





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 (CPRA) 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. To avoid confusion, the 2012 Louisiana Legislature changed the name of the state agency from OCPR to CPRA.

The CPRA is required by Act 523 of the 2009 Regular Legislative Session, to produce an Annual Plan that inventories projects, presents implementation schedules for these projects, and identifies funding schedules and budgets. This Fiscal Year (FY) 2018 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 2018 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

JOHN BEL EDWARDS GOVERNOR

April 25, 2017

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 2018 Annual Plan.

The Annual Plan includes three-year revenue and expenditure projections, project implementation schedules, and a program progress assessment. It also identifies immediate actions toward implementation of the Coastal Master Plan. Included in this year's plan are funds from the *Deepwater Horizon* oil spill for restoration projects to address injuries to natural resources in Louisiana, for marsh creation and living shoreline projects, and funds for the continued advancement of two major sediment diversion projects critical to the long-term sustainability of coastal Louisiana. These projects require extremely sophisticated and comprehensive planning, strict adherence to engineering and design schedules, and an adaptive management program to ensure optimal implementation and management.

While restoring our natural assets, we must also protect what we still have. Flood gates like the recently-dedicated Petite Caillou floodgate and rollergate near Cocodrie—part of the ever-advancing Morganza to the Gulf levee system—and the barge gate on Bayou Lafourche at Lockport are examples of critical flood risk reduction projects. In FY 2018, additional flood reduction projects include levee lifts, installation of permanent pump stations, tidal protection at Rosethorne and Jean Lafitte, flood protection improvements at Morgan City, and additional St. Mary Parish backwater flood protection project, to name just a few.

We also acknowledge that while we cannot restore Louisiana's footprint to the time before the levees were built, CPRA's Coastal Master Plan is a bold action plan that recognizes the urgency to reconnect the Mississippi River to the delta. Every single decision we make will be based on reflection and review of those decisions that came before it. Using engineering, ingenuity, and adaptive science, CPRA will implement robust solutions to counter Louisiana's coastal land loss.

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.

I encourage you to read the plan, ask questions about the plan, and become an advocate of the plan. Stand with us to build momentum and consensus around the plan, now and for future generations, to support implementation of the 2017 Coastal Master Plan.

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Johnny Bradberry

Chair, Coastal Protection and Restoration Authority

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# Purpose of the Annual Plan

# Origin of the Annual Plan

This plan is the annual report card used to track the progress of projects outlined in *Louisiana's Comprehensive Master Plan for a Sustainable Coast*. Additional information and projections are included to foster a better understanding of project implementation schedules and funding.

In 2007, in response to Act 8's directive, the State released *Integrated Ecosystem Restoration and Hurricane Protection: Louisiana's Comprehensive Master Plan for a Sustainable Coast* (2007 Coastal Master Plan). The 2007 Coastal Master Plan established four planning objectives as benchmarks for implementing coastal protection and restoration projects and identified large-scale measures needed to achieve a sustainable coast. 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, the first update of the Coastal Master Plan was submitted to the Louisiana Legislature in March 2012. It was unanimously adopted. The update will be submitted in April 2017.

Act 523 of the 2009 Regular Legislative Session directed 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 2018 Annual Plan fulfills the legislative mandate of Act 8 by presenting CPRA's three-year program for funding and implementing projects during FY 2018–FY 2020.

Additionally, the FY 2018 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 2017; Section 3 outlines an implementation plan for FY 2018; Section 4 gives fiscal projections for FY 2018 to 2020; and the Appendices provide detailed information on CPRA projects, programs and initiatives.

\*La R.S. 49:214.29(4) 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."



### List of Figures

Section 1   Executive Summary	
Figure ES-1: Projected FY 2018 Expenditures by Project Phase	
Section 2   Progress to Date: Results on All Fronts	
Map 2-1: Projects Scheduled to be in Construction in FY 2017	28
Map 2-2: Projects Scheduled for Completion in FY 2017	
Section 3   FY 2018 Implementation Plan: More Projects, More Action, More Result	S
Map 3-1: Active State Projects in FY 2018 – Eastern Region	48
Map 3-2: Active State Projects in FY 2018 – Central Region	
Map 3-3: Active State Projects in FY 2018 – Western Region	
Map 3-4: Projects Scheduled to be in Construction in FY 2018	
Map 3-5: Projects with Operation, Maintenance and Monitoring Expenditures in FY 2018	53
Section 4   Projections: FY 2018 - 2019 - 2020	
Figure 4-1: Projected FY 2018 Expenditures by Project Phase	70
Figure 4-2: Projected FY 2019 Expenditures by Project Phase	70
Figure 4-3: Projected FY 2020 Expenditures by Project Phase	71

### List of Tables

Section 1   Executive Summary	
Table ES-1: Projected Three-Year Revenues (FY 2018 - FY 2020)	
Table ES-2: Projected Three-Year Expenditures (FY 2018 - FY 2020)	
Section 2   Last Year: Refining Our Path Forward	
Table 2-1: Projects Scheduled to be in Construction in FY 2017	26
Table 2-2: Projects Scheduled to Complete Construction in FY 2017	29
Section 3   FY 2018 Implementation Plan: More Projects, More Action, More Results	
Table 3-1: Projects Scheduled to be in Construction in FY 2018	5
Table 3-2: Projected Three-Year Schedules for Active CWPPRA Projects (FY 2018 - 2020)	54
Table 3-3: Projected Three-Year Schedules for Active WRDA Projects (FY 2018 - 2020)	5
Table 3-4: Projected Three-Year Schedules for Active State-Only Projects (FY 2018 - 2020)	56
Table 3-5: Projected Three-Year Schedules for Active CDBG Projects (FY 2018 - 2020)	
Table 3-6: Projected Three-Year Schedules for Active HSDRRS Projects (FY 2018 - 2020)	
Table 3-7: Projected Three-Year Schedules for Active and Proposed Oil Spill Projects (FY 2018 - 2020)	58
Section 4   Projections: FY 2018 - 2019 - 2020	
Table 4-1: Projected Three-Year Revenues (FY 2018 - FY 2020)	66
Table 4-2: Projected Three-Year Expenditures (FY 2018 - FY 2020)	67
Table 4-3: Programmatic Projected Three-Year Expenditures (FY 2018 - FY 2020)	68
Table 4-4: State Protection and Restoration Projected Three-Year Operating Expenditures (FY 2018 - FY 2020)	



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# Section 1 **Executive Summary**

Accomplishments and Notable Projects

Some accomplishments and notable projects completed or in construction in Fiscal Year 17 include:

- Barataria Basin Landbridge Shoreline Protection Phase 3 (BA-0027-C): Completing construction of approximately 22,800 feet of rock dike shoreline to reduce or eliminate erosion along the west bank of Bayou Perot and the north shore of Little Lake. Benefits 5,587 acres of marsh.
- Mississippi River Long Distance Sediment Pipeline (BA-0043-EB): This
  reusable pipeline corridor (that remains available for future restoration
  projects) helped accomplish a suite of projects in Plaquemines and
  Jefferson Parishes below Belle Chasse that used sustainable sediment
  sources to create and nourish approximately 542 acres of marsh in an area
  where sediment is limited.
- Bayou Dupont Marsh and Ridge Creation (BA-0048): This completed project used sediment from the Mississippi River to create 277 acres of marsh, nourish 93 additional acres of marsh, and built 20 acres (11,000 linear feet) of ridge. Project used a total of more than 5.3 million cubic yards of cut and fill sediment.
- Bayou Dupont Sediment Delivery Marsh Creation #3 and Terracing (BA-0164): Created and nourished 138 acres of emergent intermediate marsh using sediment from the Mississippi River, along with creation of 9,679 linear feet of terraces.
- Bayou Bonfouca Marsh Creation (PO-0104): Restoring and nourishing approximately 621 acres of interior marsh and reestablishing the Lake Pontchartrain shoreline rim.
- Mississippi River Water Reintroduction into Bayou Lafourche BLFWD
  (BA-0161): Constructed a barge-gate capable of preventing saltwater
  intrusion coming up the bayou. Other components of the project include
  modifications to the pump station and railroad crossing at Donaldsonville,
  dredging and other structures addressing problems facing the Bayou
  Lafourche waterway.
- Jean Lafitte Tidal Protection (BA-0075-1): This project, currently in construction, will provide flood protection improvements by raising 15,840 linear feet of existing earthen levee. The project will also include approximately 7,900 linear feet of concrete capped, steel sheet pile floodwall, and flood gates.
- **Living Shoreline (PO-0148)**: Used 9,000 manmade structures to create 3.1 miles of shoreline protection in Eloi Bay in St. Bernard Parish with the additional goal of oyster reef inducement. Ancillary projects in Plaquemines and Jefferson Parishes.

- Shell Island West NRDA (BA-0111): This completed project has restored the integrity of the Shell Island West barrier island, reduced wave energies within the bay area, and reestablished productive habitat to Bastian Bay and the surrounding area. It created 287 acres of marsh and 319 acres of dune and beach while adding 1.5 miles in length to the eastern lobe of Shell Island (originally restored in 2013 as project BA-0110), and added another 281 acres and 1.2 miles to the western lobe. These islands are part of the Barataria Basin barrier island chain reconstructed in Plaquemines Parish.
- Caminada Headland Beach and Dune Increment 2 (BA-0143): This completed project has restored and protected beach and dune habitat across the Caminada Headland through the direct placement of approximately 5.5 million cubic yards of sandy material from Ship Shoal (an offshore borrow source). A total of 489 acres of beach and dune habitat was restored. The restored shoreline stretches 13 miles eastward from Belle Pass at the mouth of Bayou Lafourche below Port Fourchon to the eastern end of Elmer's Island.
- Hydrologic Restoration of the Amite River Diversion Canal (PO-0142): This completed project allows for drainage of the Maurepas Swamp into the Amite River Diversion Canal by dredging three bank openings along with conveyance channels, berms and swamp floor vegetative plantings.
- **South Lake Lery Shoreline and Marsh Restoration (BS-0016)**: This project has used 2.1 million cubic yards of dredged sediment to create 396 acres of marsh and restored approximately 32,000 feet of the southern Lake Lery shoreline in Plaquemines Parish.
- SELA (PO-0057): Advancement on the Hurricane & Storm Damage Risk Reduction System around greater metropolitan New Orleans to reduce damage from rainfall flooding in Orleans and Jefferson parishes. This includes increasing pump station capacity and improving surface and subsurface drainage features.
- Lake Pontchartrain and Vicinity (PO-0063): Rehabilitation or new construction of more than 128 miles of levees and structures that make up the Lake Pontchartrain and Vicinity Hurricane Protection System. Involves more than 30 projects in St. Charles, Jefferson, Orleans and St. Bernard Parishes to provide 100 year protection levels.
- LPV Mitigation Project, Manchac WMA Marsh Creation (PO-0146): Created approximately 110 acres of marsh using more than 800,000 cubic yards of dredged material, with five miles of non-continuous rock breakwaters for shoreline protection in St. John the Baptist Parish.
- **Grand Lake Shoreline Protection Tebo Point (ME-0021)**: Construction of a rock dike in Cameron Parish to protect the south shoreline of Grand Lake from Catfish Lake through Tebo Point, with operations and maintenance to include rock dike previously constructed from Superior Canal to Catfish Lake.

- Larose to Golden Meadow Larose Sheetpile (TE-0065-SP): Constructed approximately 2,400 feet of sheet pile to an elevation of +13 feet along the Gulf Intracoastal Waterway at Larose in Lafourche Parish to increase the level of hurricane protection for the adjacent area.
- Mississippi River Delta Strategic Planning SSPM Expansion (MR-0016-**SSPM**): Completing construction of a small scale physical model of the lower Mississippi River housed in a 50,000 square foot building at the Baton Rouge Water Campus.

Projects anticipated to begin or continue construction in Fiscal Year 2018

- Hydrologic Restoration and Vegetative Plantings in the Lac De Allemands Swamp (BA-0034-2)
- Rosethorne Tidal Protection (BA-0075-2)

- Jean Lafitte Tidal Protection (BA-0075-1)
- Lafitte Area Levee Repair (BA-0082)

Projects

Anticipated

- WBV HSDRRS Mitigation (BA-0109)
- Previously Authorized WBV Mitigation (BA-0154)
- Kraemer-Bayou Boeuf Levee Lift (BA-0169)
- Spanish Pass Ridge and Marsh Restoration (BA-0191)
- Cameron Creole Watershed Grand Bayou Marsh Creation (CS-0054)
- Oyster Bayou Marsh Creation and Terracing (CS-0059)
- Permanent Canal Closures and Pump Stations (PO-0060)
- Bayou Bonfouca Marsh Creation Project (PO-0104)
- Violet Canal North Levee/Floodwall Realignment (PO-0170)
- Rockefeller Refuge Gulf Shoreline Stabilization (ME-0018)
- Grand Lake Shoreline and Marsh Restoration, Tebo Point (ME-0021)
- Lost Lake Marsh Creation and Hydrologic Restoration (TE-0072)
- Cut-Off Pointe Aux Chene Levee (TE-0078)
- NRDA Caillou Lake Headlands (TE-0100)
- St. Mary Parish Backwater Flood Protection (TE-0116)
- Morgan City Flood Protection Improvements (TV-0055)
- Cole's Bayou Marsh Restoration (TV-0063)

Stay Informed

The FY 2018 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 2018 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 2018 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 2018 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 can be accessed online at www.coastal.la.gov.

#### ▶ Table ES-1: Projected Three-Year Revenues (FY 2018 - FY 2020)

<u>-</u>				
Revenue Sources	FY 2018	FY 2019	FY 2020	Program Total (FY 2018 - FY 2020)
CPR Trust Fund Annual Revenue <sup>1,2</sup>	\$14,600,000	\$15,200,000	\$15,700,000	\$45,500,000
CPR Trust Fund Carried Forward	\$6,751,177	TBD	TBD	\$6,751,177
GOMESA <sup>1,3</sup>	\$140,000,000	\$140,000,000	\$140,000,000	\$420,000,000
GOMESA Carried Forward <sup>4</sup>	\$1,600,000	\$119,750,000	TBD	\$121,350,000
DOTD Interagency Transfer <sup>1</sup>	\$4,000,000	\$4,000,000	\$4,000,000	\$12,000,000
DOTD Interagency Transfer- Projects	\$73,600	\$0	\$0	\$73,600
CWPPRA Federal Funds⁵	\$96,384,103	\$75,904,989	\$76,500,081	\$248,789,173
Surplus '07, '08, '09 Carried Forward	\$161,284,403	\$26,000,310	\$7,054,375	\$194,339,088
Community Development Block Grants	\$9,806,680	\$11,680	\$0	\$9,818,360
Capital Outlay Funds	\$15,560,000	TBD	TBD	\$15,560,000
NRDA Revenues (Deepwater Horizon)	\$140,820,491	\$38,940,922	\$150,855,241	\$330,616,653
NFWF Revenues (Deepwater Horizon)	\$54,410,295	\$65,827,227	\$519,239,290	\$639,476,812
Proposed RESTORE Revenues (Deepwater Horizon)	\$61,718,000	\$48,206,637	\$132,798,175	\$242,722,812
LDNR Mitigation Funds <sup>6</sup>	\$500,000	\$500,000	\$500,000	\$1,500,000
LDNR Beneficial Use Funds <sup>6</sup>	\$250,000	\$250,000	\$250,000	\$750,000
LDWF Interagency Transfer <sup>7</sup>	\$1,000,000	\$0	\$0	\$1,000,000
MOEX Settlement <sup>8</sup>	\$704,687	\$131,250	\$704,687	\$1,540,624
Berm to Barrier <sup>9</sup>	\$98,972	\$14,600	\$21,680	\$135,252
OM&M Federal Funds <sup>10</sup>	\$29,048,815	\$17,423,395	\$15,467,305	\$61,939,515
FEMA Reimbursement for OM&M <sup>11,12</sup>	\$1,510,886	\$0	\$0	\$1,510,886
LOSCO Funding <sup>13</sup>	\$112,272	\$102,272	\$102,272	\$316,816
NAS Research Practice Grant <sup>14</sup>	\$200,000	\$200,000	\$200,000	\$600,000
Project Billing <sup>15</sup>	\$23,380,757	\$24,701,841	\$25,689,914	\$73,772,512
Capital Outlay Request Submitted for HSDRRS 30-Year Payback	\$0	\$0	\$98,000,000	\$98,000,000
Total Projected Revenue	\$763,815,138	\$577,165,122	\$1,187,083,020	\$2,528,063,280

- 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).
- Estimate tied to mineral revenue.
- 3. GOMESA funds must be disbursed to the applicable states by the end of the federal fiscal year. FY 2018 GOMESA funds are anticipated to be received between April 2018 (4Q18) and September 2018 (1Q19). Because the funds would arrive no earlier than the final quarter of FY 2018, nearly all 2018 GOMESA funding would be expended no earlier than FY 2019. Projects to receive GOMESA funding will be provided in the FY 2019 Annual Plan to ensure that proper clarity is available regarding the exact amount of available GOMESA funding, and also to ensure consistency with the 2017 Master Plan (which will be in effect at the time of receipt of GOMESA funding).
- 4. Represents carry-forward of unexpended funds from prior-year GOMESA payments.
- 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
- 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 2018 of an initial deposit of \$6.75 million of funds from the MOEX settlement.
- Used to fund monitoring of constructed Berm to Barrier projects.
- 10. 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
- 11. Represents anticipated reimbursement associated with recovery from past distasters which has been obligated by FEMA.
- 12. CPRA is pursuing FEMA recovery funding through the FEMA appeals process to restore the form and function of the Coastal Barrier Island Resource System (CBRS) units S01-S08 which were lost as a result of Hurricane Katrina. The cumulative cost of this restoration is estimated to be on the order of \$500 million.
- 13. Represents reimbursement of expenditures for CPRA (non-DWH) oil spill response activities.
- 14. Represents funding applied for in December 2016 to fund select Monitoring Data and Interpretations tasks (see Table 4-3).
- 15. Represents salary and other work-in-kind reimbursements for services performed on projects in funding programs listed in the table above.

