	\$8,784,392	\$9,022,906	\$8,842,461	\$26,649,759
	Trust Fund CWPPRA Monitoring Expenditures	\$1,550,187	\$1,592,278	\$1,560,434	\$4,702,899

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

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 Projects	2				
BA-0045	Caminada Headland Restoration	\$96,024	\$80.840	\$0	\$176,864
USACE Mitigation	on Projects	7 - 27 -	, , , , , ,	, ,	, ,,,,,
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					
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:

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.

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 BA-0002	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-0020	Jonathan Davis Wetland Protection	\$5,840	\$5,840	\$6,716	\$18,396
BA-0023	Barataria Bay Waterway West Side Shoreline Protection	\$5,840	\$5,840	\$0	\$11,680
BA-0026	Barataria Bay Waterway East Side Shoreline Protection	\$2,770,440	\$5,840	\$5,840	\$2,782,120
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	\$4,672	\$4,672	\$14,016
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	\$133,176 \$11,797	\$252,629 \$11,972	\$5,840 \$12,147	\$391,645 \$35,916
BA-0042 BA-0048	Bayou Dupont Marsh and Ridge Creation	\$136,473	\$9,928	\$123,723	\$270,124
BA-0068	Grand Liard Marsh and Ridge Restoration	\$136,473	\$9,928	\$27,923	\$174,324
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	Caernaryon 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-0016	Cameron-Creole Maintenance	\$5,840 \$204,200	\$5,840 \$204,200	\$5,840 \$129,200	\$17,520 \$537,600
CS-0004-A	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
	Canal, and Hog Island Gully		· ·	·	
CS-0024 CS-0027	Perry Ridge Shore Protection Black Bayou Hydrologic Restoration	\$3,796 \$5,789,200	\$4,088 \$14,088	\$4,380 \$14,380	\$12,264 \$5.817.668
CS-0027 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	GIWW - Perry Ridge West Bank Stabilization	\$358,680	\$4,088	\$4,380	\$367,148
CS-0031 CS-0032	Holly Beach Sand Management	\$48,760	\$4,088 \$4,672	\$4,380 \$4,672	\$57,228 \$14,016
CS-0032 CS-0049	East Sabine Lake Hydrologic Restoration Cameron-Creole Freshwater Introduction - Vegetative Plantings	\$4,672 \$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	\$202,215	\$4,380	\$210,391
LA-0003-B	Coastwide Nutria Control Program	\$3,316,907		\$3,316,907	\$9,950,721
LA-0016	Non-Rock Alternatives for Shoreline Protection Demonstration Project	\$3,796	\$4,088	\$4,380	\$12,264
ME-0004 ME-0011	Freshwater Bayou Wetland (Phases 1 & 2) Humble Canal Hydrologic Restoration	\$3,796 \$28,796	\$4,088 \$19,088	\$4,380 \$19,380	\$12,264 \$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	Freshwater Introduction South of Highway 82	\$13,796	\$14,088	\$14,380	\$42,264
ME-0018	Rockefeller Refuge Gulf Shoreline Stabilization	\$3,796	\$4,088	\$4,380	\$12,264
ME-0019	Grand-White Lakes Landbridge Protection	\$3,796	\$4,088	\$4,380	\$12,264
ME-0020 ME-0021	South Grand Chenier Hydrologic Restoration Project Grand Lake Shoreline Protection (CIAP + Tebo Point)	\$3,796 \$13,796	\$4,088 \$14,088	\$4,380 \$14,380	\$12,264 \$42,264
ME-0021	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	Fritchie Marsh Restoration	\$11,680	\$5,840	\$5,840	\$23,360
PO-0016	Bayou Sauvage National Wildlife Refuge Hydrologic Restoration, Phase 1	\$27,596	\$27,596	\$27,596	\$82,788
PO-0018	Bayou Sauvage National Wildlife Refuge Hydrologic Restoration, Phase 2	\$25,141	\$25,141	\$25,141	\$75,422
PO-0022 PO-0024	Bayou Chevee Shoreline Protection Hopedale Hydrologic Restoration	\$94,016 \$28,976	\$14,016 \$28,976	\$14,016 \$28,976	\$122,048 \$86,928
PO-0024 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	Labranche East Marsh Creation	\$0	\$4,088	\$4,088	\$8,176
PO-0104	Bayou Bonfouca Marsh Creation Project	\$40,596	\$27,848	\$44,200	\$112,644
PO-0133	Labranche Central Marsh Creation	\$0	\$4,088	\$4,088	\$8,176
TE-0022 TE-0023 (USACE)	Point au Fer Canal Plugs West Belle Pass Headland Restoration	\$5,840 \$5,840	\$5,840 \$5,840	\$5,840 \$4,672	\$17,520 \$16,352
TE-0026	Lake Chapeau Sediment Input and Hydrologic Restoration, Point Au Fer Island	\$5,840 \$491,760	\$5,840 \$250,260	\$4,672 \$5,840	\$747,860
TE-0028	Brady Canal Hydrologic Rest.	\$33,680	\$33,680	\$33,680	\$101,040
TE-0034	Penchant Basin Natural Resources Plan Increment 1	\$118,840	\$118,840	\$5,840	\$243,520
TE-0037	New Cut Dune and Marsh Restoration	\$19,728	\$19,728	\$7,990	\$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 \$88,210	\$4,672 \$5,490	\$14,016 \$181,010
TE-0044 TE-0045	North Lake Mechant Landbridge Restoration Terrebonne Bay Shore Protection Demonstration	\$88,210 \$475,168	\$88,210 \$4,672	\$5,490 \$4,672	\$181,910 \$484,512
TE-0045	West Lake Boudreaux Shoreline Protection and Marsh Creation	\$5,490	\$5,490	\$5,490	\$16,469
TE-0048	Raccoon Island Shoreline Protection/Marsh Creation		\$1,393,297	\$5,490	\$4,158,992
TE-0050	Whiskey Island Back Barrier Marsh Creation	\$7,172	\$7,172	\$7,172	\$21,516
TE-0052	West Belle Pass Barrier Headland Restoration	\$426,736	\$306,213	\$4,672	\$737,621

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-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	\$22,324,010	\$7,760,281	\$5,080,360	\$35,164,651
	Federal CWPPRA O&M Expenditures	\$18,975,408	\$6,596,239	\$4,318,306	\$29,889,953
	State CWPPRA O&M Expenditures	\$3,348,601	\$1,164,042	\$762,054	\$5,274,698

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	\$139,828	\$147,128	\$147,128	\$434,084
	Total Expenditures (GOMESA) ¹	\$1,212,429	\$1,303,030	\$1,278,571	\$3,794,030

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.