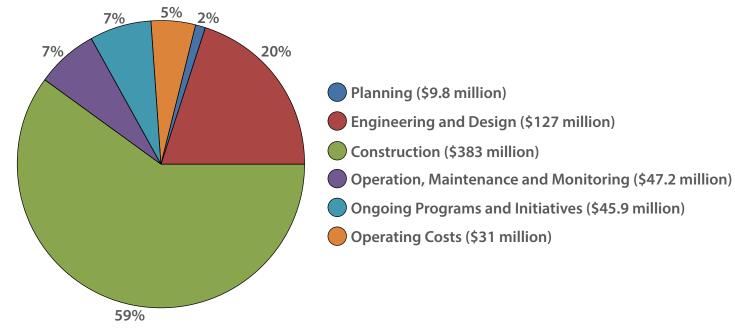
Section 1 | Executive Summary Section 1 | Executive Summary

#### ▶ Table ES-2: Projected Three-Year Expenditures¹ (FY 2018 - FY 2020)

Program/Funding Source	FY 2018	FY 2019	FY 2020	Program Total
CWPPRA State Expenditures (not including Surplus expenditures) <sup>2</sup>	\$8,509,289	\$14,095,011	\$13,499,919	\$36,104,219
CWPPRA Federal Expenditures <sup>3</sup>	\$96,384,103	\$75,904,989	\$76,500,081	\$248,789,173
WRDA Project Expenditures (not including Surplus expenditures)	\$0	\$0	\$0	\$0
Surplus Projects and Program Expenditures	\$161,284,403	\$26,000,310	\$7,054,375	\$194,339,088
Community Development Block Grants	\$9,806,680	\$11,680	\$0	\$9,818,360
HSDRRS 30-Year Payback⁴	\$0	\$0	\$98,000,000	\$98,000,000
MOEX Project Expenditures	\$704,687	\$131,250	\$704,687	\$1,540,624
DOTD Interagency Transfer- HNC Deepening Expenditures	\$73,600	\$0	\$0	\$73,600
Capital Outlay Project Expenditures	\$15,560,000	TBD	TBD	\$15,560,000
State-Only Project Expenditures (Non-Surplus)	\$188,184	\$199,864	\$199,864	\$587,912
NRDA Expenditures (Deepwater Horizon)	\$140,820,491	\$38,940,922	\$150,855,241	\$330,616,653
NFWF Expenditures (Deepwater Horizon)	\$54,410,295	\$65,827,227	\$519,239,290	\$639,476,812
Proposed RESTORE Expenditures ( <i>Deepwater Horizon</i> ) (not including Surplus Expenditures)	\$61,718,000	\$48,206,637	\$132,798,175	\$242,722,812
LDNR Mitigation Expenditures <sup>5</sup>	\$500,000	\$500,000	\$500,000	\$1,500,000
LDNR Beneficial Use Expenditures <sup>5</sup>	\$250,000	\$250,000	\$250,000	\$750,000
LDWF Interagency Transfer Expenditures <sup>6</sup>	\$1,000,000	\$0	\$0	\$1,000,000
OM&M- State Expenditures (not including Surplus expenditures)	\$9,126,372	\$8,673,455	\$6,083,374	\$23,883,201
OM&M- Federal Expenditures <sup>7</sup>	\$29,048,815	\$17,423,395	\$15,467,305	\$61,939,515
OM&M- Marine Debris Removal (Partially Reimbused by FEMA) <sup>8</sup>	\$1,640,130	\$0	\$0	\$1,640,130
GOMESA Expenditures <sup>9</sup>	\$21,850,000	TBD	TBD	\$21,850,000
NAS Research Practice Grant Expenditures	\$200,000	\$200,000	\$200,000	\$600,000
Operating Costs (see Tables 4-3 and 4-4)	\$30,990,089	\$36,800,160	\$39,790,392	\$107,580,641
Total Planned Expenditures	\$644,065,138	\$333,164,899	\$1,061,142,703	\$2,038,372,740
Notes				

- 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  $adequately\ capture\ likely\ CWPPRA\ expenditures\ in\ outlying\ years.\ The\ State's\ estimated\ CWPPRA\ expenditures\ for\ FY\ 2019\ -\ FY\ 2020\ are\ therefore\ based\ on\ prior\ years'\ expenditures.$
- Represents anticipated Federal reimbursement for CWPPRA projects led by CPRA in which the State is initially incurring more than its 15% cost share during project implementation.
- Payback is based on current HSDRRS construction schedule; payback will not commence until completion of HSDRRS construction activities. According to current USACE estimates, payback will commence in September 2019 with an estimated annual payment of \$98 million.
- Supplemental funding to augment construction of eligible projects (specific projects to be determined at a later date).
- Supplemental funding to augment construction of project ME-0018.
- 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. Represents anticipated reimbursement associated with recovery from past distasters which has been obligated by FEMA.
- FY 2018 GOMESA expenditures include the GOMESA Infrastructure Program (\$14 million) and Adaptive Management expenditures (see Table 4-3). Projects to receive GOMESA funding will be provided in the FY 2019 Annual Plan to ensure that proper clarity is available regarding the exact amount of available funding and also to ensure consistency with the 2017 Master Plan (which will be in effect at the time of receipt of GOMESA funding).

#### ▶ Figure ES-1: Projected FY 2018 Expenditures by Project Phase



#### **Notes**

- Construction includes Beneficial Use (\$1.7 million)
- OM&M includes BIMP (\$2.6 million), Repair/Rehabilitation of Projects (\$759,739), Marine Debris Removal (\$1.6 million)

TOTAL Expenditures \$644 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, engineering, 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:

### Caminada Headland Beach and Dune Restoration Project (BA-0143)

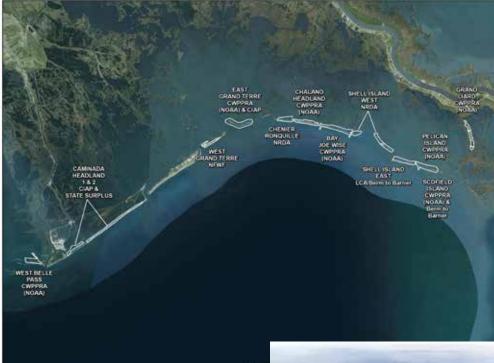
With restoration of the final reach on the eastern end of the headlands, CPRA accomplished its largest restoration project to date. Combined with the first increment of the project (BA-0045), more than 13 miles of beach and dune have been restored, stretching from below Port Fourchon to the eastern end adjacent to Caminada Pass. In all, 8.41 million cubic yards of material was dredged from Ship Shoal in federal offshore waters and barged 30 miles to create 1059 acres of protective headlands. Total cost of the two increments was more than \$216 million. With the seaward barrier restored, future plans include sediment supplementation into the marsh area between the beach and Highway One leading to Grand Isle.



Section 2 | Progress to Date: Results on All Fronts

#### Shell Island West - NRDA (BA-0111)

The latest accomplishment in restoring our barrier islands chain is actually an extension of an earlier restoration, doubling Shell Island in size after resurrecting it from open water just three years earlier. That earlier project built a two mile island with a back marsh; this latest project added another 1.5 miles and 600 acres of beach, dune and marsh. An additional 1.2 miles and 133 acres were also added to a non-consecutive section to the west.



Barrier islands are our first line of defense against damaging storm surge. CPRA has been restoring these islands and headlands in a substantial and more sustainable manner.

The extension of Shell Island is seen here as the beach and dune are extended to the west using sand dredged from the Mississippi River and pipelined more than 20 miles to the site. The back marsh is also being extended to the west.



## Bayou Dupont Sediment Delivery – Marsh Creation #3 and Terracing (BA-0164)

A series of projects has been building land along a permitted corridor stretching westward from the Mississippi River below Belle Chasse and Jean Lafitte. The original Bayou Dupont project was the first to build land using sediment dredged from the Mississippi River. This latest project created 138 acres along with 1.8 miles of sediment-capturing terraces.



All of this brown "dirt" is actually sediment dredged from the bottom of the nearby Mississippi River and pumped through more than 13 miles of pipeline to its final destination, turning open water areas into land and marsh.

This and adjacent projects along the "Long Distance Sediment Pipeline" corridor have built more than 1,800 acres of land, roughly the equivalent of 1,648 football fields, all using material dredged from the Mississippi River.

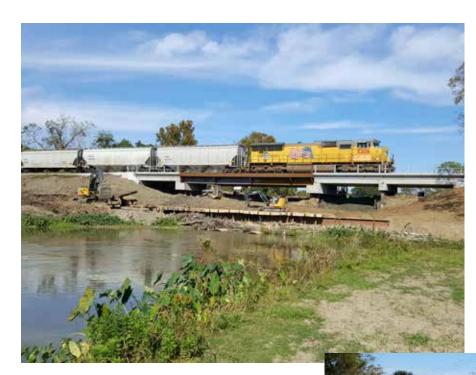


Section 2 | Progress to Date: Results on All Fronts

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

This suite of projects is revitalizing historic Bayou Lafourche, a distributary of the Mississippi that was cut off from the river's flow, then reconnected via water pumped over the levee at Donaldsonville. However, a railroad bridge was restricting adequate flow until \$4 million in CPRA funding helped open the bottleneck by rebuilding the bridge into an open span support structure.

Other components of the Bayou Lafourche project include doubling the pump capacity, dredging the bayou, and constructing a salinity control structure at Lockport.



Culverts under the old railroad bridge restricted the amount of water that could be pumped from the Mississippi River at Donaldsonville. CPRA helped fund the construction of a new open span bridge that now allows the pumps (also funded by CPRA) to send more fresh water down Bayou Lafourche.

When conditions make it necessary, this barge gate at Lockport can be closed to prevent the progression of saltwater up Bayou Lafourche.

### Hydrologic Restoration of the Amite River Diversion Canal (PO-0142)

Too much water can be a bad thing, even for swamps and wetlands. Water sitting for too long a time can drown a marsh or even a hardwood swamp. This was the case with portions of the 122,000 acre Maurepas Swamp Wildlife Management Area. The north spoil bank of the Amite River Diversion Canal was acting as a dam, not allowing the swamp to drain the way healthy swamp areas periodically do. Three openings were dredged to allow natural drainage, to be followed with the planting of one million cypress seedlings in areas that were once too waterlogged for natural propagation.



The water line is evident at about the 4-foot height of these tree trunks in the Maurepas Swamp. While other plant species can thrive in a constant water environment, cypress tree seedlings cannot.

Channels dredged through the spoil bank levee not only help drain the swamp, but also allows the periodic flow of fresh river water and nutrients into the swamp basin.

#### Living Shoreline Demonstration Project (PO-0148)

Oysters are more than a delicacy, they can be a natural form of coastal protection against damaging storm surge and wave action. Restoring our depleted oyster reefs—once massive along our coast—is a difficult but worthwhile pursuit. This project is using 9,000 manmade structures to create 3.1 miles of shoreline protection in St. Bernard Parish. Four different artificial structures are being used to test whether one type is better than the others at inducing oysters to attach, grow and accumulate into a sustainable reef.



The calming effect of even a small foreshore barrier is evident as the energy of the choppy water is dissipated before reaching the marsh edge.

Workers place one of the four types of artificial reef structures designed to attenuate wave action, increase biodiversity along with oyster development, and allow sediment accretion between the shore and the reef.

In April 2016, the federal court overseeing the 2010 Deepwater Horizon oil spill litigation approved a settlement agreement and consent decree resolving civil claims against BP arising from the oil spill. The global settlement is worth more than \$20 billion. Over the next 15 years, Louisiana will receive a minimum of \$8.7 billion for claims related to natural resource damages under the Oil Pollution Act, Clean Water Act civil penalties, and the State's various economic claims.

In addition to the consent decree, which provides the details of the settlement, the Deepwater Horizon Natural Resource Damage Assessment (NRDA) Trustees prepared a Programmatic Damage Assessment and Restoration Plan and Programmatic Environmental Impact Statement (PDARP/PEIS). This document will govern the use of the up to \$8.8 billion in NRDA settlement funds, which includes at least \$5 billion specifically for restoring damages to natural resources in Louisiana.

#### Details of the Consent Decree

Under the terms of the consent decree, BP must pay the following:

- Up to \$8.8 billion for natural resource damages (includes \$1 billion in early restoration projects);
- \$5.5 billion (plus interest) for Clean Water Act civil penalties (subject to the RESTORE Act); and
- \$600 million for other claims.

Additionally, BP entered into a separate agreement to pay \$4.9 billion to the five Gulf States and up to a total of \$1 billion to several hundred local governmental bodies to settle claims for economic damages suffered as a result of the spill.

A breakdown of Louisiana's share of these funds is as follows:

- A minimum of \$5 billion for natural resource damages (includes \$368 million previously allocated for early restoration projects);
- A minimum of approximately \$787 million for Clean Water Act civil penalties (subject to the RESTORE Act); and
- \$1 billion for state economic damages.

#### Details of the PDARP/PEIS

The PDARP/PEIS includes an ecosystem-level assessment of impacts to the Gulf's natural resources, a proposed programmatic restoration plan, and an examination of the environmental impacts of various restoration alternatives. The document proposes appropriate types of restoration and provides guidance for identifying, evaluating, and selecting future restoration projects to be implemented with the approximately \$5 billion allocated to Louisiana for natural resource damages.

An overview of the Louisiana allocation by major funding category is provided in the table below. Before any of these NRDA settlement funds can be spent on restoration projects, the Louisiana and federal trustees charged with restoring damages to natural resources caused by the Deepwater Horizon oil spill must develop project-specific restoration plans for public review and comment.

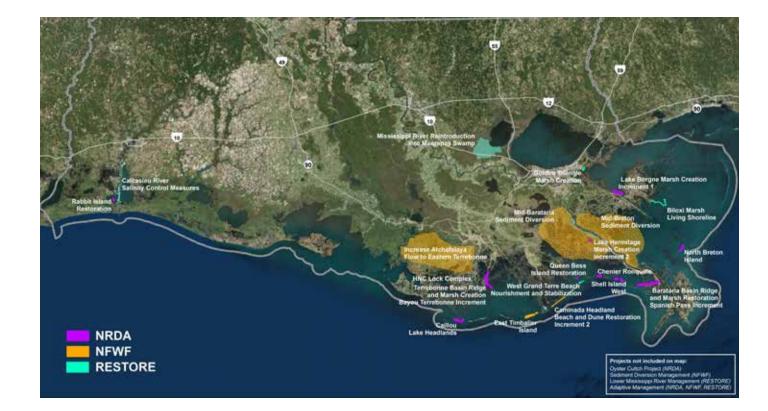
Section 2 | Progress to Date: Results on All Fronts

An overview of the Louisiana allocation by major funding category is provided in the table below:

MAJOR RESTORATION CATEGORIES	AMOUNT ALLOCATED TO LA				
1. Restore & Conserve Habitat					
Wetlands, Coastal, & Nearshore	\$4,009,062,700				
Habitat Projects – Federally Managed Lands	\$50,000,000				
Early Restoration	\$259,625,700				
2. Restore Water Quality					
Nutrient Reduction (Nonpoint Source)	\$20,000,000				
3. Replenish & Protect Living Coastal & Marine Ro	esources				
Sea Turtles	\$10,000,000				
Submerged Aquatic Vegetation	\$22,000,000				
Marine Mammals	\$50,000,000				
Birds	\$148,500,000				
Early Restoration - Birds	\$71,937,300				
Oysters	\$26,000,000				
Early Restoration - Oysters	\$14,874,300				
4. Provide & Enhance Recreational Opportunities	5				
Provide & Enhance Recreational Opportunities	\$38,000,000				
Early Restoration – Recreational Opportunities	\$22,000,000				
5. Monitoring, Adaptive Management, Administr	rative Oversight				
Monitoring & Adaptive Management	\$225,000,000				
Administration Oversight & Comp. Planning	\$33,000,000				
MINIMUM NRD FUNDING ALLOCATED TO LA	\$5,000,000,000				

### **Combined Settlements**

The settlement with BP, combined with prior Deepwater Horizon-related settlements and recoveries, translates into approximately \$8.8 billion over 15 years for Louisiana coastal restoration and economic damages. Approval of the consent decree and finalization of the PDARP/PEIS will allow the state to move forward with identifying and implementing critical restoration and protection projects, providing approximately \$580 million annually for the coastal program.



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 5 years since the 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 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 diversions move forward to preliminary engineering and design. The purpose of these projects will be to divert sedimentladen water from the Mississippi River to the adjacent basins. By re-establishing a connection between the Mississippi River and the Basin, the project will restore historic deltaic sediment deposition to build, maintain, and sustain critical coastal lands.

Over the next several years, CPRA will work to optimize operations, formulate the final project design, and apply for appropriate construction permits. More specifically, work on the Mid Barataria Environmental Statement (EIS) will begin during the spring of 2017 and engineering and design work will commence later in 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 public scoping meetings, development of a draft EIS which will be released for public comment, and the development of a final EIS which will undergo additional public comment and will be reviewed by the USACE prior to commencement of construction.

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 http://coastal.la.gov/calendar/
- Attend a CPRA Board Meeting to engage with CPRA leadership (schedule can be found at coastal.la.gov/calendar)
- Visit coastal.la.gov to learn more about this project and other coastal restoration efforts
- Email us at outreach@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 included 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.