^{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-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)
Hurricane P	rotection 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
USACE Mitig	gation Projects				
BA-0109	HSDRRS Mitigation - WBV	\$7,008	\$12,614	\$18,688	\$38,310
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-0159	New Orleans to Venice Mitigation - Federal	\$7,008	\$7,008	\$7,008	\$21,024
PO-0038SF	MRGO Closure Structure	\$61,960	\$61,960	\$61,960	\$185,880
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 PO-0146	LPV Task Force Guardian Mitigation - Bayou Sauvage LPV Mitigation Project, Manchac WMA Marsh Creation	\$18,688	\$18,688	\$18,688	\$56,064
PO-0146 PO-0152	Lake Borgne and MRGO Shoreline Protection	\$13,114 \$8,184	\$13,114 \$8,184	\$13,114 \$8,184	\$39,343 \$24,552
State-Only P		Ф0,104	φο, 104	Ф0,104	\$24,002
BA-0003	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 \$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	\$11,231,670	\$6,501,865	\$6,292,258	\$24,025,793
-	Surplus Expenditures		\$3,825,920	\$3,800,048	\$13,759,768
	Trust Fund Expenditures	\$5,097,870	\$2,675,945	\$2,492,210	\$10,266,025

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

Table B-13. Oil Spill Projected Expenditures¹

Project ID	Project Name	FY 2019	FY 2020	FY 2021	Project Total (FY 2019 - FY 2021)
Deepwater H	orizon NRDA				
BA-0153	Mid-Barataria Sediment Diversion (Construction)	\$0	\$348,913,760	\$248,913,760	\$597,827,520
BA-0202	Queen Bess Island Restoration	\$2,000,000	\$18,500,000	\$0	\$20,500,000
BA-0203	Barataria Basin Ridge and Marsh Restoration- Spanish Pass Increment	\$1,048,276	\$279,865	\$200,000	\$1,528,141
CS-0080	Rabbit Island Restoration	\$1,400,000	\$200,000	\$24,000,000	\$25,600,000
PO-0180	Lake Borgne Marsh Creation- Increment 1	\$2,000,000	\$1,000,000	\$20,500,000	\$23,500,000
TE-0100	NRDA Caillou Lake Headlands	\$15,000,000	\$0	\$0	\$15,000,000
12 0100	Terrebonne Basin Ridge and Marsh Creation-	ψ10,000,000	ΨΟ	ΨΟ	Ψ10,000,000
TE-0139	Bayou Terrebonne Increment	\$2,500,000	\$1,600,000	\$500,000	\$4,600,000
N/A	NRDA Replenish and Protect Living Coastal and Marine Resources	\$2,820,000	\$26,000,000	\$26,000,000	\$54,820,000
N/A	NRDA Recreational Use 1	\$22,000,000	\$20,000,000	\$20,000,000	\$22,000,000
N/A	NRDA Recreational Use 2	\$25,000,000	\$13,000,000	\$0	\$38,000,000
N/A	NRDA Bird Islands	\$1,000,000	\$5,000,000	\$2,000,000	\$8,000,000
N/A	NRDA Restoration Planning	\$2,555,433	\$2,346,016	\$2,062,575	\$6,964,024
N/A	i i				
	NRDA Nutrient Reduction Regionwide Trustee Implementation Group	\$3,000,000	\$3,000,000	\$3,000,000	\$9,000,000
N/A	NRDA Adaptive Management	\$1,000,000	\$1,000,000 \$14.258.475	\$1,000,000	\$3,000,000
N/A N/A	NRDA OM&M (See Table B-8)	\$12,250,000 \$471,378	. , . ,	\$14,458,475 \$354,752	\$40,966,949
	, ,		\$264,896 \$435,363,012	\$342,989,562	\$1,091,026
NFWF Project	ater Horizon NRDA Expenditures	\$94,045,087	\$435,363,012	\$342,969,562	\$872,397,660
BA-0153	Mid-Barataria Sediment Diversion (E&D)	\$34,920,464	\$45,331,822	\$6,318,378	\$86,570,664
BS-0030	Mid-Breton Sediment Diversion	\$20,639,935	\$18,268,293	\$29,437,186	\$68,345,414
LA-0276	Sediment Diversion Management	\$3,756,507	\$4,303,893	\$2,212,874	\$10,273,274
TE-0110	Increase Atchafalaya Flow to Eastern Terrebonne	\$5,449,090	\$5,449,090	\$5,449,090	\$16,347,271
TE-0118	East Timbalier Island	\$6,100,000	\$82,000,000	\$70,000,000	\$158,100,000
N/A	NFWF Adaptive Management	\$6,860,300	\$10,016,905	\$8,855,405	\$25,732,610
N/A	NFWF OM&M (See Table B-8)	\$353,360	\$351,024	\$291,024	\$995,408
Total NFWF I	Expenditures	\$78,079,656	\$165,721,027	\$122,563,957	\$366,364,641
RESTORE Pr	ojects				
BA-0197	West Grand Terre Beach Nourishment and Stabilization	\$2,200,000	\$2,000,000	\$20,000,000	\$24,200,000
BS-0025	Lower Mississippi River Management	\$3,000,000	\$3,000,000	\$2,700,000	\$8,700,000
CS-0065	Calcasieu Ship Channel Salinity Control Measures	\$7,363,739	\$2,750,380	\$17,134,293	\$27,248,411
00 0000	Mississippi River Reintroduction into Maurepas	ψ1,000,100	Ψ2,7 00,000	ψ17,101,200	ΨΕΤ,Ε10,111
PO-0029	Swamp	\$7,000,000	\$6,000,000	\$25,400,000	\$38,400,000
PO-0163	Golden Triangle Marsh Creation	\$750,000	\$750,000	\$20,000,000	\$21,500,000
PO-0174	Biloxi Marsh Living Shoreline	\$800,000	\$500,000	\$10,300,000	\$11,600,000
TE-0113	Houma Navigation Canal Lock Complex	\$8,379,266	\$23,131,845	\$71,388,889	\$102,900,000
N/A	RESTORE Adaptive Management	\$5,705,000	\$6,511,780	\$6,511,780	\$18,728,559
N/A	Parish Matching Program ²	\$6,750,000	\$9,750,000	\$3,500,000	\$20,000,000
N/A	RESTORE Center of Excellence	\$1,800,000	\$1,500,000	\$1,500,000	\$4,800,000
Total RESTO	RE Expenditures	\$43,748,005	\$55,894,004	\$178,434,962	\$278,076,970
Total Oil Spil	I Expenditures	\$215,872,747	\$656,978,043	\$643,988,481	\$1,516,839,271
GOMESA Oil	Spill Expenditures	\$0	\$0	\$0	\$0
	Spill Expenditures	\$0	\$0	\$0	\$0
State Oil Spil	I Expenditures	\$215,872,747	\$656,978,043	\$643,988,481	\$1,516,839,271

¹⁻ Red font denotes projected expenditures for which funding has not yet been procured.
2- 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	\$5,550,000
N/A	Hollywood Canal Closure Structure (NLLD)	\$72,500	\$0	\$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
	NF-06a.1 Drainage Canal Relocation ROW				
N/A	Acquisition (Plaquemines Parish)	\$6,000,000	\$0	\$0	\$6,000,000
	Magnolia Ridge Levee Lift and Road (St. Charles				
N/A	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	\$0	\$600,000
N/A	GOMESA CPRA Allocation	\$3,500,000	\$3,500,000	\$3,500,000	\$10,500,000
N/A	GOMESA OM&M	\$7,402,780	\$2,564,057	\$7,567,118	\$17,533,954
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	\$44,000,000	\$114,500,000
Total Expe	enditures	\$47,510,280	\$108,049,057	\$72,129,618	\$227,688,955

- 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 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 www.coastal.la.gov 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.

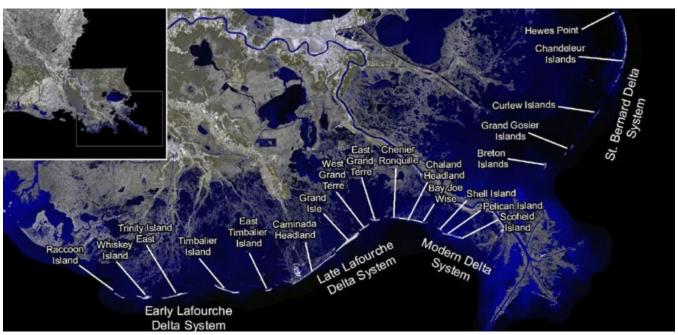


Figure 1. Location of barrier islands and Barrier Island Delta Systems in Louisiana

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

	Funding	Construction
Barrier Shoreline Restoration Projects	Program	Date
Early Lafourche Barrier System		
Constructed Projects		1004
1 Raccoon Island Repair (TE-0106)	Various FEM A	1994 1995
2 Barrier Island Sand Retention (TE-0004b) 3 Raccoon Island Breakwaters (TE-0029)	CWPPRA	1993
4 Raccoon Island Shoreline Protection/ Marsh Creation (TE-0048)	CWPPRA	2007, 2013
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) 10 Isles Dernieres Restoration East Island (TE-0020)	CWPPRA CWPPRA	2007 1999
11 BIMP 2009 Sand Fencing (LA-0246)	STATE	2009
12 Wine Island Revegetation Project	FEM A	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		
TOTAL	Funding	Construction
Barrier Shoreline Restoration Projects	Program	Date
Late Lafourche Barrier System	Ü	
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) 4 BIMP 2009 Sand Fencing (LA-0246)	CWPPRA STATE	2004 2009
5 East Timbalier Island Sediment Restoration, Phase 1 (TE-25)	CWPPRA	2009
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	2015
10 Fifi Island Restoration (BA-0155) 11 Fifi Island Breakwater (BA-0168)	CIAP CIAP	2015 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	2001
14 Restoration on West Grand Terre Island at Fort Livingston (BA-0186)	NOAA	2003
East Grand Terre Island Restoration (BA-30)	CIAP	2010
16 Caminada Headland Beach and Dune Restoration, Increment 2 (BA-143)	NFWF	2016
Future Projects		
1 East Timbalier Island (TE-0118) (in design)	NFWF	TBD
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
Parrier Sharalina Pactoration Projects	Funding Program	Construction Date
Barrier Shoreline Restoration Projects Modern Barrier System	riogiani	Date
Constructed Projects		
Pass La Mer to Chaland Pass (BA-38, part 1)		
1 also known as "Chaland Headland"	CWPPRA	2007
2 BIMP 2009 Sand Fencing (LA-0246)	STATE	2009
Pass Chaland to Grand Bayou Pass Barrier Shoreline Restoration (BA-35)	CWPPRA	2009
3 also known as "Bay Joe Wise" 4 Barataria Barrier Island Complex Project: Pelican Island and Pass (BA-38, part 2)	CWPPRA	2009
5 Emergency Berms W8, W9, W10	Berm Funds	2010-2011
	CWPPRA/	
6 Riverine Sand Mining/Scofield Island Restoration (BA-40)	Berm Funds	2013
7 Shell Island Restoration East Berm (BA-110)	Berm Funds	2013
8 Chenier Ronquile Barrier Island Restoration (BA-76) 9 Shell Island Restoration West NRDA (BA-111)	NRDA NRDA	2017 2017
Funded for Construction	LINDA	201/
None		
Future Projects		
None		
	Funding	Construction
Barrier Shoreline Restoration Projects St. Barrard Dalta System	Program	Date
St. Bernard Delta System Constructed Projects		
1 Chandeleur Islands Marsh Restoration (PO-27)	CWPPRA	2001
2 Emergency Berms E4	Berm Funds	2010
Funded for Construction		
None		
Future Projects		
1 Louisiana Outer Coast Restoration: Breton Island (in design)	NRDA	TBD