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



Mid-Barataria Sediment Diversion Project Layout



Sediment Diversion Conceptual Design

Although not due to the Louisiana Legislature until April 2017, development of the 2017 Coastal Master Plan is underway with the draft plan scheduled to be delivered in January 2017.

The 2017 Coastal Master Plan will be the third Coastal Master Plan prepared by CPRA for approval by the Louisiana State Legislature. This process occurs every five years, and with the development of each plan comes a more refined, improved path forward to create a sustainable coastal Louisiana landscape.

The Coastal Master Plan provides important information to Louisiana's coastal citizens, providing information for them to protect their families, manage businesses, and plan for the future. The 2017 Coastal Master Plan will continue to move the people of Louisiana forward in pursuit of our state's shared protection and restoration goals of reducing coastal storm surge flood risk, promoting sustainable ecosystems, providing habitats for a variety of commercial and recreational activities coast-wide, strengthening communities, and supporting regionally and nationally important business and industry.

As CPRA carries forth the planning efforts detailed in the 2007 and 2012 Coastal Master Plans, the 2017 effort will continue to build on the past and establish clear priorities for the future through an integrated and comprehensive approach. As was the case with previous plans, the 2017 Coastal Master Plan will be 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.

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 appreciates the importance of understanding the cost of 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 is why information to help us better understand the effects that projects actions will have – for example, on our traditional fishing, agricultural, and oil and gas industry related communities – have been quantified and included in our 2017 analysis.

#### **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 will place a greater focus 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 Draft 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.

The appendix includes discussions of land loss rates in a future without action, insurance issues, population shifts, and what the proposed projects in the Draft Master Plan might deliver to residents, in terms of land building as well as reductions in flood risk. The appendix also provides an overview of CPRA's Flood Risk and Resilience Program, as well as information on new economic opportunities driven by the coast. The appendix ends with a summary of coastal Louisiana's significance to the nation. This information can be used by residents, local parish leaders, and others looking for a non-technical summary of master plan themes and findings.

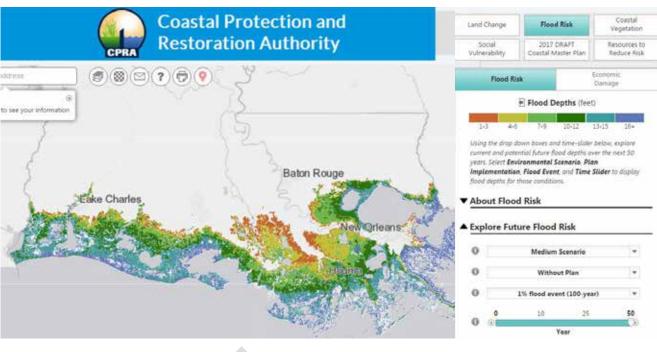
#### Focusing on Flood Risk Reduction and Resilience

In an effort to use all of the tools available to reduce communities' flood risk, we explored different types of nonstructural measures and refined policies to help communities become more resilient.

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 flood risk now and in the future.

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

This information can be used by 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. You can visit the online tool to explore your own community through the following link: http://cims.coastal.la.gov/masterplan.



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 CPRA's 2017 Coastal Master Plan and provides resources to reduce flood risk. This information is for coastal planning purposes, and is not appropriate for site-specific decision making.

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

Section 2 | Progress to Date: Results on All Fronts

#### Incorporating New Project Ideas and Information

The 2017 Coastal Master Plan considers an array of new project ideas not modeled in 2012; these new project ideas were submitted from across the coast by stakeholders and members of the public. Also, a wider range of ecosystem outcomes is included, such as additional fisheries and wildlife species.

To ensure the latest project ideas are included for consideration in the 2017 Coastal Master Plan, CPRA established the New Project Development Program. The program provided opportunities (two solicitation periods; 140 days total) for new projects to be proposed by individuals and organizations, including citizens, academia, parishes, elected officials, agencies, non-government organizations (NGOs), landowners, and businesses/industries. New projects could be proposed that build and/or sustain land, provide significant flood risk reduction, address radical shifts in the coastal landscape, or confront future uncertainty challenges.

Each project submission was screened using the following criteria: size threshold, geographic area, adequate information, consistency with Master Plan objectives and principles, and duplicative effects. Overall, the CPRA received 155 project ideas from 42 project sponsors. Based on this process and other efforts, 148 candidate projects were identified for consideration in the 2017 Coastal Master Plan.

#### Improving Models Based on Best Available Science

The 2012 Coastal Master Plan was founded on state-of-the-art science and analysis, and the 2017 effort builds upon this further. The improved modeling process provided a deeper understanding of our coastal environment today, as well as the changes that are expected over the next 50 years. In an effort to make the modeling process as transparent and accessible to the public as possible, CPRA posted technical modeling reports in draft form to its website throughout the master plan development process. The CPRA website also provides a full list of technical reports documenting the models used to evaluate projects and alternatives for the 2017 Coastal Master Plan. Additionally, CPRA has posted other resources online related to the development of the plan, such as project definition, planning tool, and modeling appendices, an executive summary, webinar recordings and PowerPoint slides detailing the suite of modeling tools that were developed to support the 2017 Coastal Master Plan.

Based on the New Project Development Program and the improved modeling results, 76 restoration projects are selected in the 2017 Draft Coastal Master Plan along with 12 structural and 32 nonstructural risk reduction projects. The 2017 Coastal Master Plan dedicates more than \$17.7 billion to marsh creation using dredged material, \$5 billion to sediment diversions, and more than \$2 billion to other types of restoration projects that benefit 800 square miles of coast. The plan also dedicates \$19 billion to structural and \$6 billion to nonstructural risk reduction projects that, by the end of 50 years, would reduce expected annual damages from flooding by \$8.3 billion.

### 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 have met to review and discuss key master plan developments, been 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' flood risk, and the solutions to create a more resilient and sustainable coast.

#### Learn More and Get Involved

Want to learn more about the 2017 Coastal Master Plan? The team at CPRA is prepared to present at your next community meeting and answer any questions that individuals in your area might have about the 2017 Coastal Master Plan and how it will affect the place you call home. Simply email us at masterplan@la.gov with the subject line: "Community Meeting Presentation" to schedule a presentation. In addition, stay tuned to our calendar of events and follow us on social media to learn about ways to get involved and voice your thoughts. You can also visit our website to learn more about the 2017 Coastal Master Plan: http://coastal.la.gov/acommon-vision/2017-master-plan-update.



Section 2 | Progress to Date: Results on All Fronts Section 2 | Progress to Date: Results on All Fronts

#### ▶ Table 2-1: Projects Scheduled to be in Construction in FY 2017

Project ID	Project Name	Construction Start Date <sup>1</sup>	Construction Finish Date	Total Project Estimate	
CWPPRA Phase II Projects					
BA-0027-C	Barataria Basin Landbridge Shoreline Protection, Phase 3-CU7 & 8	3-Jun-15	26-Jan-17	\$26,351,988	
BA-0048	Bayou Dupont Marsh and Ridge Creation Project	11-Jun-13	5-Jan-17	\$38,324,646	
BA-0164	Bayou Dupont Sediment Delivery - Marsh Creation #3 and Terracing	15-Jan-16	31-May-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	01-May-17	15-Aug-18	\$24,655,612	
CS-0059	Oyster Bayou Marsh Creation and Terracing	30-Jun-16	31-Aug-17	\$30,866,713	
ME-0018	Rockefeller Refuge Gulf Shoreline Stabilization	17-Apr-17	13-Sep-18	\$35,426,478	
ME-0020	South Grand Chenier Marsh Creation Project	03-Mar-17	17-Aug-18	\$23,873,346	
ME-0021	Grand Lake Shoreline Protection-Tebo Point	17-May-16	20-Jul-17	\$11,305,616	
PO-0104	Bayou Bonfouca Marsh Creation	28-Apr-16	31-Jan-18	\$29,273,984	
TE-0072	Lost Lake Marsh Creation and Hydrologic Restoration	07-Sep-16	18-Jun-18	\$35,876,728	
TV-0063	Cole's Bayou Marsh Restoration	20-Jun-17	19-Sep-18	\$24,930,426	
<b>CIAP Projects</b>					
BA-0043-EB	Mississippi River Long Distance Sediment Pipeline <sup>2</sup>	17-Sep-13	5-Jan-17	\$66,310,461	
BA-0161	Mississippi River Water Reintroduction into Bayou Lafourche - BLFWD	16-Jun-15	15-Feb-17	\$26,691,418	
MR-0016-SSPM	Mississippi River Delta Strategic Planning- SSPM Expansion	15-Sep-14	11-Apr-17	\$13,520,000	
PO-0148	Living Shoreline <sup>2</sup>	02-Oct-15	22-May-17	\$15,287,311	
State-Only Pro	pjects				
BA-0075-1	Jean Lafitte Tidal Protection	19-Feb-14	12-Dec-18	\$29,403,973	
BA-0075-2	Rosethorne Tidal Protection	16-Aug-17	28-May-19	\$22,950,000	
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	26-Apr-17	30-Apr-19	\$1,200,000	
PO-0142	Hydrologic Restoration of the Amite Diversion Canal	19-Apr-16	19-Jan-17	\$3,592,100	
PO-0170	Violet Canal North Levee Alignment	31-Jul-17	31-Aug-18	\$1,164,000	
TE-0064	Morganza to the Gulf	30-Nov-05	1-Oct-19	\$177,003,835	
TE-0065-SP	Larose to Golden Meadow - Larose Sheetpile	26-Jan-15	30-Jun-18	\$8,000,000	
TE-0116	St. Mary Backwater Flooding	27-Mar-17	20-Feb-19	\$5,000,000	
TV-0055	Morgan City/St. Mary Flood Protection	20-Oct-16	12-Mar-18	\$10,900,000	

### ▶ Table 2-1: Projects Scheduled to be in Construction in FY 2017

Project ID	Project Name	Construction Start Date <sup>1</sup>	Construction Finish Date	Total Project Estimate	
CDBG Proje	CDBG Projects				
TE-0063	Falgout Canal Road Levee	05-Aug-15	15-May-17	\$24,803,191	
HSDRRS Pro	jects				
BA-0066	West Bank and Vicinity	27-Mar-07	29-Jun-18	\$4,304,525,784	
BA-0067	New Orleans to Venice	21-Nov-11	11-Dec-23	\$1,301,523,760	
BA-0109	HSDRRS Mitigation-WBV <sup>3</sup>	16-Jun-16	15-Jul-19	\$126,000,000	
BA-0154	Previously Authorized Mitigation WBV <sup>3</sup>	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 Stations⁴	01-Jan-13	30-Jun-18	\$614,800,000	
PO-0063	Lake Pontchartrain and Vicinity	31-Oct-07	10-Apr-17	\$3,852,000,000	
PO-0121	HSDRRS Mitigation- LPV⁴	23-Jul-15	3-Sep-19	\$85,000,000	
PO-0146	LPV Mitigation Project, Manchac WMA Marsh Creation⁴	27-May-11	1-Sep-16	\$40,989,172	
NRDA Early	Restoration Projects				
BA-0111	Shell Island West- NRDA	31-Mar-15	5-May-17	\$101,307,860	
TE-0100	NRDA Caillou Lake Headlands	22-Jul-15	10-Aug-18	\$118,340,766	
NFWF Projects					
BA-0143	Caminada Headland Beach and Dune Restoration Increment <sup>2</sup>	28-May-14	26-Oct-16	\$147,063,587	
WRDA Projects					
BA-0191	Spanish Pass Ridge and Marsh Restoration	15-Jul-16	30-May-18	\$18,111,516	
Natas					

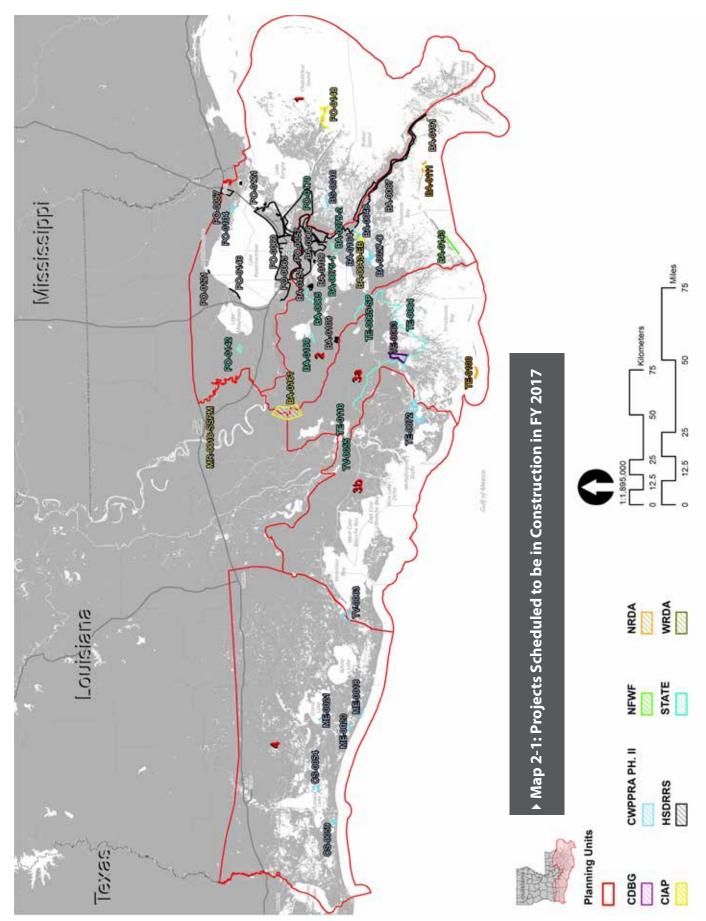
1. Construction start date is defined as projected date for advertisement of construction bid notice; actual date of mobilization may vary.

<sup>2.</sup> Project partially funded with Surplus funds.

<sup>3.</sup> Project cost included in total cost for BA-0066.

<sup>4.</sup> Project cost included in total cost for PO-0063.

Section 2 | Progress to Date: Results on All Fronts Section 2 | Progress to Date: Results on All Fronts

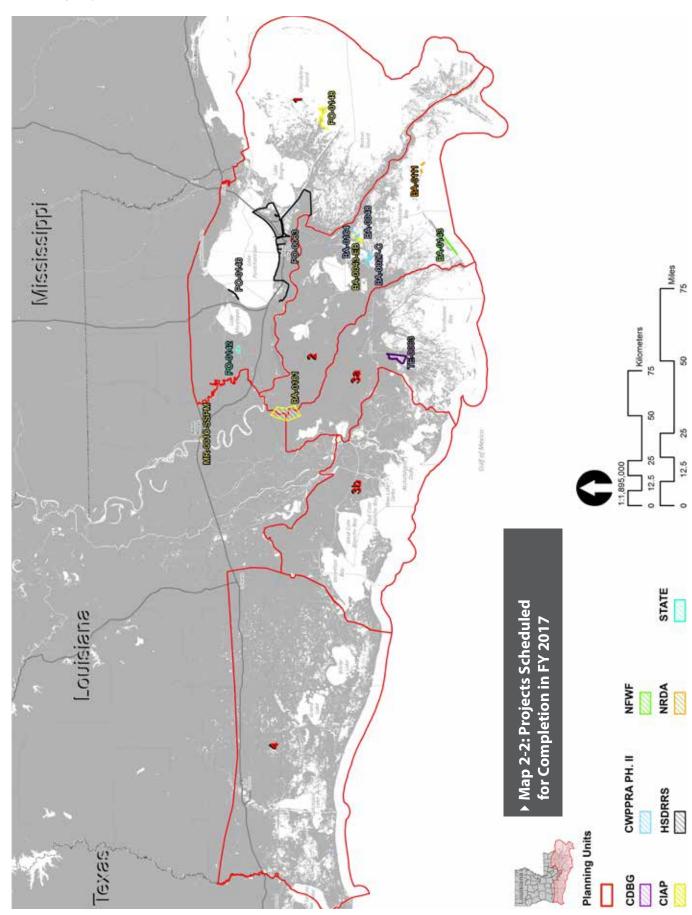


▶ Table 2-2: Projects Scheduled to Complete Construction in FY 2017

Project ID	Project Name	Construction Start Date <sup>1</sup>	Construction Finish Date	Total Project Estimate
CWPPRA Phas	e II Projects			
BA-0027-C	Barataria Basin Landbridge Shoreline Protection, Phase 3-CU7 & 8	3-Jun-15	26-Jan-17	\$26,351,988
BA-0048	Bayou Dupont Marsh and Ridge Creation Project	11-Jun-13	5-Jan-17	\$38,324,646
BA-0164	Bayou Dupont Sediment Delivery - Marsh Creation #3 and Terracing	15-Jan-16	31-May-17	\$18,733,494
<b>CIAP Projects</b>				
BA-0043-EB	Mississippi River Long Distance Sediment Pipeline2	17-Sep-13	5-Jan-17	\$66,310,461
BA-0161	${\it Mississippi\ River\ Water\ Reintroduction\ into\ Bayou\ Lafourche-BLFWD}$	16-Jun-15	15-Feb-17	\$26,691,418
MR-0016-SSPM	Mississippi River Delta Strategic Planning- SSPM Expansion	15-Sep-14	11-Apr-17	\$13,520,000
PO-0148	Living Shoreline	02-Oct-15	22-May-17	\$15,287,311
State-Only Pro	pjects			
PO-0142	Hydrologic Restoration of the Amite Diversion Canal	19-Apr-16	19-Jan-17	\$3,592,100
CDBG Projects	<b>i</b>			
TE-0063	Falgout Canal Road Levee	05-Aug-15	15-May-17	\$24,803,191
<b>HSDRRS</b> Proje	cts			
PO-0063	Lake Pontchartrain and Vicinity	31-Oct-07	10-Apr-17	\$3,852,000,000
PO-0146	LPV Mitigation Project, Manchac WMA Marsh Creation <sup>2</sup>	27-May-11	1-Sep-16	\$40,989,172
NRDA Early Re	estoration Projects			
BA-0111	Shell Island West- NRDA	31-Mar-15	5-May-17	\$101,307,860
NFWF Projects				
BA-0143	Caminada Headland Beach and Dune Restoration Increment 2	28-May-14	26-Oct-16	\$147,063,587

- 1. Construction start date is defined as projected date for advertisement of construction bid notice; actual date of mobilization may vary.
- 2. Project cost included in total cost for P0-0063

Section 2 | Progress to Date: Results on All Fronts Section 2 | Progress to Date: Results on All Fronts



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#### Section 3

### FY 2018 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 2018 (July 1, 2017, through June 30, 2018). 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.