Appendix D

Caernarvon & Davis Pond Operational Plans for 2018

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

Appendix E Inventory of Non-State Projects

A. Federal Protection Projects

EAST JEFFERSON LEVEE DISTRICT LEVEE ALIGNMENTS & STRUCTURES 0 0.45 0.9

Legend

Levee Construction Type Earthen Levee

- I-Wall

Sheet Pile

Control Structure

Control Structure

Flood Gate

Pump Station

Water Bodies

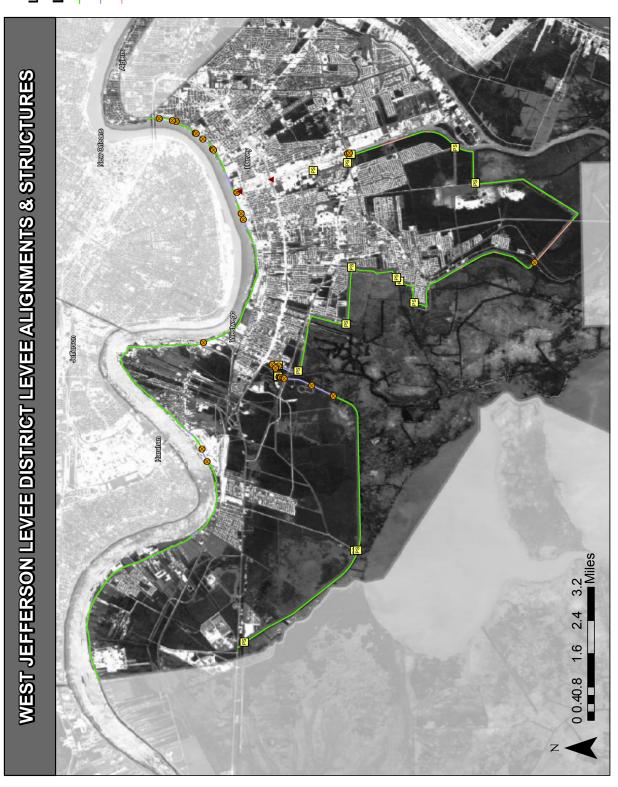




Map by: Louisiana Office of Coastal Protection & Restoration

Date: April 28, 2009

Imagery: 2000 SPOT



Legend

Levee construction types

Earthen Levee

- I-Wall

Sheet Pile

Control Structure

Pump Station Flood Gate

Water Bodies



Map by: Louisiana Office of Coastal Protection & Restoration

Date: April 28, 2009

Imagery: 2000 SPOT

ALGIERS LEVEE DISTRICT LEVEE ALIGNMENTS & STRUCTURES



Legend

Levee Construction Type

Earthen Levee

Control Structure - I-Wall

Control Struture

Pump Station

Water Bodies



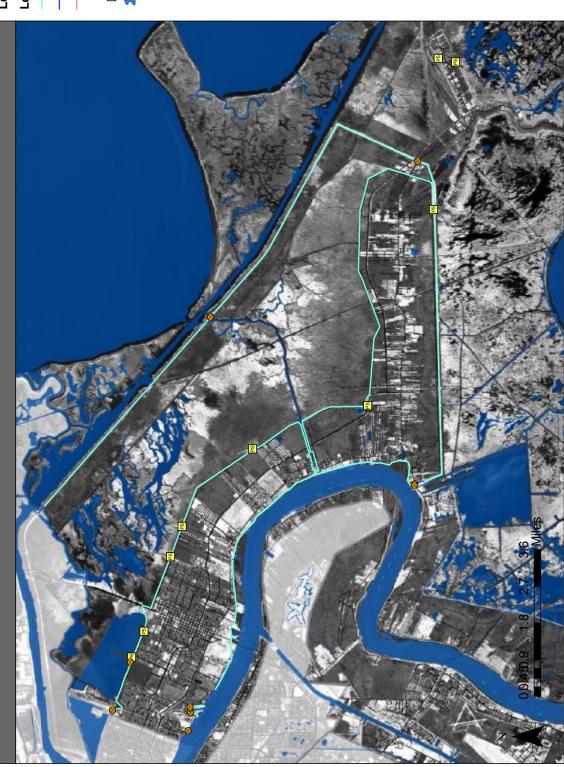


Map by: Louisiana Office of Coastal Protection & Restoration

Date: April 28, 2009

Imagery: 2000 SPOT

LAKE BORGNE BASIN LEVEE DISTRICT LEVEE ALIGNMENTS & STRUCTURES



Legend

Levee Construction Type Earthen Levee

- I-wall

Control Structure

Pump Station Flood Gate

Water Bodies



Map by: Louisiana Office of Coastal Protection & Restoration

Imagery: 2000 SPOT Date: April 28, 2009

ORLEANS LEVEE DISTRICT LEVEE ALIGNMENTS & STRUCTURES

Legend

Earthen Levee

 Sheet Pile — L-Wall - T-Wall — I-Wall

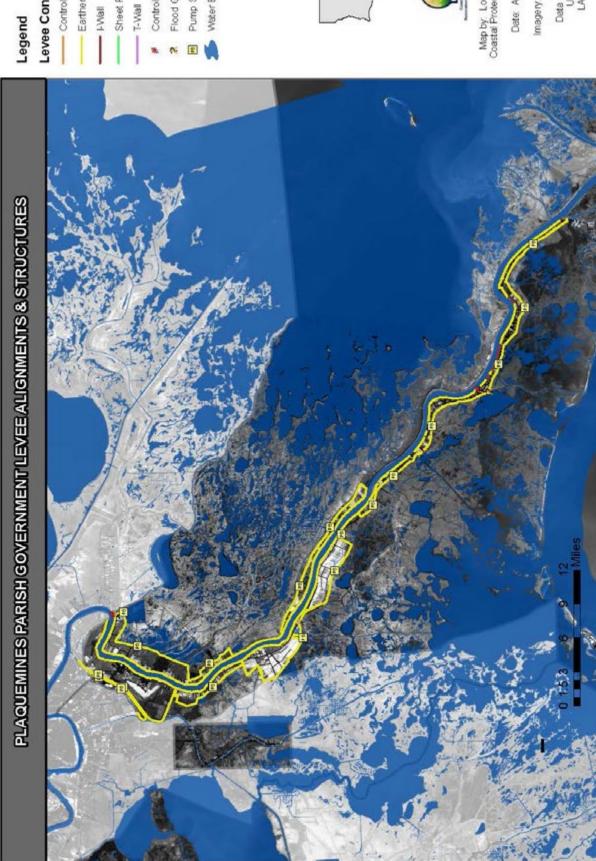
Control Stucture Flood Gate

Pump Station
Water Bodies



Map by: Louisiana Office of Coastal Protection & Restoratio

Date: April 28, 2009 Imagery: 2000 SPOT



Legend

Levee Construction Type

- Control Structure - Earthen Levee

- Sheet Pile

- T-Wall

Control Structure

Flood Gate

Pump Station

Water Bodies





Map by: Louisiana Office of Coastal Protection & Restoration

Date: April 28, 2009 Imagery. 2000 SPOT

PONTCHARTRAIN LEVEE DISTRICT LEVEE ALIGNMENTS & STRUCTURES



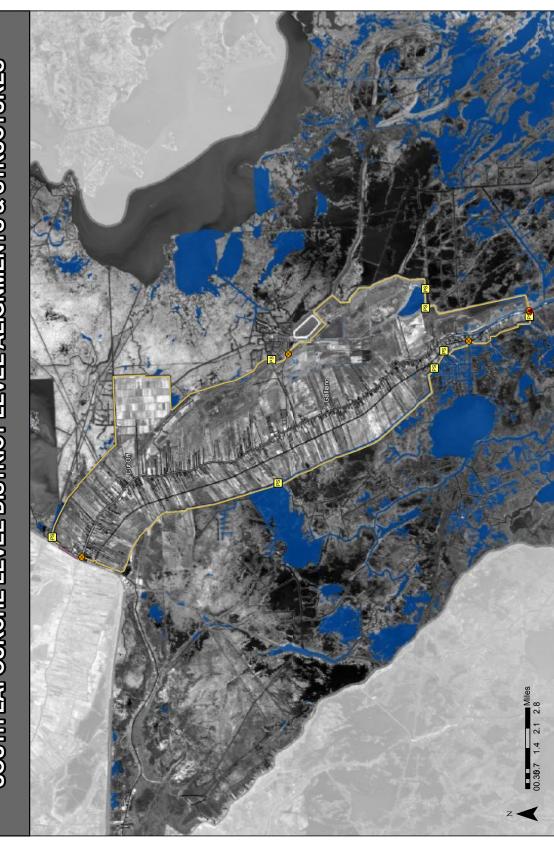
Map by. Louisiana Office of Coastal Protection & Restoration Date: April 28, 2009

Imagery: 2000 SPOT





SOUTH LAFOURCHE LEVEE DISTRICT LEVEE ALIGNMENTS & STRUCTURES



Legend

Levee construction types

- Earthen Levee - I-Wall

Sheet Pile

Control Structure Flood Gate

Pump Station

Water Bodies

Map by: Louisiana Office of Coastal Protection & Restoration

Date: April 28, 2009

Imagery: 2000 SPOT

TERREBONNE LEVEE & CONSERVATION DISTRICT LEVEE ELEVATIONS

Legend

Levee Elevation (Ft)

- 2.4 - 5.5

8.3 - 10.0 6.9 - 8.2 5.6 - 6.8

Water Bodies

Map by: Louisiana Office of Coastal Protection & Restoration

Date: April 28, 2009

Imagery: 2000 SPOT





Appendix E Inventory of Non-State Projects

B. Projects and Project Concepts in Coastal Parish Master Plans

Planning Unit	3a	3a	3a	За	3a	За	3a	За	3а	3a	3a	3a	За	3a	3a	3a	3a	3a	3a	3a	За	3a	3a
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 saltwater intrusion and a high 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 Lapsyrouse Canal to allow the controlled diversion of the Alchafalaya River water, nutrients, and sediments south rinc project area masthes. 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 Boudreaux. 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 deterioration.	This pump station project is the largest among those considered at 1350 cfs. Utilizing stormwater drainage from the Hourna area, freshwater will be introduced to the marshes north of Lake Boudreaux in an area currently impacted by saftwater intration and subsidence. This project works in conjunction with Ashland Freshwater introduction and Welland Assimilation.	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.	Saltwater 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 cts of freshwater east of Bayou Dularge into an area of marsh currently experiencing saltwater intrusion and a high rate of subsidence.	Pump station D18 will be used to introduce approximately 200 cts of freshwater to the marshes north of Falgout Canal. Marshes in this area are at risk of further deterioration due to saltwater intrusion.	Description not provided.
\$1600 taglety	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 -	Not provided	\$10,000,000	Not provided	\$500,000	\$500,000	Not provided
\$3.187 887Q4	Ter.	Ter.	Ter.	Ter.	Ter.	Ter.	Ter.	Ter.	Ter.	Ter.	Ter.	Ter.	Ter.	Ter.	Ter.	Ter.	Ter.	Ter.	Ter.	Ter.	Ter.	Ter.	Ter.
Strong States	53	51	51	51	51	51	53	51	53	53	53	53	53	52	ಬ	53	ಬ	51	51	53	51	51	53
Palis Pality Pal	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20
% _{0,0}	MC	MC	MC	MC	MC	HR	Ħ	HR	HR	HR	Η	₽	FD	HR, SP	WA	¥	¥	FD	Ŧ	FD	Ŧ	Ŧ	HR
OLIEN IDEO	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
FRILIN ISBEEL PESO,	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
Program	A/N	∀/N	∀/N	A/N	A/N	∀/N	∀/N	∀/N	A/N	A/N	∀/N	∀/N	∀/N	∀/N	∀/N	∀/N	∀/N	∀/N	∀/N	∀/N	A/N	A\N	Α/N

Planning Unit	-	-	-	1	1	1	-	1	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	1	1	2	2	2
Project Summary	Storm water drainage from the northwest corner of Jefferson Parish (Kenner, LA area) now enters the Parish Line Canal and flows north, directly into Lake Pontchartrain. The proposed project would include the construction of a water control structure of worker storm water drainage into the LaBranche Wetlands for hydrologic restoration. The storm water would be diverted at the northermost 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.	Caemarvon Diversion.	Fort St. Phillip 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 White'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.	Biloxi 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 the Bayou Perol/Little Lake intersection.	The project includes the development of an area-wide sediment delivery system. This system would utilize sediments that are hydralically-dedged from the Mississippl River, and transported via surry pipelines to the targeted marts sites. The existing nock tikes at Dupre Cut will act as a retention feature to ensure that the sediments are successfully distributed into the target areas.
*ROD ROBIGIO	\$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
12,4185	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.
Day Strong	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
Difference of the second	ω	-	-	1	1	1	-	1	1	1	-	-	1	-	-	-	٢	-	-	1	-	-	-	-	-	1	1	1	1	ω	æ	ω
**64	Ð	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	H	WC
Star Island	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
*64/807	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
Program	State and Local	Α/N	A/N	A/N	∀/N	∀/N	∀/N	A/N	∀/N	∀/N	A/N	A/N	∀/N	A/N	∀/N	∀/N	∀/N	∀/N	A/N	∀/N	A/N	Α/N	Α/N	Α/N	∀/N	∀/N	∀/N	∀/N	∀/N	CWPPRA	СМРРRА	СМРРВА

Planning Unit	2	2	2	2	2	2	2	7	2	2	2
Project Summary	The project would be conducted in three phases. Phase I would involve placing a dedicated dredge in the Bardaria Bay Waterway that would retrieve sediments from the bottom of the waterway and place them behind the saxisting rock armor along the eastem shore. Phase II would include constructing a rock dike along the southeastern shoreline at The Pen and using a dedicated dredge to place materials behind it. Phase III would consist of reinforcing the existing protection along the southwestern shore of The Pen and filling the area behind the protection with dredged material.	This project proposes to strategically place four sheetplie 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 saftwater 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 intenior exposure from the oilfield canal breaches and shoreline erosion along surrounding water bodies. The project would construct approximately \$2,000 feet of shoreline protection interspersed with viable one lifted canal closures, followed by the placement of dedicated dredge material to restore elevations of degraded wetland areas. The final identification of viable canal closure 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 vegetation.	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 former borrow pits along LA Highway 1. Restoration of the former borrow pits would include the degradation of pit letvees, 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 typtrology. Existing banklines will be followed and breaches will be plugged to interconnect existing land masses, and would thus create a searces of ridges. The northern ridge would be constructed advang a portion of the north bank of Bayou Dupont that lies between its intersection with oil and gas canals in the Saa Deuce area, westward from the intersection with the southeast bank of Chenier Traverse Bayou. The southern ridge would be constructed from the intersection of the Bataratia Bay Waterway with the historical Bayou Barataia ridge, north of Dupre Cut, and would then veer southeastward, along the north bank of the historical ridge, crossing the Texaco Canals, and then intersecting with the north bank of Bayou Maurice, to terminate at the west bank of the Barataria Bay Waterway, south of Dupre 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 fled, several canals will be eliminated and plugged off to re-connect existing land masses. Future dedicated dredging 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 Lafite, and would provide protection for the foundation and site of an existing water tank facility that provides potable dirthicily awater to the coastal community of Grand Isls. The project would also eliminate further erosion of the north bank 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 oilfield access canals to enhance freshwater retention, improve hydrology, and to reduce pathways for saltwater intrusion and extreme tidal exchange.
\$1600 Dallow	\$34,800,000	\$7,600,000	N/A	\$39,000,000	\$5,000,000 - \$25,000,000	\$3,000,000	\$19,000,000	\$6,230,000	\$2,230,000	\$1,040,000	\$1,300,000
19, 16, 18, 10, 14, 16, 16, 16, 16, 16, 16, 16, 16, 16, 16	Jef.	Jef.	Jef.	Jef.	Jef.	Jef.	Jef.	Jef.	Jef.	Jef.	Jef.
THIS OF BRIDES	105	105	105	105	105	105	105	105	105	105	105
Part I Nobel of	80	8	8	80	8	8	60	ω	ω	œ	88
100	MC, SP	HR	SP	MC, SP	dS	BI	IB	RR	H	В	SP
Star Tology	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
**64 ROO;	MG-5	PR-2	BS-1	PR-7	NA-3	BI4	FN-1	MG-1	MG-2	PR-5	PR-6
Program	СМРРRА	CMPPRA	СМРРRA	СМРРКА	СМЬЬВ∀	СМРРRА	СМЬЬВУ	СМРРRA	GIAP	CIAP	СІУЬ

Planning Unit	2	2	2	2	2	2	2	7	2	2	7	2	2	2	2	2	2	2	2
Project Summary	The project is designed to protect Grand Isle's southern shoreline from erosion which may eventually affect the integrity of an offstore 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 an ofshore pipeline corridor. This alternative would construct approximately 1.2s miles of rip-rap breakwater segments to extend an existing breakwater alignment eastward. This would indirectly protect the beach by reducing wave energy.	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, mitigation, 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 maximize effectiveness.	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 wetlandnon-wetland interface.	This project recommends the public purchase and preservation of 1,700 acres of Elmer'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 wetlands, nearby State and Federal parks, and the abundant natural and cultural experiences offered by Louisiana's wetlands.	This project would provide basin-wide protection to insure the integrity of the affected wetland 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 restrict channel dimensions at various locations in order to limit saftwater infrusion, tidal prism, and enhance freshwater 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 wetlands. The project would consist of upgrading the capacity of the existing sewerage 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 discharge 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 treatment plant effluent from the local drainage canal network to an area of adjacent wetlands. The project would consist of constructing an effluent pumping station and installing approximately 4200 feet of force main. Water control situctures 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 at the most hydrological upstream point of the target wetland reasible to 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 fringe on the backside of the islands across 2.4 miles, approximately 10 feet high and 2000 feet wide.	Barrier Island E of Bay Coqutet to Sandy Point.
\$ KOD DARION	\$2,400,000	\$1,600,000	\$1,750,000	\$125,000,000	A/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
\$3.40 A. 104	Jef.	Jef.	Jef.	Jef.	Jef.	Jef.	Jef.	Jef.	Jef.	Jef.	Jef.	Jef.	Plaq.	Plaq.	Plaq.	Plaq.	Plaq.	Plaq.	Plaq.
Strong Stellers	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105
Palas Paloto	ω	ω	ω	80	8	8	8	80	8	ω	ω	ω	-	-	1	1	1	τ-	-
***************************************	gS.	dS.	INF	MC, SP	НР	ΓA	ΓA	SP	FD	WA	WA	gS.	В	В	BI	BI	BI	В	В
Palen idea	Grand Isle Oil and Gas Pipeline Corridor Shoreline Protection - Altemative 1	Grand Isle Oil and Gas Pipeline Corridor Shoreline Protection - Altemative 2	Leeville Bridge Preliminary Design	Bayou Perot/ 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	Rosethome 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
** P. L.	BI-5	BI-5	LAF-3	PR-11	NA-8	BI-3	CS-4	BB-1	NA-1	NA-6	CS-3	BI-6	A/N	N/A	N/A	N/A	N/A	N/A	N/A
Program	CIAP	СІАР	СІУЬ	CARA	AЯAЭ	AAAO	CARA	AAAO	State and Local	State and Local	State and Local	State and Local	∀/N	Α/N	A/N	∀/N	∀/N	A/N	A/N