Project 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 (http://coastal.la.gov/) for additional details about specific projects. Regional maps of projects in planning, design, and/or construction in FY 2018 are presented in Figures 3-1 through 3-3.

#### Projects in Planning

There are 3 projects in the planning phase in FY 2018, including one restoration project, one navigation project, and one integrated protection and restoration project. These projects, together with other non-project planning initiatives, represent a total state investment of \$9.8 million in FY 2018, 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 42 projects in design for FY 2018, including three protection projects and 39 restoration projects. These projects represent a total state investment of \$127 million in FY 2018. 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 30 projects that will begin or continue construction in FY 2018, including 15 protection projects and 15 restoration projects. These projects represent a total state investment of \$383 million in FY 2018, and nine of these projects are projected to complete construction in FY 2018. Table 3-1 presents additional information about projects set for construction in FY 2018, 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 \$39 million (including federal match dollars) in FY 2018 on operation, maintenance, and monitoring (OM&M). OM&M expenditures in FY 2018 will cover the operation and maintenance of 143 projects and monitoring of 109 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). Finally, the state will expend approximately \$1.6 million in FY 2018 to engage in marine debris removal in offshore areas. These expenditures are reimbursable by the Federal Emergency Management Agency (FEMA). Figure 3-5 provides a map with locations of all projects with OM&M expenditures in FY 2018. 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 2017 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.

CPRA is seeking approval this legislative session to utilize outcome based performance contracts for the purposes of marsh creation. If approved, CPRA would be able to utilize a competitive selection process to award full-delivery contracts to finance, permit, engineer, construct, and monitor marsh creation projects. The contractor would receive payment only once established success criteria are met. Payment terms could extend for numerous years after the project success has been determined. Outcome based performance contracts shifts project risks onto the contractor and allows CPRA to utilize future revenues to construct projects now. Initial pilot projects would be authorized under the proposed legislation and could utilize funding expected to be awarded in FY 2018 and beyond. If approved, CPRA would initiate outcome based performance contracting as early as FY 2018.

The 2017 Coastal Master Plan recommends 32 nonstructural project areas for nonstructural risk reduction measures, addressing flood risk for over 26,000 structures at a cost of \$6 billion. All nonstructural measures are considered voluntary and may include non-residential floodproofing, residential elevation, or residential acquisition. To assist in the development and implementation of this program, in 2014 CPRA allocated \$2 million in Surplus funding for Nonstructural Program Development, with the objective of developing a coordinated strategy for implementing nonstructural projects identified in the Master Plan for coastal communities. CPRA will continue its nonstructural program development in FY 2018 to ensure that the Master Plan's goal of a robust Flood Risk and Resilience Program to implement recommended projects is realized as additional funding becomes available.

#### 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:

- 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.

Section 3 | FY 2018 Implementation Plan Section 3 | FY 2018 Implementation Plan

> 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 2018 on the implementation of 17 CWPPRA Phase 1 projects (engineering and design), 13 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)
- No Name Bayou Marsh Creation and Nourishment (CS-0078) (Phase 1)
- Rockefeller Refuge Gulf Shoreline Stabilization (ME-0018) (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. Costshare 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.

The state currently intends to expend funds in FY 2018 on several WRDA authorizations, including:

- Spanish Pass Ridge and Marsh Restoration (BA-0191)
- Southwest Coastal Louisiana Feasibility Study (LA-0020)

Schedules for these projects are presented in Table 3-3. Additional information about these projects is available at www.lca.gov.

#### **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 2018 on 14 state-only projects, including 13 protection projects and one navigation project.

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]);
- 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, an additional \$40 million of 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 14 active state-only projects, 11 are funded for construction and will proceed to construction in accordance with their schedules as presented in Table 3-4. One project is funded for design and following completion of design will proceed to construction upon procurement of construction funds. The remaining projects are 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. 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. Schedules for HSDRRS projects are included in Table 3-6. All of these projects are fully funded for construction and will proceed with construction according to the schedules provided in Table 3-6. The principal issues that affect HSDRRS projects include engineering, constructability, budget and time issues.

#### 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 may be implemented 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
  - Shell
  - Chenier
  - Breton
- Caillou Lake Headlands (Whiskey Island) (\$110 M)
- Shell Island West (\$101 M)
- Chenier Ronquille (\$35 M)
- North Breton Island (\$72 M)
- Provide and Enhance Recreational Opportunities (\$22M)<sup>1</sup>

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 will be presented to the public for review and comment in a restoration plan.

#### 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 October 2016, Louisiana released its first post-settlement project-specific draft restoration plan for public review and comment, and held a public meeting to discuss the plan during the November CPRA Board Meeting. In January 2017, Louisiana finalized the plan, which informs the public about Deepwater Horizon NRDA restoration planning efforts and approves 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
- Barataria Basin Ridge and Marsh Creation Project: Spanish Pass Increment
- Lake Borgne Marsh Creation Project: Increment One
- Queen Bess Island Restoration Project
- Rabbit Island Restoration Project
- Shoreline Protection at Jean Lafitte National Historic Park and Preserve

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.

#### BP and Transocean Criminal Settlements - NFWF

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

- Adaptive Management: Louisiana River Diversions and Barrier Islands (\$13.2 M)
- Caminada Beach and Dune Increment II:
  - 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)

This latest funding award, \$245 million, is a milestone in advancing implementation of the biggest 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 2017.

#### 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 Economy of the Gulf Coast 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 \$988.2 million to the State of Louisiana, of which \$876.7 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 million):
  - Calcasieu Ship Channel Salinity Control Measures project (~\$260.4 million)
- Spill Impact Component (~\$551.5 million):
  - Houma Navigation Canal Lock Complex project (~\$366 million)
  - Adaptive Management Program (~\$60.9 million)
  - Parish Matching Program (up to \$100 million)
  - Contingency funds (~\$24.6 million)

#### Council-Selected Restoration Component Projects

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

The Coastal Master Plan projects receiving funding include:

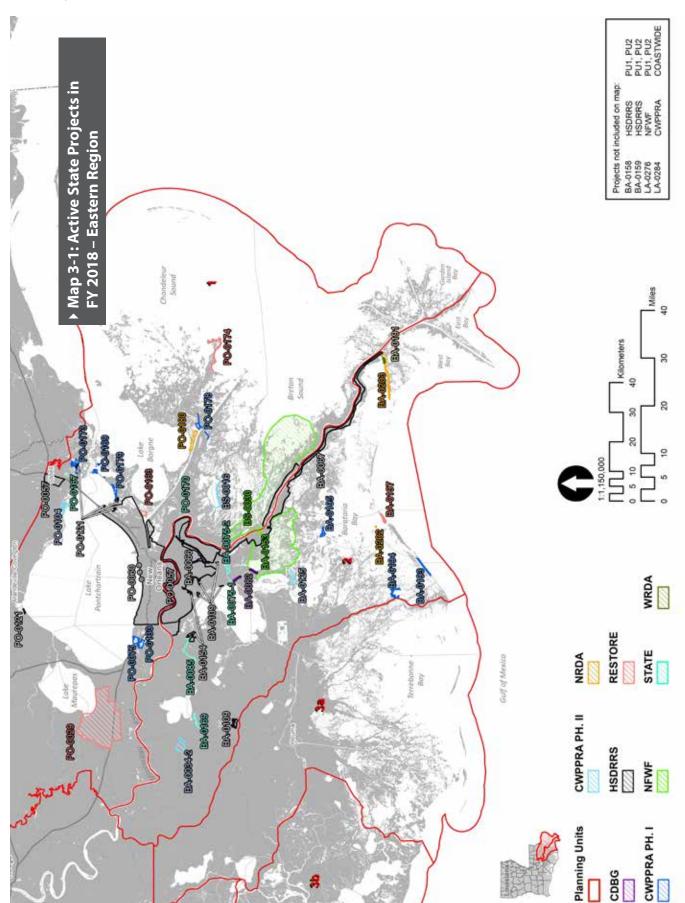
- Golden Triangle Marsh Creation Project (\$4.3M; planning)
- Mississippi River Reintroduction into Maurepas Swamp (\$14.2 M; planning)
- Biloxi Marsh Living Shoreline Project (\$3.2 M; planning)
- West Grand Terre Beach Nourishment and Stabilization Project (\$7.3 M; planning)
- Lower Mississippi River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

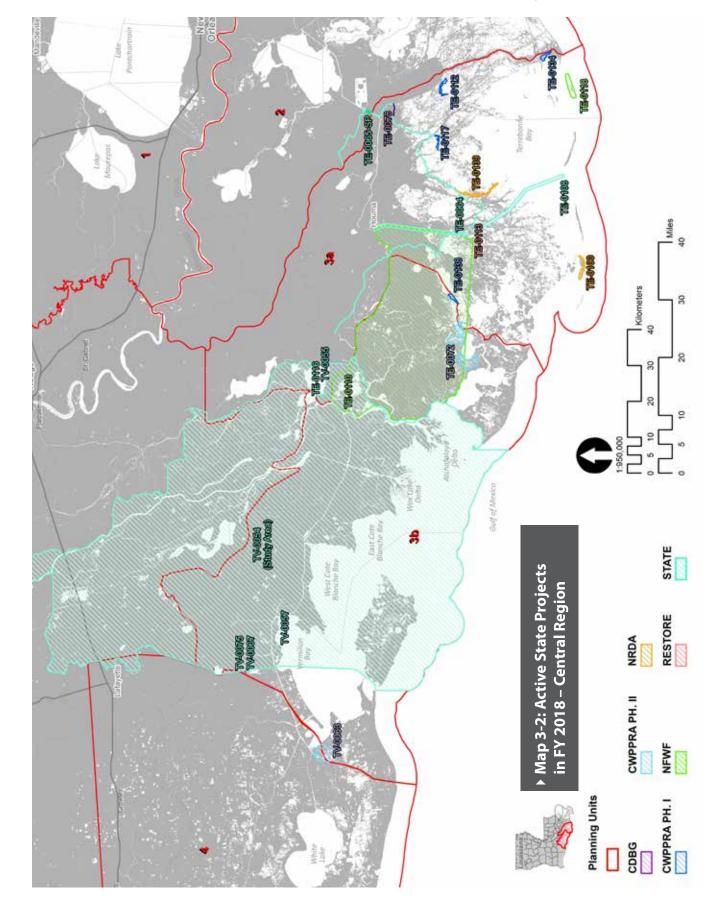
Two additional projects, Jean Lafitte Canal Backfilling (\$8.7 million; implementation) and Bayou Dularge Ridge, Marsh and Hydrologic Restoration (\$5.2 million; planning) are also located in Louisiana. These two projects, submitted for funding by federal members of the Council, will directly benefit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

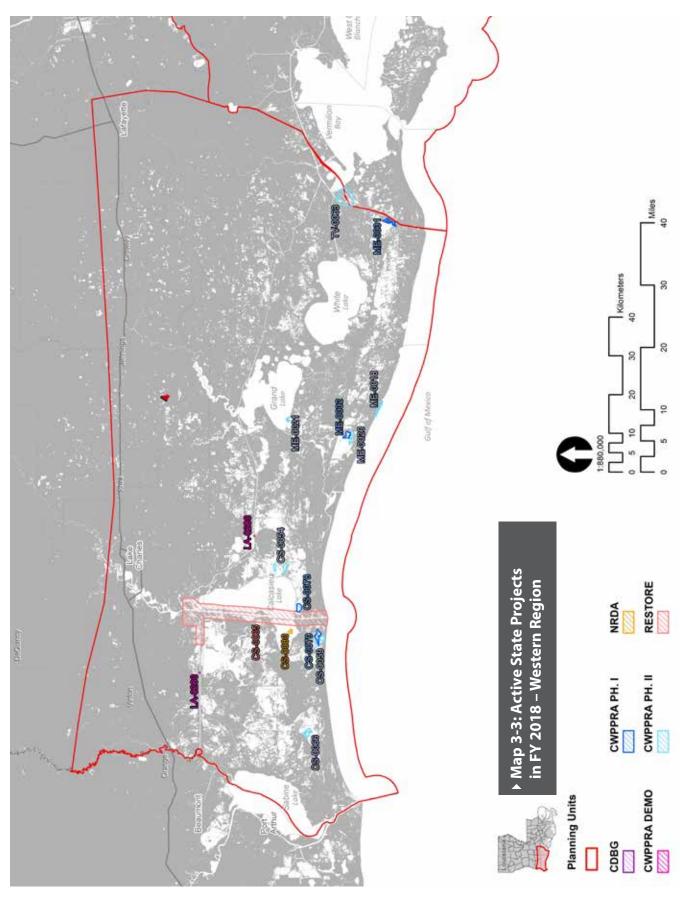
### RESTORE Center of Excellence Grants Program

In November 2016 the State's Center of Excellence, 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. The CPRA will provide over \$4 million under this first installment to the Center 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. More information on the Center's work may be found at: www.LA-COE.org.





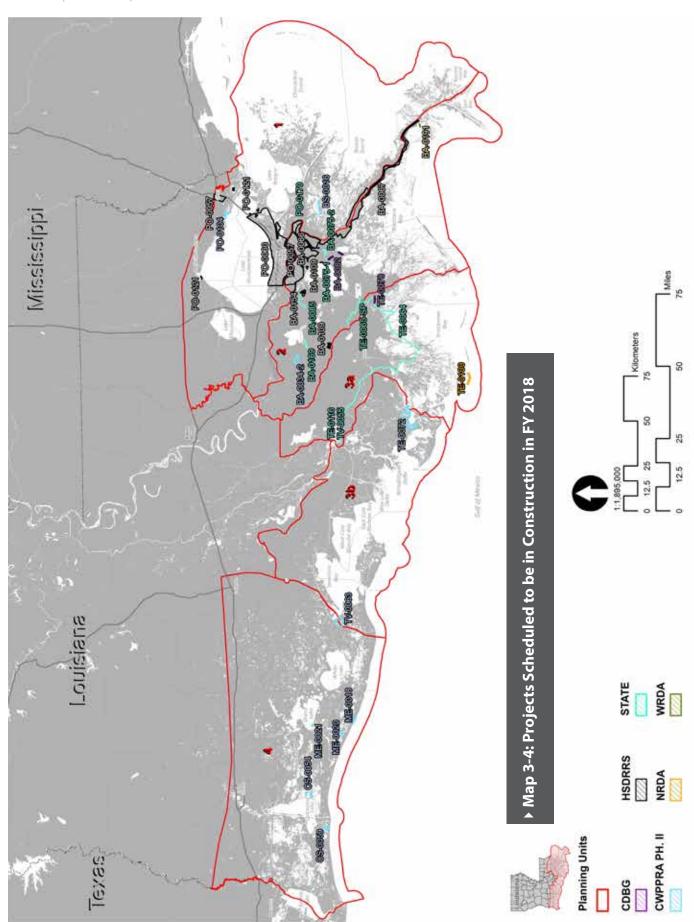
Section 3 | FY 2018 Implementation Plan Section 3 | FY 2018 Implementation Plan