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	3a	3a	3a	3a	3a	За
چې Project Summary	Sandy Point/Bay Coquette.	Restoration enhancement including elevating dunes 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 halt salkwater intrusion into the basin, preserving the integrity of the Mementau Basin and create surge protection for the communities, agricultural economy and act as another line of defense against storm surges caused by frojoist sorms and furnicanes.	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 practicable.	Description not provided.	Description not provided.
SROO DEBOLD	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
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Strong St	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	51	51	53
St. 1 DOROTO	-	-	-	-	-	-	-	1	1	-	1	-	-	-	-	-	-	-	-	1	1	1	-	-	-	-	56	20	20	20	20	20	20	20
396,4	B	IB	B	DE	FD	Ð	Ð	FD	FD	Ð	MC	MC	MC	MC	MC	RR	RR	RR	SP	SP	SP	SP	SP	SP	SP	RR	SP	MC	I8	MC	MC	MC	MC	MC
Still N. Lake Lake So.	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
**64 R307	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	Ϋ́Z	FD 8	FD 42	FD 6	FD 7	ED 9	FD 10	FD 28
Program	Α/N	A/N	Α/N	Α/N	A/N	A/N	Α/N	∀/N	∀/N	A/N	A/N	Α/N	A/N	∀/N	∀/N	∀/N	∀/N	Α/N	A/N	∀/N	∀/N	∀/N	A/N	Α/N	Α/N	A/N	∀/N	∀/N	∀/N	∀/N	Α/N	∀/N	∀/N	A/N

Planning Unit	3a	3a	3a	3a	3a	3a	3a	3a	3a	3a	3a	За	3a	3a	3a	3a	За	38	3a	За	3a	3a	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 fresh marshes to the north from higher salmitries to the south. Features include 160 acres marsh norishment and up the northern and western shoreline of Lost Lake, 30 acres terracing to reduce fetch in the northers of Lost Lake, 30 acres 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 privided.	Description not provided.	Description not provided.	Description not provided.
\$800 Raffit	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
Killed Bride	Ter.	Ter.	Ter.	Ter.	Ter.	Ter.	Ter.	Ter.	Ter.	Ter.	Ter.	Ter.	Ter.	Ter.	Ter.	Ter.	Ter.	Ter.	Ter.	Ter.	Ter.	Ter.	Ter.
Strot States	51	51	51	53	53	53	51/53	53	53	51	51/53	53	53	51	53	53	51	٣	51	53	53	51/53	53
Wells State of the	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20
*0,	MC	RR	RR	MC	MC, SP	MC	MC, SP	MC	RR	SP, RR	MC	MC	MC	MC, SNT	MC	MC	MC	SP, HR	MC	FI	SP	SNT	SNT
*ALIFAN COROLL RECO	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	South Montegut - Marsh Terracing
*fo _t d R ₂ O ₁	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	FD 18
Program	A/N	∀/N	∀/N	∀/N	∀/N	A/N	∀/N	∀/N	∀/N	∀/N	∀/N	A/N	Α/N	∀/N	∀/N	∀/N	Α/N	Α\N	∀/N	A/N	A/N	A/N	A/N

Planning Unit	5	3a	За	3a	3a	3a	3a	3a	За	3а	3a	За	3a	За	За	3a	3a	3b	3b	35
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 Gulf of Mexico along Louisiana's central coast. However, the Franklin Canal also service as a conduit for reverse flows generated by storm surge from the Gulf. In this capacity, the canal has carried elevated water levels northward resultabling in fooding in Franklin and along US Hay 90 (an evacuation route) during Hurricanes Rills and like. 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 flood protection, the citizents within consolidated clavity Drainage District No. 2. (Morgan City) and vicinity) passed a bond election in late 2009. Proposed levee and purp station introvements indicate upgrades to existing levees to elevations ranging from 8 feet to 10 feet MSL. The improvements address vulnerability caused by water levels arising from Lake Palourde. The proposed upgrades will provide backwater protection from Athalagkan trevine events and some surge from the Gulf as well as from stormwater unoff in the Terrebonne Basin north of the city. Upon completion of this 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 Palourde. 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 granted. 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.
\$\$600 be		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 -	\$2,260,350
Sust of		Ter.	Ter.	Ter.	Ter.	Ter.	Ter.	Ter.	Ter.	Ter.	Ter.	Ter.	Ter.	Ter.	Ter.	Ter.	Ter.	StM.	StM.	StM.
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* Start Control Contro		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)
196	34/k007	FD 75	FD 76	FD 78	FD 60	FD 82	FD3	FD 61	FD 32	FD 64	FD 43	FD 44	FD 50	FD 56	FD 46	FD 48	FD 38	N/A	NA	N/A
ogram	лЧ	∀/N	∀/N	A/N	∀/N	∀/N	A/N	A/N	∀/N	A/N	Α/N	∀/N	A/N	∀/N	∀/N	Α/N	A/N	∀/N	∀/N	∀/N

Planning Unit	3b	3b	3p	3b	3B	39	3b	36	3b	3b	36	36	98
Project Summary	Hanson Canal and Yellow Bayou, both similar to the Franklin Canal, were designated to serve as conduits for removal of stormwater 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 lke, 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 Charenton Canal. Embankment improvements are needed to prevent overtopping of the canal along its length near urban areas. These improvements will connect to existing levees that are planned from upgading and proposed federal and/or State funded levees. The inheritaine 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 the major whe level improvements are decades away, dependent upon state and federal funding appropriations. The functional success of this alternative is directly dependent upon completion of proposed federal and state alignments west of the Charanton Canal to and beyond the Cypremort Ridge tying 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 Charenbon Canal. This alternative is less costly than the previous option as it is not dependent on future new federal or state levee construction west of the Charenbon Canal or along or west of the Cypremort Ridge. A short levee extension extending northward from the westemmost 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 feet MSL. The current levee heights range from 3.5 feet to 20 feet MSL, and some reaches of the existing levee system have been breached 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 18 feet 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 its intersection with Lake Palourde, continues southward east and inclusive of existing urban areas, crosses the intracoastal Waterway with a control structure, continues westward in St. Mary Parish south of the intracoastal Waterway along the higher ground of Avoca Island in a generally northwest direction, and lies into the Avoca 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 Boedr, crosses Bayou Boedr south of the railroad track via a control structure, follows Bayou Boedr 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 GIWW with associated new levee alignments. This alternative is in the conceptual stage of planning and requires additional analysis, comparison, and contrast to the other eastern St Mary and regional backwater protection alternatives. Once reasonable feasibility is established, a detailed evaluation of this alternative may be warranted as a suitable alternative in the state master plan. An initial investigation generally following the guidelines of a USACE reconnaissance study would be in order in an effort to determine the basic feasibility of the alternative. A more detailed feasibility will follow should the project prove feasible with benefits and cost comparable to Alternatives 1E and 3E.
\$1600 Daylot	\$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	
State of Strong	StM.	StM.	StM.	StM.	StM.	StM.	StM.	StM.	StM.	StM.	StM.	StM.	StM.
Strong Steller	50	50	90	20	50	50	50	50	50	50	20	20	20
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364	НР	НР	<u>£</u>	Ŧ	НР	₽	НР	£	НР	НР	윺	쓮	£
Stand Tolk of the Standard Sta	Hanson Canal and Yellow Bayou - Flood Control Structures	Yokely Levee Improvements	Charenton Canal - Flood Control Structure and Levee Improvements - Alternative 1	Charenton Canal - Flood Control Structure and Levee Improvements - Alternative 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	Amela Area - Louisiana State Master Plan Alignment 1E	Amelia Area - SMLD Backwater Prevention Plan 4E
**************************************	N/A	N/A	NA	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Program	∀/N	∀/N	Α\N	∀/N	∀/N	A/N	∀/N	∀/N	A/N	A/N	∀/N	A/N	Α\N