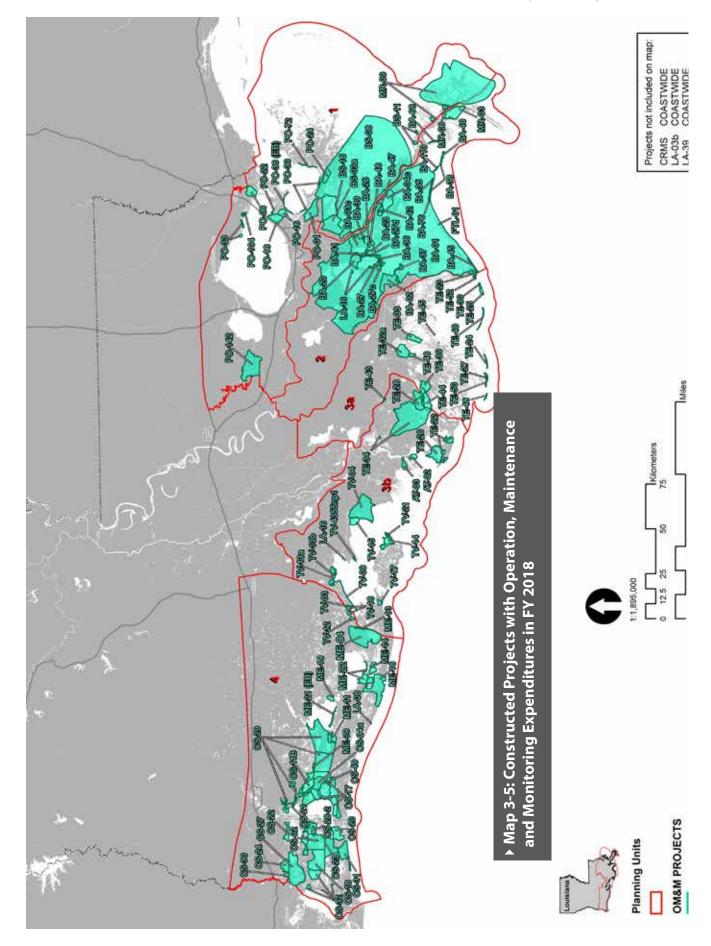


▶ Table 3-1: Projects Scheduled to be in Construction in FY 2018

Project ID	Project Name	Construction Start Date <sup>1</sup>	Construction Finish Date	Total Project Estimate
CWPPRA Pha	ase II Projects			
BA-0034-2	Hydrologic Restoration and Vegetative Planting in the Des Allemands Swamp	11-Jul-17	31-Jul-18	\$6,188,548
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	01-May-17	15-Aug-18	\$24,655,612
CS-0059	Oyster Bayou Marsh Creation and Terracing	30-Jun-16	31-Aug-17	\$30,866,713
ME-0018	Rockefeller Refuge Gulf Shoreline Stabilization	17-Apr-17	13-Sep-18	\$35,426,478
ME-0020	South Grand Chenier Marsh Creation Project	03-Mar-17	17-Aug-18	\$23,873,346
ME-0021	Grand Lake Shoreline Protection-Tebo Point	17-May-16	20-Jul-17	\$11,305,616
PO-0104	Bayou Bonfouca Marsh Creation	28-Apr-16	31-Jan-18	\$29,273,984
TE-0072	Lost Lake Marsh Creation and Hydrologic Restoration	07-Sep-16	18-Jun-18	\$35,876,728
TV-0063	Cole's Bayou Marsh Restoration	20-Jun-17	19-Sep-18	\$24,930,426
State-Only P	rojects			
BA-0075-1	Jean Lafitte Tidal Protection	19-Feb-14	12-Dec-18	\$29,403,973
BA-0075-2	Rosethorne Tidal Protection	16-Aug-17	28-May-19	\$22,950,000
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	26-Apr-17	30-Apr-19	\$1,200,000
PO-0170	Violet Canal North Levee Alignment	31-Jul-17	31-Aug-18	\$1,164,000
TE-0064	Morganza to the Gulf	30-Nov-05	1-Oct-19	\$177,003,835
TE-0065-SP	Larose to Golden Meadow - Larose Sheetpile	26-Jan-15	30-Jun-18	\$8,000,000
TE-0116	St. Mary Backwater Flooding	27-Mar-17	20-Feb-19	\$5,000,000
TV-0055	Morgan City/St. Mary Flood Protection	20-Oct-16	12-Mar-18	\$10,900,000
CDBG Projec	ts			
BA-0082	Lafitte Area Levee Repair	21-Aug-17	17-Jul-18	\$546,000
TE-0078	Cut-Off/Pointe Aux Chene Levee	26-Jul-17	13-Aug-18	\$8,468,857
HSDRRS Proj	jects			
BA-0066	West Bank and Vicinity	27-Mar-07	29-Jun-18	\$4,304,525,784
BA-0067	New Orleans to Venice	21-Nov-11	11-Dec-23	\$1,301,523,760
BA-0109	HSDRRS Mitigation- WBV <sup>3</sup>	16-Jun-16	15-Jul-19	\$126,000,000
BA-0154	Previously Authorized Mitigation WBV <sup>3</sup>	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 Stations⁴	01-Jan-13	30-Jun-18	\$614,800,000
PO-0121	HSDRRS Mitigation- LPV <sup>4</sup>	23-Jul-15	3-Sep-19	\$85,000,000
NRDA Early I	Restoration Projects			
TE-0100	NRDA Caillou Lake Headlands	22-Jul-15	15-May-18	\$118,340,766
WRDA Projects				
BA-0191	Spanish Pass Ridge and Marsh Restoration	15-Jul-16	6-Feb-18	\$18,111,516
Notes				

- 1. Construction start date is defined as projected date for advertisement of construction bid notice; actual date of mobilization may vary.
- 2. Project partially funded with Surplus funds.
- 3. Project cost included in total cost for BA-0066.
- Project cost included in total cost for PO0063.





Section 3 | FY 2018 Implementation Plan Section 3 | FY 2018 Implementation Plan

Table 3-2: Projected Three-Year Schedules for Active CWPPRA Projects<sup>1</sup> (FY 2018 - 2020)

	-2.110jected Tillee-Teal Sched														000
Project ID	Project Name	Tier	Federal	CY 2				r Yr 2			enda			CY 2	
Projectio	Project Name	Her	Sponsor								4FQ 2019			3FQ 2020	4FQ 2020
CWPPRA PI	nase I Projects						2010								
COTTINATI	Caminada Headlands Back Barrier Marsh														
BA-0193	Creation Increment 2	2	EPA	D	D	D	D	D	D	W	W	W	W	W	W
BA-0194	East Leeville Marsh Creation and Nourishment	1	NOAA	D	D	D	D	D	D	D	D	D	D	W	W
BA-0195	Barataria Bay Rim Marsh Creation and Nourishment	1	NRCS	D	D	D	D	D	D	D	D	D	D	W	W
CS-0078	No Name Bayou Marsh Creation and Nourishment	1	NOAA	D	D	D	D	D	D	W	W	W	W	W	W
CS-0079	Oyster Lake Marsh Creation and Nourishment	1	NOAA	D	D	D	D	D	D	W	W	W	W	W	W
ME-0031	Freshwater Bayou Marsh Creation (CWPPRA)	1	NRCS	D	D	D	D	D	D	D	D	D	D	W	W
ME-0032	South Grand Chenier Marsh Creation - Baker Tract	1	NRCS	D	D	D	D	D	D	D	W	W	W	W	W
PO-0075	LaBranche East Marsh Creation	2	NRCS	D	D	D	D	D	D	W	W	W	W	W	W
PO-0133	Labranche Central Marsh Creation	2	NRCS	D	D	D	D	D	D	W	W	W	W	W	W
PO-0169	New Orleans Landbridge Shoreline Stabilization & Marsh Creation	1	USFWS	D	D	D	D	D	D	W	W	W	W	W	W
PO-0173	Fritchie Marsh Creation and Terracing	1	NOAA	D	D	D	D	D	D	D	D	D	D	W	W
PO-0178	Bayou La Loutre Ridge Restoration and Marsh Creation	1	NRCS	D	D	D	D	D	D	D	D	D	D	D	D
PO-0179	St. Catherine Island Marsh Creation and Shoreline Protection	1	USFWS	D	D	D	D	D	D	D	D	D	D	W	W
TE-0112	North Catfish Lake Marsh Creation	2	NRCS	D	D	D	D	D	W	W	W	W	W	W	W
TE-0117	Island Road Marsh Creation and Nourishment	1	NOAA	D	D	D	D	D	W	W	W	W	W	W	W
TE-0134	West Fourchon Marsh Creation	1	NOAA	D	D	D	D	D	W	W	W	W	W	W	W
TE-0138	Bayou DeCade Ridge and Marsh Creation	1	NOAA	D	D	D	D	D	D	D	D	D	D	W	W
BA-0171	Caminada Headland Back Barrier Marsh Creation	1	EPA	W	W	W	W	W	W	W	W	W	W	W	W
BA-0173	Bayou Grande Cheniere Marsh and Ridge Restoration	1	USFWS	W	W	W	W	W	W	W	W	W	W	W	W
BS-0024	Terracing and Marsh Creation South of Big Mar	2	USFWS	W	W	W	W	W	W	W	W	W	W	W	W
CS-0049	Cameron-Creole Freshwater Introduction	1	NRCS	W	W	W	W	W	W	W	W	W	W	W	W
PO-0034	Alligator Bend Marsh Restoration and Shoreline Protection	1	NRCS	W	W	W	W	W	W	W	W	W	W	W	W
PO-0168	Shell Beach South Marsh Creation <sup>1</sup>	1	EPA												
TE-0039- CU2	South Lake Decade Freshwater Introduction - CU2 <sup>1</sup>	1	NRCS												

				CY 2	2017	Cal	enda	r Yr 2	018	Cal	enda	r Yr 2	019	CY 2	2020
Project ID	Project Name	Tier	Federal Sponsor	1FQ 2018	2FQ 2018			1FQ 2019		3FQ 2019			2FQ 2020	3FQ 2020	4FQ 2020
CWPPRA P	ase II Projects														
BA-0034-2	Hydrologic Restoration and Vegetative Planting in the Lac des Allemands Swamp	2	EPA	С	С	С	С	F	O	0	0	0	0	0	0
BA-0125	Northwest Turtle Bay Marsh Creation	2	USFWS	D	D	D	D	В	С	С	O	С	С	F	0
BS-0016	South Lake Lery Shoreline and Marsh Restoration	С	USFWS	F	0	0	0	0	0	0	0	0	0	0	0
CS-0054	Cameron-Creole Watershed Grand Bayou Marsh Creation	1	USFWS	С	С	С	С	F	0	0	0	0	0	0	0
CS-0059	Oyster Bayou Marsh Creation and Terracing	1	NOAA	F	0	0	0	0	0	0	0	0	0	0	0
CS-0066	Cameron Meadows Marsh Creation and Terracing	2	NOAA	D	D	D	D	D	D	В	С	С	С	С	С
LA-0284	Salvinia Weevil Propagation Facility		USFWS	D	D	D	D	D	D	С	0	0	0	0	0
ME-0018	Rockefeller Refuge Gulf Shoreline Stabilization	1	NOAA	С	С	С	С	F	0	0	0	0	0	0	0
ME-0020	South Grand Chenier Marsh Creation Project	С	USFWS	С	С	С	С	F	0	0	0	0	0	0	0
ME-0021	Grand Lake Shoreline Protection- Tebo Point	С	NRCS	F	0	0	0	0	0	0	0	0	0	0	0
PO-0104	Bayou Bonfouca Marsh Creation	С	USFWS	С	С	F	0	0	0	0	0	0	0	0	0
TE-0072	Lost Lake Marsh Creation and Hydrologic Restoration	1	USFWS	С	С	С	F	0	0	0	0	0	0	0	0
TV-0063	Cole's Bayou Marsh Restoration	1	NOAA	С	С	С	С	F	0	0	0	0	0	0	0
CWPPRA De	emo Projects														
LA-0280	Shoreline Protection, Preservation, and Restoration (SSPR) Panel	2	NOAA	D	D	D	D	D	D	D	D	D	С	С	С
Legend		Р	Feasibility & F	Plannii	ng			В	Во	oth De	esign 8	& Con	structi	on	
				Engineering & Design F Construction			n Complete								
References			Awaiting Additional Funding for Implementation			1	Program Implementation								
R	Ref.							0		perati onito		lainte	nance	, &	

▶ Table 3-3: Projected Three-Year Schedules for Active WRDA Projects (FY 2018 - 2020)

			Fordovol	CY 2	2017	Cal	enda	r Yr 2	018	Cal	enda	r Yr 2	019	CY 2	2020
Project ID	Project Name	Tier	Federal Sponsor										2FQ 2020		
LCA Project	5														
BA-0191	Spanish Pass Ridge and Marsh Restoration	1 1	USACE	С	С	С	F	W	W	W	W	W	W	W	W
PO-0068	LCA Small Diversion at Convent / Blind River <sup>2</sup>	2 1	USACE	W	W	W	W	W	W	W	W	W	W	W	W
MR-0016	Mississippi River Hydrodynamic and Delta Management Study <sup>2</sup>	1	USACE												
Other WRD	A Projects														
LA-0020	Southwest Coastal Louisiana Feasibility Study <sup>1,2</sup>	1	USACE	W	W	W	W	W	W	W	W	W	W	W	W
Legend		Р	Feasibility & P	lannir	ng			В	Вс	oth De	esign &	- & Con:	structi	on	
	ect partially funded by Surplus funds.	D Engineering & Design F Construction Complete													
2. Project currently on hold; schedule to be updated when implementation recommences.			Awaiting Add Implementati		l Fund	ling fo	r		Pr	ogran	n Impl	lemen	itation		
Rei		C Construction O Operations, Maintenance, & Monitoring				, &									

Section 3 | FY 2018 Implementation Plan Section 3 | FY 2018 Implementation Plan

### ▶ Table 3-4: Projected Three-Year Schedules for Active State-Only Projects (FY 2018 - 2020)

			Federal	CY 2	2017	Cal	enda	r Yr 2	018	Cal	enda	r Yr 2	019	CY 2	020
Project ID	Project Name	Tier	Sponsor		2FQ 2018			1FQ 2019					2FQ 2020		
State Surplus	s Projects			2020	2020										
BA-0075-1	Jean Lafitte Tidal Protection	1	N/A	С	С	С	С	С	F						
BA-0075-2	Rosethorne Tidal Protection	1	N/A	С	С	С	С	С	С	С	F				
BA-0085	St. Charles West Bank Hurricane Protection Levee	1	N/A	С	С	С	С	С	С	С	С	С	С	С	С
BA-0169	Kramer/Bayou Boeuf Levee Lift	1	N/A	С	С	С	С	С	С	С	F				
PO-0167	St. Tammany Parish Coastal Protection Study	1	N/A	D	D	D	D	D	D	D					
PO-0170	Violet Canal North Levee Alignment	1	N/A	В	С	С	С	F							
TE-0064	Morganza to the Gulf	С	USACE	С	С	С	С	С	С	С	С	С	F		
TE-0065-SP	Larose to Golden Meadow- Larose Sheetpile	С	N/A	В	В	В	В								
TE-0108	HNC Deepening Section 203 Study	2	USACE	Р	Р	Р	Р	Р	Р						
TE-0116	St. Mary Backwater Flooding	1	N/A	В	В	В	C	С	C	F					
TV-0054	South Central Coastal Plan	-	N/A	Р	Р	Ρ	Ρ	Р	Р	Р	Р	Р	Р		
TV-0055	Morgan City/ St Mary Flood Protection	1	N/A	С	С	F									
TV-0067	Bayou Tigre Flood Control Project	1	HUD	D	D	D	D	D	D	D	С	С	C	О	С
TV-0075	Bayou Tigre Flood Control Complex	1	N/A	D	D	D	D	D	D	D	С	С	С	С	С
TV-0057	Delcambre-Avery Canal (E&D)	1	N/A	W	W	W	W	W	W	W	W	W	W	W	W
PO-0062	West Shore-Lake Pontchartrain, Louisiana Hurricane Protection Project Feasibility Study <sup>1</sup>	1	USACE												
Legend		Р	Feasibility & P	lannir	ng				Вс	oth De	sign &	k Cons	structi	on	
undat	ct currently on hold; schedule to be ted when implementation recommences.	D	Engineering &	& Desi	gn			F	Co	onstru	ction	Comp	lete		
References	ference		Awaiting Add Implementati		l Fund	ling fo	r	I	Program Implementation						
Re		С	Construction					0		oeration onitor		laintei	nance	, &	

### ▶ Table 3-5: Projected Three-Year Schedules for Active CDBG Projects (FY 2018 - 2020)

			Federal	CY 2	2017	Cal	enda	r Yr 20	018	Cal	enda	r Yr 2	019	CY 2	2020
Project ID	Project Name	Tier	Sponsor		2FQ 2018										
BA-0082	Lafitte Area Levee Repair	1	HUD	С	С	С	С	F							
TE-0078	Cut-Off/Pointe Aux Chene Levee	1	HUD	С	С	С	С	F							
Legend		Р	Feasibility & P	lannir	ng				Вс	th De	sign 8	& Cons	structi	on	
es		D	Engineering 8	Desi	gn			F	Co	nstru	ction	Comp	lete		
References		1///	Awaiting Additional Funding for Implementation				Pro	Program Implementation							
Re		С	Construction					O		oeration onitor		lainte	nance	, &	

				Federal	CY 2	2017	Cal	endaı	r <b>Yr 2</b> (	018	Cal	enda	r Yr 2	019	CY 2	2020
Pı	roject ID	Project Name	Tie	Sponsor			3FQ 2018									
BA-	-0066	West Bank and Vicinity <sup>2,3,4,5</sup>	С	USACE	С	С	С	F								
BA-	-0067	New Orleans to Venice <sup>2,3</sup>	1	USACE	С	С	С	С	С	С	С	С	С	С	С	С
BA-	-0109	HSDRRS Mitigation- WBV <sup>2,3</sup>	2	USACE	В	В	В	В	В	В	С	C	F			
BA-	-0154	Previously Authorized Mitigation WBV <sup>2,3</sup>	2	USACE	O	С	С	С	С	I.						
3A-	-0158	New Orleans to Venice Mitigation - Plaquemines Non-Federal <sup>2,3</sup>	2	USACE	D	D	D	D	D	O	С	С	С	С	С	С
BA-	-0159	New Orleans to Venice Mitigation - Federal <sup>2,3</sup>	2	USACE	D	D	D	D	D	С	С	С	С	С	С	С
PO	-0057	SELA- Overall <sup>2,3</sup>	С	USACE	С	С	С	С	С	С	С	С	С	С	С	С
PO-	-0060	Permanent Canal Closures and Pump Stations <sup>2,3</sup>	1	USACE	С	С	С	F								
PO-	-0121	HSDRRS Mitigation- LPV2 <sup>2,3</sup>	2	USACE	С	С	С	С	С	С	С	С	С	F		
Le	gend		Р	Feasibility & Pl	annin	g			В	Во	th De	sign &	Cons	tructio	on	
es	spons		D	Engineering &	Desig	ın				Со	nstru	ction (	Comp	lete		
References	3. State	lule based on USACE estimates.  expenditures may be covered with Surplus tion for HSDRRS LERRDS.	W	Awaiting Addi Implementation		Fund	ing fo	r		Pro	ogram	Impl	ement	tation		
<u>~</u>		lule does not include HSDRRS Armoring, is anticipated to continue into 2020.	С	Construction					0		oeratio onitori		ainter	nance,	, &	
	upon Accor	ents for 30-year payback to commence completion of construction activities. ding to the USACE, payback will begin in dar year 2019.														

Section 3 | FY 2018 Implementation Plan Section 3 | FY 2018 Implementation Plan

▶ Table 3-7: Projected Three-Year Schedules for Active and Proposed Oil Spill Projects (FY 2018 - 2020)

	Federal	enda	r Yr 20						CY 2	2020					
Project ID	Project Name	Tier	Sponsor		2FQ								2FQ 2020	3FQ	4FQ
NRDA Early Res	storation Projects			2010	2010	2010	2010	2013	2013	2013	2013	2020	2020	2020	2020
BA-0202	Queen Bess Island Restoration	1	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	1	N/A	D	D	D	D	D	D	D	D	D	D	W	W
CS-0080	Rabbit Island Restoration	1	N/A	D	D	D	D	D	D	D	D	W	W	W	W
PO-0180	Lake Borgne Marsh Creation- Increment 1	1	N/A	D	D	D	D	D	D	D	D	D	D	W	W
TE-0100	NRDA Caillou Lake Headlands	1	N/A	С	С	С	O	F							
TE-0139	Terrebonne Basin Ridge and Marsh Creation- Bayou Terrebonne Increment	1	N/A	D	D	D	О	D	D	D	D	D	D	W	W
<b>NFWF Projects</b>															
BA-0153	Mid-Barataria Sediment Diversion	1	N/A	D	D	D	D	D	D	D	D	D	D	W	W
BS-0030	Mid-Breton Sediment Diversion	1	N/A	D	D	D	D	D	D	D	D	D	D	D	D
LA-0276	Sediment Diversion Implementation and Program Management	1	N/A	D	D	D	D	D	D	D	D	D	W	W	W
TE-0110	Increase Atchafalaya Flow to Eastern Terrebonne	1	N/A	D	D	D	О	D	D	D	D	D	D	D	D
TE-0118	East Timbalier Island Restoration	1	N/A	D	D	D	D	D	D	D	D	D	D	W	W
RESTORE Project	cts (Proposed)														
BA-0197	West Grand Terre Beach Nourishment and Stabilization	1	N/A	D	D	D	D	D	D	D	D	D	W	W	W
CS-0065	Calcasieu Ship Channel Salinity Control Measures	1	N/A	D	D	D	D	D	D	D	D	W	W	W	W
PO-0029	Mississippi River Reintroduction into Maurepas Swamp	1	N/A	D	D	D	О	D	D	D	D	D	D	D	D
PO-0163	Golden Triangle Marsh Creation	1	N/A	D	D	D	D	D	D	D	D	D	D	D	W
PO-0174	Biloxi Marsh Living Shoreline Project	1	N/A	D	D	D	D	D	D	D	D	D	D	W	W
TE-0113	Houma Navigation Canal Lock Complex	1	N/A	D	D	D	D	D	D	D	W	W	W	W	W
N/A	Lower Mississippi River Management	-	N/A	Р	Р	Р	Р	Р	Р	Р	Р	Р	Р	Р	Р
Legend	P	Fe	easibility & Pl	lannin	g				Во	th De	sign &	Cons	tructio	on	
	С	Er	ngineering &	Desig	ŋn				Construction Complete						
	W		waiting Addi nplementatio		Fund	ing fo	r	T.	Program Implementation						
	C	Co	onstruction					O Operations, Maintenance, & Monitoring			&				

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### Section 4

### Projections: Fiscal Years 2018 – 2019 – 2020

Table 4-1 presents projected state revenues over the next three fiscal years. Tables 4-2 through 4-4 show how the state proposes to spend its coastal budget over the next three fiscal years. Figures 4-1 through 4-3 depict projected expenditures by project phase for FY 2018–FY 2020, 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 2018 (July 1, 2017 through June 30, 2018). The implementation plan incorporates projects that have received funding for planning, design, construction, or OM&M. The state is exploring new funding sources, 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 2018 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 and for continuing state efforts in coastal restoration and protection.
- 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 2020.
- The Gulf of Mexico Energy Security Act (GOMESA) provides four Gulf Coast states, including Louisiana, with 37.5 percent of federal revenue gained from new OCS drilling leases. Full funding from GOMESA will begin in 2018 and is expected to eventually contribute \$120–140 million to Louisiana each year. No end date has been established for GOMESA funding. The state is considering bonding GOMESA funds based on expected revenue from future oil and gas royalty payments, a strategy that could contribute significant funding to the coastal program over the near-term. The state is also considering borrowing GOMESA funds from the federal government based on expected future royalties. Before bonding or borrowing can take place, however, the U.S. Department of the Interior must publish regulations for allocating funds to the state, and the state must estimate the amount of money that can be expected from oil and gas revenues (both short- and long-term). With these estimates, the potential revenue stream can be evaluated.

Section 4 | Projections: 2018 - 2019 - 2020

 Louisiana received \$1.06 billion in 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 2018.

The Office of the Governor generates a Capital Outlay Budget Proposal with a
list of projects to be granted cash and non-cash lines of credit. State and nonstate entities may submit Capital Outlay requests for inclusion in the proposal.
For FY 2018, the CPRA is requesting Capital Outlay funding to supplement
implementation of 13 coastal projects. Additional information about this
request is presented in Appendix F. Final decisions on Capital Outlay requests
will be announced at the close of the 2017 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 2018 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 flood risk reduction projects. The *Deepwater Horizon* oil spill has the potential to be a significant source of funding in the coming years.

### 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. The CPRA has been granted authority to reprogram dollars from approved funding streams and allocate the 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.

Section 4 | Projections: 2018 - 2019 - 2020 Section 4 | Projections: 2018 - 2019 - 2020

### ▶ Table 4-1: Projected Three-Year Revenues (FY 2018 - FY 2020)

Revenue Sources	FY 2018	FY 2019	FY 2020	Program Total (FY 2018 - FY 2020)
CPR Trust Fund Annual Revenue <sup>1,2</sup>	\$14,600,000	\$15,200,000	\$15,700,000	\$45,500,000
CPR Trust Fund Carried Forward	\$6,751,177	TBD	TBD	\$6,751,177
GOMESA <sup>1,3</sup>	\$140,000,000	\$140,000,000	\$140,000,000	\$420,000,000
GOMESA Carried Forward⁴	\$1,600,000	\$119,750,000	TBD	\$121,350,000
DOTD Interagency Transfer <sup>1</sup>	\$4,000,000	\$4,000,000	\$4,000,000	\$12,000,000
DOTD Interagency Transfer- Projects	\$73,600	\$0	\$0	\$73,600
CWPPRA Federal Funds⁵	\$96,384,103	\$75,904,989	\$76,500,081	\$248,789,173
Surplus '07, '08, '09 Carried Forward	\$161,284,403	\$26,000,310	\$7,054,375	\$194,339,088
Community Development Block Grants	\$9,806,680	\$11,680	\$0	\$9,818,360
Capital Outlay Funds	\$15,560,000	TBD	TBD	\$15,560,000
NRDA Revenues (Deepwater Horizon)	\$140,820,491	\$38,940,922	\$150,855,241	\$330,616,653
NFWF Revenues (Deepwater Horizon)	\$54,410,295	\$65,827,227	\$519,239,290	\$639,476,812
Proposed RESTORE Revenues (Deepwater Horizon)	\$61,718,000	\$48,206,637	\$132,798,175	\$242,722,812
LDNR Mitigation Funds <sup>6</sup>	\$500,000	\$500,000	\$500,000	\$1,500,000
LDNR Beneficial Use Funds <sup>6</sup>	\$250,000	\$250,000	\$250,000	\$750,000
LDWF Interagency Transfer <sup>7</sup>	\$1,000,000	\$0	\$0	\$1,000,000
MOEX Settlement <sup>8</sup>	\$704,687	\$131,250	\$704,687	\$1,540,624
Berm to Barrier <sup>9</sup>	\$98,972	\$14,600	\$21,680	\$135,252
OM&M Federal Funds <sup>10</sup>	\$29,048,815	\$17,423,395	\$15,467,305	\$61,939,515
FEMA Reimbursement for OM&M <sup>11,12</sup>	\$1,510,886	\$0	\$0	\$1,510,886
LOSCO Funding <sup>13</sup>	\$112,272	\$102,272	\$102,272	\$316,816
NAS Research Practice Grant <sup>14</sup>	\$200,000	\$200,000	\$200,000	\$600,000
Project Billing <sup>15</sup>	\$23,380,757	\$24,701,841	\$25,689,914	\$73,772,512
Capital Outlay Request Submitted for HSDRRS 30-Year Payback	\$0	\$0	\$98,000,000	\$98,000,000
Total Projected Revenue	\$763,815,138	\$577,165,122	\$1,187,083,020	\$2,528,063,280

- 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).
- GOMESA funds must be disbursed to the applicable states by the end of the federal fiscal year. FY 2018 GOMESA funds are anticipated to be received between April 2018 (4Q18) and September 2018 (1Q19). Because the funds would arrive no earlier than the final quarter of FY 2018, nearly all 2018 GOMESA funding would be expended no earlier than FY 2019. Projects to receive GOMESA funding will be provided in the FY 2019 Annual Plan to ensure that proper clarity is available regarding the exact amount of available GOMESA funding, and also to ensure consistency with the 2017 Master Plan (which will be in effect at the time of receipt of GOMESA funding).
- Represents carry-forward of unexpended funds from prior-year GOMESA payments.
- 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
- Supplemental funding to augment construction of eligible projects (specific projects to be determined at a later date).
- Supplemental funding to augment construction of project ME-0018.
- Represents anticipated balance as of FY 2018 of an initial deposit of \$6.75 million of funds from the MOEX settlement.
- 9. Used to fund monitoring of constructed Berm to Barrier projects.
- 10. 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
- 11. Represents anticipated reimbursement associated with recovery from past distasters which has been obligated by FEMA.
- 12. CPRA is pursuing FEMA recovery funding through the FEMA appeals process to restore the form and function of the Coastal Barrier Island Resource System (CBRS) units S01-S08 which were lost as a result of Hurricane Katrina. The cumulative cost of this restoration is estimated to be on the order of \$500 million.
- 13. Represents reimbursement of expenditures for CPRA (non-DWH) oil spill response activities.
- 14. Represents funding applied for in December 2016 to fund select Monitoring Data and Interpretations tasks (see Table 4-3).
- 15. Represents salary and other work-in-kind reimbursements for services performed on projects in funding programs listed in the table above.

### ▶ Table 4-2: Projected Three-Year Expenditures¹ (FY 2018 - FY 2020)

Program / Funding Source	FY 2018	FY 2019	FY 2020	Program Total (FY 2018 - FY 2020)
CWPPRA State Expenditures (not including Surplus expenditures) <sup>2</sup>	\$8,509,289	\$14,095,011	\$13,499,919	\$36,104,219
CWPPRA Federal Expenditures <sup>3</sup>	\$96,384,103	\$75,904,989	\$76,500,081	\$248,789,173
WRDA Project Expenditures (not including Surplus expenditures)	\$0	\$0	\$0	\$0
Surplus Projects and Program Expenditures	\$161,284,403	\$26,000,310	\$7,054,375	\$194,339,088
Community Development Block Grants	\$9,806,680	\$11,680	\$0	\$9,818,360
HSDRRS 30-Year Payback⁴	\$0	\$0	\$98,000,000	\$98,000,000
MOEX Project Expenditures	\$704,687	\$131,250	\$704,687	\$1,540,624
DOTD Interagency Transfer- HNC Deepening Expenditures	\$73,600	\$0	\$0	\$73,600
Capital Outlay Project Expenditures	\$15,560,000	TBD	TBD	\$15,560,000
State-Only Project Expenditures (Non-Surplus)	\$188,184	\$199,864	\$199,864	\$587,912
NRDA Expenditures (Deepwater Horizon)	\$140,820,491	\$38,940,922	\$150,855,241	\$330,616,653
NFWF Expenditures (Deepwater Horizon)	\$54,410,295	\$65,827,227	\$519,239,290	\$639,476,812
Proposed RESTORE Expenditures ( <i>Deepwater Horizon</i> ) (not including Surplus Expenditures)	\$61,718,000	\$48,206,637	\$132,798,175	\$242,722,812
LDNR Mitigation Expenditures <sup>5</sup>	\$500,000	\$500,000	\$500,000	\$1,500,000
LDNR Beneficial Use Expenditures <sup>5</sup>	\$250,000	\$250,000	\$250,000	\$750,000
LDWF Interagency Transfer Expenditures <sup>6</sup>	\$1,000,000	\$0	\$0	\$1,000,000
OM&M- State Expenditures (not including Surplus expenditures)	\$9,126,372	\$8,673,455	\$6,083,374	\$23,883,201
OM&M- Federal Expenditures <sup>7</sup>	\$29,048,815	\$17,423,395	\$15,467,305	\$61,939,515
OM&M- Marine Debris Removal (Partially Reimbused by FEMA)8	\$1,640,130	\$0	\$0	\$1,640,130
GOMESA Expenditures <sup>9</sup>	\$21,850,000	TBD	TBD	\$21,850,000
NAS Research Practice Grant Expenditures	\$200,000	\$200,000	\$200,000	\$600,000
Operating Costs (see Tables 4-3 and 4-4)	\$30,990,089	\$36,800,160	\$39,790,392	\$107,580,641
Total Planned Expenditures	\$644,065,138	\$333,164,899	\$1,061,142,703	\$2,038,372,740

- 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 2019 - FY 2020 are therefore based on prior years'
- 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.
- 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
- 8. Represents anticipated reimbursement associated with recovery from past distasters which has been obligated by FEMA.
- 9. FY 2018 GOMESA expenditures include the GOMESA Infrastructure Program (\$14 million) and Adaptive Management expenditures (see Table 4-3). Projects to receive GOMESA funding will be provided in the FY 2019 Annual Plan to ensure that proper clarity is available regarding the exact amount of available funding and also to ensure consistency with the 2017 Master Plan (which will be in effect at the time of receipt of GOMESA funding).

Section 4 | Projections: 2018 - 2019 - 2020 Section 4 | Projections: 2018 - 2019 - 2020

### ▶ Table 4-3: Programmatic Projected Three-Year Expenditures (FY 2018 - FY 2020)

Program ID	Program Name	FY 2018	FY 2019	FY 2020	Program Total (FY 2018 - FY 2020)
Ongoing Prog	ram Expenditures <sup>1</sup>				
N/A	Beneficial Use Program <sup>2</sup>	\$1,709,653	\$2,000,000	\$2,000,000	\$5,709,653
LA-0251	Barrier Island Maintenance Program <sup>2</sup>	\$2,644,359	TBD	TBD	\$2,644,359
N/A	Vegetative Plantings	\$400,000	\$400,000	\$400,000	\$1,200,000
PO-0162	Assistance to Levee Authorities	\$0	\$1,000,000	\$1,000,000	\$2,000,000
LA-0028	Restoration Partnerships	\$0	\$1,000,000	\$1,000,000	\$2,000,000
N/A	Project Support	\$2,700,000	\$3,000,000	\$3,000,000	\$8,700,000
<b>Total Ongoing</b>	Programs Expenditures	\$7,454,012	\$7,400,000	\$7,400,000	\$22,254,012
Adaptive Man	agement Expenditures				
Future Project	Development				
LA-0255	Project Development and Implementation Program	\$250,000	\$250,000	\$250,000	\$750,000
LA-0025	Innovative Programs	\$0	\$150,000	\$150,000	\$300,000
LA-0261	Non-structural Program Development <sup>2,3</sup>	\$500,000	TBD	TBD	\$500,000
Focused Applie	ed Research				
LA-0257	Louisiana Coastal Engineering, Research and Education⁴	\$40,000	\$0	\$0	\$40,000
LA-0158	Coastal Science Assistantship Program	\$200,000	\$385,000	\$385,000	\$970,000
N/A	Coastal Innovation Partnership Program	\$0	\$225,000	\$0	\$225,000
Science and Te	chnical Advisory Boards				
LA-0260	Master Plan Advisory Committees	\$0	\$0	\$300,000	\$300,000
Model Develop	oment and Refinement				
LA-0250	Master Plan Predictive Models <sup>5</sup>	\$1,650,000	\$2,500,000	\$4,000,000	\$8,150,000
MR-0016- SSPM	Small Scale Physical Model <sup>6</sup>	\$500,000	\$500,000	\$500,000	\$1,500,000
System Wide A	ssessment and Monitoring Program (SWAMP)				
LA-0252	SWAMP Development <sup>4</sup>	\$600,000	\$0	\$0	\$600,000
N/A	Fisheries <sup>6,7</sup>	\$5,800,000	\$6,000,000	\$6,300,000	\$18,100,000
N/A	SWAMP Implementation <sup>4,6,7</sup>	\$17,095,000	\$17,800,000	\$22,580,000	\$57,475,000
LA-0226	Barrier Island Comprehensive Monitoring <sup>5</sup>	\$1,405,300	\$735,300	\$1,927,159	\$4,067,759
LA-0030	CRMS-Wetlands	\$1,250,000	\$1,250,000	\$1,250,000	\$3,750,000
LA-0253	Flood Protection Inspections/Analysis <sup>5</sup>	\$1,800,000	\$2,700,000	\$2,800,000	\$7,300,000
N/A	Regional Geology and Sediment Management <sup>4</sup>	\$400,000	\$400,000	\$400,000	\$1,200,000
Data Managen	nent and Analysis				
LA-0258	Data Management <sup>4</sup>	\$2,400,000	\$2,400,000	\$2,400,000	\$7,200,000
LA-0254	Monitoring Data Interpretations <sup>4,6,7,8</sup>	\$1,200,000	\$1,050,000	\$1,050,000	\$3,300,000