Planning Unit	3p	3b	35	3p	36	36	35	3b	9g	3b	3b	3b	38	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 Charenton Canal that generally follows the 5 foot contour extending westward to the Ivanhoe 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 furning 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 GIVWW 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 armoring along the south side of the GIWW is proposed.	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 saltwater infrusion damage and flooding 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 east/west 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 furricane 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 surrounding fragile wetlands and also provide protection from storm surges during a tropical storm or hunicane. Measures also would be undertaken to reduce the cross-sectional area of the intersection where Bayou Chene intersects Vermilion Bay.	Using existing oilfield 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.
\$ KOO DANGO	\$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
Site of the state	StM.	StM.	StM.	StM.	StM.	StM.	StM.	Ver.	Ver.	Ver.	Ver.	Ver.	Ver.	Ver.	Ver.	Ver.
SIRIFIC SELES	50	50	50	20	90	90	20	49	20	47	47	47/50	20	50	47	47/50
Part Halder	21	21	21	21	21	21	21	26	26	26	26	26	26	26	26	26
1860.	롸	НР	Н	롸	H	Н	윺	НР	윺	Н	НР	윺	НР	윺	SP	НР
Politin Calle Li Roo.	Bayou Choupique - Levee Improvements and Flood Control Structure	Bayou Sale - Levee Improvements	West of Chareton Drainage Canal- Levee Construction - Miller Plan (SMLD Alternative 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
**Kd	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	₹ Ż	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Ргодгат	∀/N	A/N	A/N	∀/N	Α/N	A/N	Α/N	∀/N	∀/N	∀/N	A/N	∀/N	∀/N	∀/N	Α/N	∀/N

Project Type, Bi-Barnier Island; DM-Beneficial Use of Dredged Material; FD-Freshwater Diversion; HP-Hurricane Protection; HR-Hydrogic Restoration; NIH-Infrastructure; LA-Land Acquisition; MC-Marsh Creation; MM-Marsh Creation; MM-Marsh Management; OM-Outfall Management PA-Public Access. PL-Planning, RR-Ridge Restoration; SD-Sediment Diversion; SNT-Sediment and Nutrient Trapping; SP-Shoreline Protection; VP-Vegetation Planting; WA-Wastewater Assimilation.

Parish: Asc.=Ascension, Asu.=Assumption, Cal.=Calcasieu, Cam.=Cameron, Ibe.=Iberia, Jef.=Jefferson, Laf.=Lafourche, Liv.=Livingston, Orl.=Orleans, Plaq.=Plaquemines, SB.=St. Bernard, StC.=St. Charles, StJa.=St. James, StJo.=St. John the Baptist, StM.=St. Mary, StMt=St. Marin, StT.=St. Tammary, Tan.=Tangipahoa, Ter.=Terrebonne, Ver.=Vermillon.

PARISH CONCEPTS FROM COASTAL MASTER PLANS

Planning Unit	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
Project Summary	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.
\$150 1396 to	\$404,198,000	\$12,482,434	\$1,083,514	\$5,495,089	Not provided	Not provided	\$3,772,982	\$300,000,000	\$307,820,000	Not provided	Not provided	\$1,033,000	\$47,768,000	Not provided	Not provided	\$3,878,982	Not provided	\$5,000,000	\$1,200,000	\$8,778,000	\$76,040,000	Not provided	\$1,281,040	\$877,800	\$20,000,000	\$12,000,000	\$877,800	\$458,407	\$219,450	\$25,939,077	\$1,189,934,181	\$8,532,094	Not provided	\$4,382,606	Not provided	\$11,655,866
3748 ₁₀ 85104	Cam.																																			
Dilling Relies	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47
8041 129/016	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25
	HR	H	HR	HR	HR	HR	MC	MC	MC	SNT	MC	Not Avail.	MC																							
**************************************	Calcasieu Ship Channel Salinity Control Measure Hydrologic Restoration	Cameron Creole Freshwater Introduction	Constriction of Sabine Lake at Hwy 82 Causeway	East Calcasieu Lake Hydrologic Restoration	East Calcasieu Lake Marsh Creation & Hydrologic Restoration (A)	East Calcasieu Lake Marsh Creation & Hydrologic Restoration (B)	First Bayou Freshwater Introduction	Gulf Intracoastal Water Way Calcasieu Locks Expansion	Gum Cove Ridge Hydrologic Restoration	Maintain Sabine River Flows into Sabine Lake	Calcasieu Ship Channel Sediment By Pass	Plug West Cove Canal	Sabine River Hydrologic Restoration	Salinity Reduction at Sabine Lake Causeway	Tripod Bayou Control Structure	Humble Canal Hydrologic Restoration (Spillway)	Humble Canal Spillway	Improved Drainage East Grand Chenier	Kings Bayou Hydrologic Restoration	Little Pecan Bayou Hydrologic Restoration	Mermentau River Hydrologic Restoration	Mermentau Spillway (Big Burn) Humble Canal	Muria & Kings Bayou Drainage Improvements	Oak Grove Hydrologic Restoration	Reconditioning of East End Locks	Rockefeller Wildlife Refuge Spillway & Hwy 82 Modification	South Oak Grove Hydrologic Restoration	West Club Hydrologic Restoration	Woods Tract Hydrologic Restoration	Beneficial Use of Dredge Spoil at Sabine National Wildlife Refuge	Black Bayou Marsh Creation	Black Bayou Terraces	Black Bayou Terracing Project	Black Lake Marsh Restoration	Black Lake Restoration Project	Black Lake/Gum Cove Terracing
t _{d/k} o ₀	CPCS13	CPCS14	CPCS19	CPCS20	CPCS22	CPCS23	CPCS29	CPCS31	CPCS34	CPCS39	CPCS10	CPCS70	CPCS53	CPCS54	CPCS59	CPME09	CPME10	CPME11	CPME12	CPME14	CPME18	CPME20	CPME21	CPME23	CPME24	CPME27	CPME30	CPME33	CPME35	CPCS01	CPCS02	CPCS03	CPCS04	CPCS05	CPCS06	CPCS08
mergorq	A\N	∀/N	∀/N	∀/N	∀/N	A/N	∀/N	A/N	∀/N	A\N	∀/N	A\N	∀/N	A\N	∀/N	A\N	∀/N																			