### ▶ Table 4-3: Programmatic Projected Three-Year Expenditures (FY 2018 - FY 2020)

Program ID	Program Name	FY 2018	FY 2019	FY 2020	Program Total (FY 2018 - FY 2020)
Communicat	ion and Messaging				
N/A	Workshop and Conference Development	\$150,000	\$150,000	\$150,000	\$450,000
LA-0249	Coastal Education⁴	\$600,000	\$600,000	\$600,000	\$1,800,000
Total Adaptiv	ve Management Expenditures	\$35,840,300	\$37,095,300	\$45,042,159	\$117,977,759
TOTAL Progr	ammatic Expenditures	\$43,294,312	\$44,495,300	\$52,442,159	\$140,231,771
Programmat	ic Surplus Expenditures (See Table B-5)	\$4,854,012	\$0	\$0	\$4,854,012
Programmat	ic NRDA Expenditures (See Table B-14)	\$11,550,000	\$13,387,579	\$16,479,325	\$41,416,904
Programmat	ic NFWF Expenditures (See Table B-14)	\$7,650,300	\$5,780,300	\$4,795,000	\$18,225,600
Programmat	ic RESTORE Expenditures (See Table B-14)	\$10,040,000	\$9,517,421	\$11,755,675	\$31,313,096
Programmat	ic GOMESA Expenditures	\$6,250,000	\$8,000,000	\$9,600,000	\$23,850,000
Programmat	ic NAS Expenditures	\$200,000	\$200,000	\$200,000	\$600,000
Programmat	ic Operations Expenditures	\$2,750,000	\$7,610,000	\$9,612,159	\$19,972,159

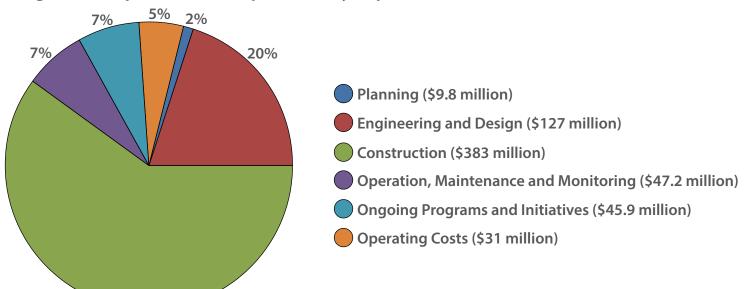
- 1. FY 2018 expenditures for Ongoing Programs are significantly reduced because of lower incoming Trust Fund revenues relative to prior years. Future expenditures are anticipated to return to typical levels as additional funding becomes available.
- 2. FY 2018 expenditures funded by surplus funds.
- 3. FY 2018 expenditures will be used to develop a coordinated strategy for implementing nonstructural projects identified in the Master Plan for coastal communities. This may also include the development of pilot projects in coastal parishes with high levels of risk and vulnerability.
- 4. FY 2018 expenditures funded by RESTORE Adaptive Management Funds.
- 5. FY 2018 expenditures funded by GOMESA funds (provided funding is procured within the fiscal year).
- 6. FY 2018 expenditures funded by NFWF Adaptive Management Funds.
- 7. FY 2018 expenditures funded by NRDA Adaptive Management Funds.
- 8. FY 2018 expenditures funded by NAS Research Practice Grant (see Table 4-1).

### **▶** Table 4-4: State Protection and Restoration Projected Three-Year Operating Expenditures (FY 2018 - FY 2020)

Program	FY 2018	FY 2019	FY 2020	Program Total (FY 2018 - FY 2020)
CPRA	\$23,751,770	\$24,701,841	\$25,689,914	\$74,143,525
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	\$28,240,089	\$29,190,160	\$30,178,233	\$87,608,482

Section 4 | Projections: 2018 - 2019 - 2020

### **▶** Figure 4-1: Projected FY 2018 Expenditures by Project Phase



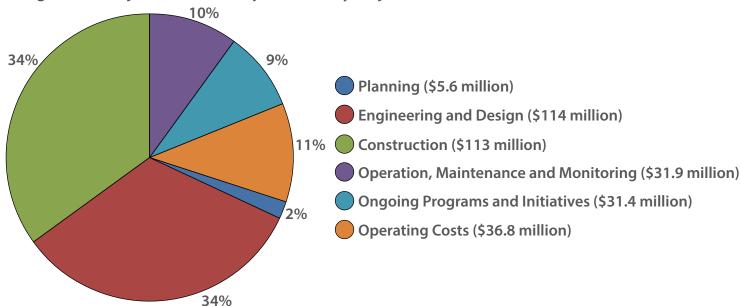
### Notes

Construction includes Beneficial Use (\$1.7 million)

59%

 OM&M includes BIMP (\$2.6 million), Repair/Rehabilitation of Projects (\$759,739), Marine Debris Removal (\$1.6 million) **\$644 million** 

### ▶ Figure 4-2: Projected FY 2019 Expenditures by Project Phase

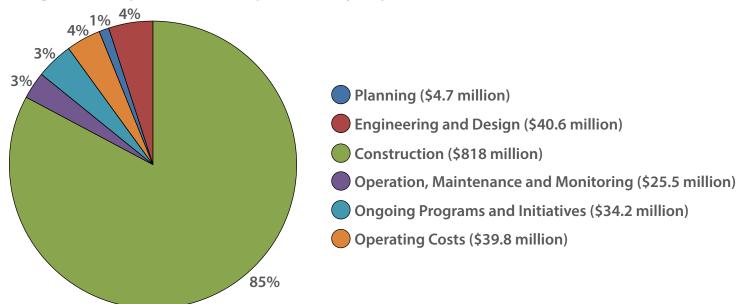


### **Notes**

- Construction includes Beneficial Use (\$2 million)
- Engineering and Design and Construction include CWPPRA adjustment for outlying years (see Table 4-2 for explanation)
- Expenditures do not include GOMESA funding (GOMESA expenditure forecast to be developed following receipt of funding)

**\$333 million** 

### ▶ Figure 4-3: Projected FY 2020 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 million)
- Expenditures do not include GOMESA funding (GOMESA expenditure forecast to be developed following receipt of funding)

**\$963 million** 



### Appendix A Ongoing Protection and Restoration Project Summaries

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		Number	Type	Sponsor	2	Benefited	Levee	Completion		undra archinu	, ,
BERM	Riverine Sand Mining/Scoffeld Island Restoration	BA-0040	НВ	NVA	PLAQUEMINES	909	N/A	2013	\$60,839,484	The goal of this project is to transport sediments from the Mississippi River to restore dune and marsh habitat on Scofield Island. Project was designed under CWPPRA but constructed using Berm to Barrier funds.	2
BERM	Shell Island East	BA-0110	H	NYA	PLAQUEMINES	626	N/A	2014	\$47,679,580	The purpose of the project is to restore the integrity of Shell island, reduce wave energies within the bay area and reestablish productive inhabitation barea. She surrounding area, She island fast was constructed to a length organization of the surrounding area she she island fast was constructed to a length organization of the WAVD88 a massive between or 4.25 feet IAAVD88 and a total iff area of £25 acres.	2
BERM	Emergency Barrier Berms	NA	то	N/A	PLAQUEMINES, SAINT BERNARD	1417	N/A	2011	\$251,000,000	In response to the Deceavable (Archzon oil spill of 2010). The State of Louisana contructed approximately is made is send better along several section of the State's states is arrier is along several section of the State's states is arrier is about a contract to the contract of the State's states is arrier is and so the section of the State's states is arrier is a contract of the oil spill to thousands of series of fragile barrier islands and wellsands in crossfal Louisana Approximately in times of tharmer to manner or constructed and prosting in the barrier islands the Characteria island in State is shared (Research W. 9. 2, 2000 L.). Peteral state (Research W. 9. 2, 200 L.) Peteral state (Research W. 9. 2 and Scionelist Island (Research W. 9. 2) and Scionelist Island (Research W. 9. 2).	1,2
CDBG	Lafitte Area Levee Repair	BA-0082	윺	HUD	JEFFERSON	N/A	4	Pending	\$500,000	This project will repair damages to the existing levees in the Fisher Basin Area. This damage was caused by heavy equipment and vehicles used for the levee for flood lighting activities during five and Gustav. This project will provide for a 4 inch lift on approximately a formle article for the vee.	2
CDBG	Rosethorne Wetland Assimilation Project	BA-0083	£	HUD	JEFFERSON	334	NIA	Inactive	\$1,093,769	The Rosethome treatment far thy currently discharges treated municipal effluent into Bayou Barataria. This project was intended to unlike secondarity treated municipal effluent diverted from the Rosethome treatment facility, to restore and sustain coastal wetland habitats.	2
CDBG	Bayou Lafourche Fresh Water District - Walter S. Lemann Memorial Pump Station Rennvations	BA-0084	G.	HUD	ASCENSION	NiA	N/A	2014	\$3,194,355	This project will replace two of the existing pumps and motors at the Walter S. Lemann Pump Station. This project will also install an emergency generator to operate the pump station during power outlages.	2, 3A
CDBG	Madisonville Bulkhead	PO-0087	SP	HUD	STTAMMANY	N/A	0.1	2014	\$2,144,266	This project will provide construction of improvements to the existing bulkhead along the shore of Lake Pontchartrain and the Tchefuncte River at the Madisonville Marina.	1
OBGO	St. Tammany Parish W atershed Management Study	PO-0151	Ŧ	HUD	STTAMMANY	NIA	N/A	N/A	\$1,363,233	This project involves a planning study to evaluate the feasibility of watershed management measures in St. Tammany Parish.	-
CDBG	Falgout Canal Road Levee	TE-0063	FD	HUD	TERREBONNE	NIA	4.4	2017	\$24,803,191	This project will replace, modify or repair 6 existing water control structures, dredge 33,000 feet of interior channels, and construct 2 new structures to allow frestwater to flow under the existing roadway and proposed levee. The goal of the project is to restore project area saffinites to beate that are advanted to frest and intermedate marshes and to improve the efficiency of frestwater flow within the hash area by reseasable from the interior flow within the	3A
CDBG	Cut-Off/Pointe Aux Chene Levee	TE-0078	Ŧ	HUD	LAFOURCHE	N/A	8	Pending	\$8,468,857	ne missing gap that existing levee syste	3A
OBBC	Franklin Floodgate Sinkable Barge and Pump Station (Phase 1)	TV-0052-1	Ŧ	HUD	STMARY	NIA	0.2	2012	\$4,591,380	This project involves the construction of a sinkable barge structure on Frankin Canal to prevent storm surge from inundating the town of Frankin.	38
CDBG	Franklin Floodgate Sinkable Barge and Pump Station (Phase 2)	TV-0052-2	ᇁ	HUD	STMARY	NIA	0.2	2015	\$2,148,866	This project will construct a pump station adjacent to the strikable barge structure on Franklin Canal (constructed in Phase 1 of the project) to prevent storm surge from inundating the town of Franklin.	38
CDBG	Flood Control Structure at Boston Canal (Deauthorized)	1V-0058	£	DUH	VERMILION	NIA	NIA	Deauthorized	\$5,800,000	This project invokes a flood control structure at the intersection of Boston Canal and the OWW, which could be closed in the event of a hurricane or tropical storm intersection of Boston Canal and the GWW, that could be closed in the event of a hurricane or tropical shown.	88
CDBG	Front Ridge Chenier Terracing/Protection	TV-0060	TE	HUD	VERMILION	40	NVA	Pending	\$2,078,162	This project wil construct approximately 85,000 linear feet of marsh terraces south east of Pecan Island in Vermilion Parish.	4
CDBG	Bayou Tigre Flood Control Project	TV-0067	Η	HUD	VERMILION	N/A	0.1	Pending	\$6,343,862	This project involves the implementation of flood control measures in Bayou Tigre.	4
CIAP	M organ City Industrial Road	AT-0005	10	USFWS	STMARY	NIA	NA	2015	\$1,247,000	The project is a road alignment that begins at the First Street floodgade in Morgan City, LA. The alignment will proceed along the unprodected become the control of the co	æ
CIAP	Atchafalaya Long Distance Sediment Pipeline	AT-0015	OT, MC	USFWS	TERREBONNE	N/A	NIA	N/A	\$1,500,000	CIAP funds allocated to this project are for the purpose of advancing the design of a sediment pipeline which will be used to restore marsh in lower Terrebonne Parish.	3A
CIAP	Lake Salvador Shoreline Protection (Phase III)	BA-0015-X2	SP	USFWS	ST CHARLES	844	N/A	2009	\$2,300,000	This project involved the construction of approximately 7,000 linear feet of shoreline protection near the northwest shore of Lake Sakador.	2
CIAP	East Grand Terre	BA-0030	Н	USFWS	PLAQUEMINES	683	NIA	2010	\$25,426,247	The project posits to restine 2.8 miles and 520 acres of barries and 450 acres of marsh by dredging 3.3 million cubit yards of lodfstore material and rebuilding the Island. The project was designed under the CMP PRA Program and constructed under the CMP program.	2
CIAP	Barataria Land Bridge Dedicated Dredging (CIAP)	BA-0036	MC	USFWS	JEFFERSON	363	N/A	2010	\$18,000,000	The objective of this project is to create and or nourish 1200 acres of marsh in conjunction with CWPPRA project BA-36.	2
CIAP	Long Distance Mississippi River Sediment Pipeline	BA-0043-EB	OT, MC	USFWS	JEFFERSON,	371	NVA	2016	\$66,094,073	The goal of this project is to use material dredged from the Mississippi River and transported via new permanent pipeline across the Barataria Basin to create marsh and/or a ridge.	2
CIAP	Caminada Headlands	BA-0045	Æ	USFWS	LAFOURCHE	730	NIA	2014	\$70,679,580	The proposed project will restore and protect beach and dune habitat across the Caminada Headland through the direct placement of sediment (sandy material for the beach and dune habitat) from offshore borrow areas.	2
CIAP	LA 1 Improvements - Fourchon to Leeville Bridge (CIAP)	BA-0055	ОТ	USFWS	LAFOURCHE	N/A	N/A	2010	\$33,000,000	This project is located 60 mines south of New Orbeans in lower Ladourche Parish telveen Lewelle and Port Fourthon. The project involves the construction of a 5 mile long, two lane elevated highway (two, 1.2 if alens and two, 8 if shoulders). The Phase IA project connects to the Phase IB and Phase IC projects (in Lewelle) by refocating L4 from a new admirment.	2
CIAP	Fringe Marsh Repair	BA-0058	MC	USFWS	PLAQUEMINES	300	NIA	2014	\$8,756,605	This program involves the reestablishment of approximately 300 acres of critical areas of fragile marsh in lower Plaquemines Parish to help minimize the continued fragmentation of wetlands system throughout the coast.	2
CIAP	M ississippi River W ater Reintroduction into Bayou Lafourche - BLFWD	BA-0161	FD	USFWS	ASSUMPTION, LAFOURCHE	Not Available	N/A	2016	\$20,000,000		2, 3A
CIAP	Shoreline Protection Cat Island	BA-0162-CAT	SP	USFWS	PLAQUEMINES	40	NIA	Inactive	\$1,200,000	Interpolate about a control and the state of submitted was the control and the	2
CIAP	Shoreline Protection Emergency Restoration	BA-0162-SPER	SP	USFWS	PLAQUEMINES	40	NIA	2013	\$355,780	This project consist of a series of submerped wave breaks surrounding shoreline segments in Lower Plaquemines Parish to protect the old danaged abroises along the existing island remnants from further wave danage while also collecting sediment in order to naturally rebuild the degraded infrastructure of the islands.	2
CIAP	Bayou Lamoque Floodgate Removal (Inactive)	BS-0013-EB	FD	USFWS	PLAQUEMINES	099	NIA	Inactive	\$2,070,559	This project involves the removal of floodgates to allow unimpeded flow of freshwater through the water control structures.	1
CIAP	FIFilsland Restoration	CIAPFIFI	g.	USFWS	JEFFERSON	126	NIA	2003	\$751,406	This project provides protection for approximately 100 acres of existing island hakt at (Grand Isle, 8. Fit island) by the installation of approximately 4.000 linear leaf or fock shore protection. An additional \$999,500 was contributed from the CIAP of 2001 for the construction and design of this project.	2
CIAP	Marsh Creation via Bevefical Use (Phase 10 (Black Lake)	CS-0035-EB	MO	USFWS	CAMERON	300	NVA	2010	\$10,000,000	This project involves the creation of approximately 200 acres marsh through beneficial use of dredged material from the Calcasieu Ship Channel.	4
CIAP	Trosclair Road Repairs	CS-0047	TO	USFWS	CAMERON	N/A	N/A	2009	\$2,039,592	This project involves construction an overlay on Trosciair Road, a parish road that is heavily used by oilfield traffic. The project is	4

### AGOING PROTECTION AND RESTORATION SLIMMARIE

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CPRA Program	Name	State Project Number	Project Type	Sponsor	Parish	Acres Benefited	Miles of Levee Improved	Completion	Total Budget	Project Description	Planning Unit
CIAP	Bush Canal and Bayou Terrebonne Bank Stabilization	DNR 2513- 0311	SP	USFWS	TERREBONNE	4300	NIA	2007	\$3,700,000	This project reconstructed the south bank of Bush Canal using material dredged from the canal. The restored bank-line was then covered with operated Bank and armored with stone rip-ap. The eibuil bank-line will help to driminish storm surge as well as reduce salewater intrusion. This project was funded by the CAP of 2001.	3,4
CIAP	Performance Evaluation - Barataria Land Bridge Biological Moniforing	LA-0012-2	TO	USFWS	JEFFERSON	N/A	NVA	N/A	\$432,618	This research study will be conducted on the Barataria Land Bridge Dedicated Dredging Project (GA-36) and will assess the effect of dredged sediment application on soil-vegetation-hydrologic dynamic swithin deteriorating interior brackish marshes.	2
CIAP	Performance Evaluation - Freshwater Bayou	LA-0012-3	TO	USFWS	VERMILION	NIA	N/A	N/A	\$286,029	This study focuses on the expectated vertical elevation change of the dredge stury fit due to immediate and long term settlement and consolidation. Ver performed reviewing previous analyses performed to their prince our talking to predict settlement and consolidation; researching new methods; models, and techniques that could improve now. CPRA design teams prenti settlement and consolidation; researching new methods; models, and techniques that could improve now. CPRA design teams prenti settlement and consolidation; analyses performed to werify the accuracy of the settlement and consolidation analyses performed during project design.	3A
CIAP	CIAP Performance Evaluation - Barrier Island Studies	LA-0012-5	10	USFWS	JEFFERSON, LAFOURCHE	NA	N/A	NIA	\$558,606	Pass Morphology m vegetation samp	2
CIAP	CIAP Performance Evaluation - Caminada Moreau Subsidence Study	LA-0012-6	ОТ	USFWS	JEFFERSON, LAFOURCHE	NIA	NIA	NA		Research to be conducted on the Cammada Headland in order to quantify the amount of consolidation in the substrate underlying barrier islands resulting from placement of sand for Island restoration.	2
CIAP	CIAP Performance Evaluation - Borrow Area Management and Montoring	LA-0012-7	10	USFWS	COASTWIDE	N/A	N/A	N/A.	\$813,512	The Borrow Area Monitoring and Management (BAMM) was intaled to understand the evolution of borrow pits for restoration projects (richstore, areatorine, port efficiency by early interesting the particular force on the finiting fides and types of sedimental and gradient of the pit suppers, as well as potential dredge irmatar. The study involves the collection of geophysical geotechinical and water quality data from several borrow areas to understand not only the above ovjectives but also the hypoxic conditions vie-à-vis depth of cut of borrow area.	COASTWIDE
CIAP	Coastal Forest Conservation Initiative	LA-0013	PP, OT	USFWS	COASTWIDE	40000	NIA	NIA	\$20,166,136	A program to preserve existing coastal forest via purchase of fee title or conservation servitudes from willing land owners.	COASTWIDE
CIAP	Rockefeller Shoreline Protection Demo (CIAP)	ME-0018-EB	SP	USFWS	CAMERON	23	NVA	2009	\$8,500,000	The project involves the construction of three types of shoreline protection structures as a demonstration to determine which type(s) of structures are successful in protecting the shoreline. Successful structure(s) are intended for use in a larger CWPPRA Project.	4
CIAP	Grand Lake Shoreline Protection (CIAP)	ME-0021-EB	a S	USFWS	CAMERON	495	NA	2010	\$9,129,919	This project involves the construction of approximately 37,800 linear feet of shoreline protection on the south shore of Grand Lake from Superior Canal to Tebo Point.	4
CIAP	Mississippi River Delta Strategic Planning - SSPM Expansion	MR-16-SSPM	ОТ	USFWS	EAST BATON ROUGE	N/A	N/A	2017	\$13,520,000	This project whokes the construction of a new expanded small scale Physical Model (SSPM), cauche of modeling smaller those and with an increased area of coverage in comparison to the previous SSPM. The project will also include the construction of a new facility to house the model as well as a failtain the use of the model for public outback the educational enforts. The project will be a valuable educational enforts. The project will be a valuable beducing the public providing insight and qualified the understanding of critical aspects of the impacts of major diversions of water and sediments, future conditions, and rangeling impacts.	1, 2, 3A
CIAP	Violet Diversion	PO-0035-EB	FD	USFWS	ST BERNARD	13200	NVA	NVA	\$1,170,982	This project investigates the diversion of frestivate from the Missssspp River into Lake Borgne to freshen Missssspp Sound, Central Wetlands, and Bloxi Marsh area. The Feasblifty Study for this project is being done as part of the MRGO Ecosystem Restoration FS.	F
CIAP	Orleans Land Bridge SP & Marsh Creation	PO-0036-EB	SP	USFWS	ORLEANS	140	N/A	2013	\$20,860,000	This project provides shoreline protection on the northwest rim of Lake Borgne west of Allgator Point.	-
CIAP	East LaBranche Shoreline Protection	PO-0043	SP	USFWS	ST CHARLES	Not Available	N/A	2015	\$3,753,816	Through various funding mechanisms, including CWPPRA and CIAP, all but approximately 18,000 linear feet of the East LaBranche shoreline label protection. Saint Chaines Parish has acquired \$1,753,816 of CIAP funding to construct 1,400 linear feet of shoreline protection. PO-43 East LaBranche Shoreline Protection). The State has contributed additional \$2,000,000 in CIAP funding to construct shoreline protection for the most oritical and such states.	1
CIAP	Central Wetlands Demonstration	PO-0073	HR	USFWS	ST BERNARD	10-20	N/A	2016	\$3,500,000	This demonstration project investigates the beneficial use of Ferrate as an alternative to chlorine to treat effluent at the SW/BNO's East Bank Sewer Treatment Plant.	-
CIAP	Central Wetlands - Riverbend	P 0-0073-1	HR	USFWS	ST BERNARD	346	NVA	2015	\$2,000,000	This project involves the discharge of effluent from a CWBNO oxidation plant to be discharged into the Central Wetlands. This would also save St. Bernard Parish the cost of running a sewer line from the Oxidation plant to the Aurister Pant.	-
CIAP	Central Wetlands - EBSTP to A 2	P 0-0073-2	HR	USFWS	ST BERNARD, ORLEANS	473	NVA	Inactive	\$4,500,000	This project involves the introduction of freshwater from the SWBNO'S East Bank Sewer Treatment Plant to combat sait water influsion from MFOO and from MFOO and from stated and from the from the from the from the BBSTP to St. Bernard parish and vestelable plantings to mounts and sustain marsh.	٢
CIAP	Central Wetlands Demonstration Expansion	PO-0073-3	Ħ	USFWS	ORLEANS	17.2	N/A	2016	\$4,500,000	The Central wild stants Demonstration Expansion project would readure up to 17 series of critical wildenties in the area designated A-1 using wetlands assimilation for treated westlewater efflicient and/or benefit at use of sability soft from the East Bank Was dewater retainers Flant, other estiment from SWBVO operations. Once the cell race been completed, the tritot is to promote an ecological other table with upon cypressipation from cypressipation trees to froating marsh islands. March islands shall encourage the development of habitat from vegitands and fish.	-
CIAP	Living Shoreline	PO-0148	SP	USFWS	ST BERNARD, JEFFERSON, ORLEANS	5340	NA	2017	\$26,500,000	The primary project involves the construction of bloengheered oyster reefs along coastalfringe marsh in St. Bernard Parish. The installation will take place from Etol Point to the mouth of Bayou La Loutre around Lydia Point and Paulina Point extending around the southern shore of Treasure Bay. Other related Living Shoreline projects are in Plaquemines Parish and Jefferson Parish.	1,2
CIAP	Rainey Audubon Wildlife Sanctuary Earthen Terraces	RAINEY	MC	USFWS	VERMILION	640	NVA	2005	\$951,869	The project consists of constructing approximately 35,000 linear feet of terraces. The terraces were created by dredging in shallow open water areas and pling the spoil on one side of the borrow area. An additional \$381,783 was confrauted from the CAP of 2001.	38
CIAP	GIWW Bank Restoration of Critical Areas of Terrebonne (CIAP)	TE-0043-EB	SP	USFWS	TERREBONNE	1,180	NVA	2011	\$7,274,676	The project objective is to restore critical lengths or detenorated channel banks and stabilize/armor selected critical lengths or detenorated channel banks with hard shoreline stabilization materials.	38
CIAP	Freshwater Bayou Bank Stabilization	TV-0011-B-EB	SP	USFWS	VERMILION	223	N/A	2014	\$13,568,804	The goal of this project is to stop erosion along the bank of Frestwater Beyou Canal and to protect the interior wetlands from salwater intrusion, heread that exceed that termings and wake-induced erosion. This will be achieved by constructing a rock dike along critical areas of the eastern and western banks of the card.	38
CIAP	Port of Iberia Bridge Replacement - Port Road over Commercial Canal	TV-0028	ОТ	USFWS	IBERIA	NA	NA	2013	\$625,792	This project involves the replacement of the bridge on Port Road over Commercial Canal at the Port of Iberia The Port of Iberia handles a substantial amount of OCS produced products and the large equipment used in transporting these products take a major toil on the ports bridges and roadways.	38
CIAP	Port of Iberia Bridge Replacement - David Dubois Road over Commercial Canal	TV-0030	ТО	USFWS	IBERIA	NIA	N/A	2013	\$1,058,013	This project involves the replacement of the bridge on David Dubois Read over Commercial Carial at the Port of liberia. The Port of the brit analysis so substantial amount of OCS produced products and the large equipment used in transporting these products takes a major toll on the port's bridges and manayery.	38
CIAP	Acadiana Regional Airport Street Improvements - Admiral Doyle Drive	TV-0031	ОТ	USFWS	IBERIA	NIA	N/A	2016	\$1,114,942	This project twokes pathing and overlaying 5.31 theet (about 1 mile) of Admiral Doyle Road around the Acadena Regional Atront in theira Parish from its intersection with L4.3212 to the end of the four lane section. The project provides improved access to both the airond and the Port of logist, both of white assignor, O.S.S. airillies and commerce.	38

CDD & December		Period	- 1	and and	Dorloh	A	300	and the contract of	Total Design		tion I was
		Number	Type	Sponsor		Benefited	Levee	Completion			,
CWPPRA	Atchafalaya Sediment Delivery	AT-0002	OS .	NMFS	STMARY	2232	N/A	1998	\$2,532,147	The objective of this project is to enhance natural delta growth by re-opening Natal Channel and Castille Pass. Natal Channel was re- established with a 120-foot wide, 10-foot deep, 8,800-foot long channel and Castille Pass with a 190-foot wide, 10-foot deep, 2,000- foot long channel. Material dredged (700,925 cubic yards) as a result of construction was strategically placed at elevations mimicking natural data bobes.	#
CWPPRA	Big Island Mining	AT-0003	MO	NMFS	STMARY	1560	N/A	1998	\$7,077,404	The project includes creating a new western deta tobe behind Big island to enhance the accretion of land beyond the west bank of the Archadasya River. Construction included dregiging of a main stem and five branch channels designed to minic natural channel burkrations. Dregged metalema was stratigically proceed at level and more many including natural deta lobes. Re-opening the channels is allowing continued natural segiment transcott and marsh prowth.	#
CWPPRA	Castille Pass Channel Sediment Delivery (Deauthorized)	AT-0004	gs	NMFS	STMARY	589	N/A	Deauthorized	\$1,717,883	This project investigates dredging a system of distributary channels to create 589 acres of marsh through sediment placement and natural deposition.	38
CWPPRA	GIVEN OF THE CONTROL OF T	BA-0002	۴	NRCS	LAFOURCHE	175	N/A	2000	\$12,896,358	The project includes the construction of features (including canal plugs, rock welts, fixed crest welts with boat hays, one variable crest were, and the subdiding of two wellow banks that have eroder away) in eastern Lafourche Parish to restore the area to the hydrologic conditions that revealed historials.	2
CWPPRA	Naomi Outfall Management	BA-0003-C	MO	NRCS	JEFFERSON	634	N/A	2002	\$2,285,972	The project manages the outfail of the existing eight sphons by controlling the movement of the diverted waters. The siphons divert seafment seamer water from the Mississipp River into the west bank wetlands to refard salwater intrusion and enhance wetland productivity.	2
CWPPRA	West Pointe a la Hache Outfall Management (Deauthorized)	BA-0004-C	Ħ	NRCS	PLAQUEMINES	646	N/A	Deauthorized	\$6,620,516	The project goal is to optimize use of fresh water and sediment supplied by existing sphon by reducing channelized flow and routing the diverted flow to nourish marshes. Project was deauthorized in 2015.	2
CWPPRA	Lake Salvador Shore Protection Demonstration	BA-0015	SP	NMFS	ST CHARLES	A'N	N.A	1998	\$5,856,506	The objective of this project is to maintain the shoreline along a section of Lake Salvador and help re-establish the natural hydrology of interior marsh. Phase tof the project was constructed to demonstrate the effectiveness of four separate types of segmented the restandance of four separate types of segmented the restandance of some the project project included the installation of 8,000 feet of continuous rock structure along the west masterior of the place.	2
CWPPRA	Fourchon Hydrologic Restoration (Deauthorized)	BA-0018	ቸ		LAFOURCHE	N/A	N/A	Deauthorized	\$7,703	The goal of this project was to restore tidal exchange to 2,400 acres of impounded wellands. The project was officially deauthorzed by the goal of this goal of this goal of the landowner.	2
CWPPRA	Barataria Bay Waterway Wetland Restoration	BA-0019	MC	USACE	JEFFERSON	510	NVA	1996	\$1,170,000	The project beneficially used dredge material to enlarge Queen Bess Island.	2
CWPPRA	Jonathan Davis Wetland Protection	BA-0020	HR, SP	NRCS	JEFFERSON	510	N/A	2003, 2012	\$28,886,616	The goal of this project is to restore the natural hydrobgic conditions of the area and reduce shoreline erosion. The goal was partly accomplished frough roomstruing a semies of waken control shortbure. Construction unit 4 consists of 4,180 if of rock rip rap revenment, 15,10 if of concrete sheetile wall, puts and mast creation.	2
CWPPRA	Bayou Perot/Bayou Rigolettes Marsh Restoration (Deauthorized)	BA-0021	MC	NMFS	JEFFERSON	1065	N/A	Deauthorized	\$20,964	This project was authorized to protect detendrated intermediate to-brackish marsh located between Lake Sakador and Little Lake by using dregglor affactals to read solitish the storeful. Dust to aurushabe and rapitly groding site, the project was deemed unteasible and was officially deathorized by the CWFPR.1 ask force in Januar of 1983.	2
CWPPRA	Bayou L'Ours Ridge Hydrologic Restoration (Deauthorized)	BA-0022	H	NRCS	LAFOURCHE	737	NIA	Deauthorized	\$371,232	was proposed to restore natural hydrologic flow to t eries of canal closures and two water control structu ni 2013 because of landiridh's issues	2
CWPPRA	Barataria Bay Waterway West Side Shoreline Protection	BA-0023	SP	NRCS	JEFFERSON	1789	N/A	2000	\$3,304,787	The project objective is to rebuild the west bank of the Dupree Cut to protect the adjacent marsh from unnatural water exchange and subsequent erosion. A rock olike was constructed along 9,400 linear feet of the west bank of the Banalaria Bay Waterway.	2
CWPPRA	Myrtle Grove Siphon (Deauthorized)	BA-0024	FD	NMFS	PLAQUEMINES	NIA	NVA	Deauthorized	\$481,802	The goal of the project is to reduce salwater intrusion and to nountsh existing marsh. This will be accomplished by diverting water through a spinor fronth be thought a spinor from the More of the CMPPRA. Task Force in October 2007 because a larent diversion was authorized at the same location (see BA-33).	2
CWPPRA	Bayou Lafourche Siphon (Deauthorized)	BA-0025-A	FD	EPA	LAFOURCHE	428	NVA	Deauthorized	\$45,922	The goal of the project is to reduce marsh loss adjacent to Bayou Lafourche by introducing nutrient and sediment laden river water through large sphon pipes. This project was reauthorized on the 11th PPL as BA-25b.	2
CWPPRA	Mississippi River Reintroduction Into Bayou Lafourche (Deauthorized)	BA-0025-B	FD	EPA	ASSUMPTION, LAFOURCHE, TERREBONNE	85000	N/A	Deauthorized	\$9,619,586	The goal of the project is to restore and protect the health of marshes in the Barataria and Terretonne basins through reintroduction of sectment and nutlerial bate. Mississipp River water via Bayou Lafourche. This project was organially authorized on the 5th PPL as BA-25. This project was officially additionated by the Breaux Act Task Force in october 2007, however, engineering and design will be continued by the CPRA using after funds.	2
CWPPRA	Barataria Bay Waterway East Side Shoreline Protection	BA-0026	dS	NRCS	JEFFERSON	217	N/A	2001	\$5,224,477	The objective of this project is to rebuild the banks of the BBWW to protect the adjacent marsh from excessee tidal action and assistant and the project consists of 17,600 (3.3 miles) of levee constructed with dredged material from the BBWW, and 17,600 (3.3 miles) of flower constructed with dredged material from the BBWW, and 17,600 (3.3 miles) of flower constructed with dredged material from the BBWW, and 17,600 (3.3 miles) of flower constructed with dredged material from the BBWW is not 17,600 (3.3 miles).	2
CWPPRA	Barataria Basin Landbridge Shoreline Protection, Phases 1 and 2	BA-0027	SP	NRCS	JEFFERSON	1304	N/A	2009	\$31,288,623	The objective of the project is to select a cost-effective erosion control technique to stop the erosion on the southwestern shoreline of Bayou Perot and the southeastern shoreline of Bayou Rigolettes. The length of protection is estimated to be approximately 71,000 feet.	2
CWPPRA	Barataria Basin Landbridge Shoreline Protection, Phase 3	BA-0027-C	SP	NRCS	JEFFERSON, LAFOURCHE	5587	NVA	1999, 2008, 2017	\$46,231,597	The project tested sections of different shoreline protection types, such as, concrete panel wal, rock and light rock. These projects have constructed over 41,000 feet of shoreline protection.	2
CWPPRA	Barataria Basin Landbridge Shoreline Protection Phase 4	BA-0027-D	dS	NRCS	JEFFERSON	689	N/A	2006	\$17,709,216	This project romsist sof 31,500 feet of foreshore not, dike with a lightweight aggregate core or concrete sheetpile and will incorporate Yish dips" and openings at historic natural channels to eliminate shoreline erosion and deterioration of the Barataria landbridge.	