PARISH CONCEPTS FROM COASTAL MASTER PLANS

1 45% 1 45%	, the snort	20,658,2	39/6	Figure 2 annually recommendation to the second seco
to State of the last of the la	\	Š	\$620,658,248	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.
47 Cam. \$6	-	L	774,465,811	
47 Cam. \$7		\$7	,	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.
47 Cam. \$2,		\$2,	\$2,580,279,941	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.
47 Cam. \$8		\$\$	\$893,862,252	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.
47 Cam. \$7		\$7	\$78,427,828	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.
47 Cam. \$3,4		\$3,4	\$3,477,117,831	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.
47 Cam. \$1		\$1	\$12,979,029	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.
47 Cam. \$8		\$\$	\$8,847,120	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.
47 Cam. \$1		\$1	\$11,977,646	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.
47 Cam. \$7		\$5	\$7,071,533	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.
47 Cam. \$1:		\$1:	\$13,832,088	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.
47 Cam. \$20		\$20	\$26,566,711	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.
47 Cam. \$78		\$78	\$780,218,832	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.
47 Cam. \$1.7		\$13	\$12,040,467	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.
47 Cam. \$2 ₄		72\$	\$24,007,981	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.
47 Cam. \$1.		\$1:	\$11,022,316	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.
47 Cam. \$91		\$91	\$918,359,223	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.
47 Cam. \$3		\$3	\$39,478,302	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.
47 Cam. \$8		\$\$	\$87,470,645	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.
47 Cam. \$3		\$3	\$38,723,287	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.
47 Cam. \$4!		\$2	\$49,018,650	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.
47 Cam. \$1		\$1	\$13,063,672	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.
47 Cam. \$3,0		\$3,0	\$3,093,080,570	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.
47 Cam. \$90)6\$	\$904,215,130	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.
47 Cam. \$9		6\$	\$934,629,690	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.
47 Cam. \$1,3		\$1,5	\$1,274,052,035	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.
47 Cam. \$2,5		\$2,5	\$2,569,391,271	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.
47 Cam. \$1,:		\$1,	\$1,136,005,097	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.
47 Cam. \$1,		\$1,	\$1,442,245,190	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.
47 Cam. \$1		\$1	\$10,217,288	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.
47 Cam. No		ž	Not provided	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.
47 Cam. \$5		\$2	\$53,031,969	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.
47 Cam. \$:		÷	\$22,051,574	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.
47 Cam. \$1,		\$1,	\$1,783,258,033	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.
47 Cam. \$		⋄	\$79,094,433	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.
47 Cam. \$		Ÿ	\$604,964,269	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.

PARISH CONCEPTS FROM COASTAL MASTER PLANS

Planning Unit	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
Project Summary	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.
\$403 A3864	\$28,900,241	\$28,926,641	\$28,900,241	\$27,370,884	\$31,851,587	Not provided	\$932,469	Not provided	\$22,325,704	\$1,717,512,928	\$774,713	\$13,668,024	\$25,412,000	\$31,998,068	\$31,997,068	\$11,376,898	\$452,469,592	Not provided	\$338,507,025	\$173,457,789	\$30,745,784	\$31,630,947	\$1,354,393	\$14,085,683	\$29,986,251	\$17,932,158	Not provided	\$19,564,190	\$97,820,948	\$21,077,340	\$21,670,281
*3145/Q 25/POLY	Cam.																														
DI _{HSIQ} O _{RELOS}	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47
*Off Party	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25
	MC	MC	MC	MC	MC	SP	MC	SNT, BS	MC	MC	SP	то	SP	SP	MC	SP	SP	SP	SP	SP	ОТ	SP	SP	SP	SP						
* ALEN STROLE ROOF	Vincent and Chinaberry Island Cameron Parish Marsh Creation	West Cove Marsh Creation & Nourishment	Chenier du Fond Restoration & Shoreline Protection	Lower Mud Lake Sediment Trapping	Lower Mud Lake Terracing and Bankline Stabilization	South Grand Chenier Marsh Creation	South Grand Chenier Marsh Creation	Willow Cutoff Wetland Restoration	Black Lake Shoreline Restoration	Calcasieu-Sabine Bank Stabilization	Calcasieu-Sabine Component A Shoreline Protection	East Holly Beach Gulf Shoreline Protection	East Sabine Lake Shoreline Protection	Gulf Shoreline Protection (Calcasieu River to Freshwater Bayou)	Mermentau Ship Channel Sediment By Pass	Gulf Shoreline Protection (Calcasieu River to Rockefeller)	Gulf Shoreline Protection (Calcasieu River to Lower Mud Lake)	Sweet Lake & Willow Lake North Shoreline Restoration	Chenier du Fond Restoration & Shoreline Protection	GIWW at Amoco Bank Stabilization	Grand Lake Shoreline Protection	Grand Lake Shoreline Protection at Umbrella Bay and Lacassine Point	Lacassine Pool South Levee Protection	North Little Chenier Levee Protection	Rockefeller Gulf of Mexico Shoreline Stabilization, Joseph's Harbor East Project	Rockefeller Refuge Shoreline Protection	Southwest White Lake Shoreline Protection	Umbrella Bay Shoreline Protection Project			
**************************************	CPCS61A	CPCS61B	CPCS61C	CPCS61D	CPCS62	CPME01	CPME16	CPME17	CPME28	CPME29	CPME34	CPCS07	CPCS11	CPCS12	CPCS25	CPCS27	CPCS32	CPME19	CPCS32A	CPCS32B	CPCS56	CPME01	CPME03	CPME05	CPME06	CPME13	CPME22	CPME25	CPME26	CPME31	CPME32
mergorq	∀/N	∀/N	A\N	A/N	∀/N	∀/N	A\N	∀/N	∀/N	∀/N	A\N	∀/N	∀/N	∀/N	∀/N	∀/N	∀/N	A\N	∀/N	A\N											

Project Type: Bl=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, HR=Hydrologic Restoration; INF=infrastructure; LAeLand Acquisition; MC=Marsh Creation; MM=Marsh Management; Orl-outfall Plaq.=Plaquemines, StB.=St. Benard, StC.=St. Charles, StB.=St. James, StD.=St. John the Baptist, StM.=St. Mary, StMt.=St. Marrin, StT.=St. Tammany, Management; Orl-outfall Plaq.=Plaguement, Orl-outfall Plag.=Plaguement, Orl-outfall Plag.=Plaguement, Orl-outfall Plag.=Plaguement, Orl-outfall Plag.=Plaguement, Orl-outfall Plag.=Plaguement, Orl-outfall Plaguement, Orl-outfall Plaguemen



Appendix E Inventory of Non-State Projects

C. Restoration 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



Appendix F CPRA FY 2019 Capital Outlay Requests



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

Agency	Department	Agency	Project Request Title	Funding Source	(Year 1)	(Year 2)	(Year 3)	(Year 4)	(Year 5)	Total by Project
Priority	Priority	Number			FY2019	FY2020	FY2021	FY2022	Outlying Years	•
				IAT	\$150,000					\$150,000
1 of 14	1 of 14	100	CDD A Benjade	FED	\$55,250,000		_			\$55,250,000
1 01 14		103	Crna riojecis	NRR STAT DED	\$93,000,000		_			893,000,000
				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	80	80	\$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	83,900,000	80	80	\$15,000,000
6 of 14	6 of 14	109	Lafitte Area Tidal Protection (BA-75)	GO Bonds	\$12,000,000	\$10,000,000	0\$	80	80	\$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 (TE-64)	30 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	601	North Shore, Lake Pontchartrain Flood Protection (PO-167)	GO Bonds	\$5,000,000	80	0\$	80	80	\$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	88,000,000	0\$	80	\$35,500,000

\$5,320,775,949

\$4,113,823,092

\$224,211,619

\$240,911,619

\$254,032,119

\$487,797,500

TOTALS:

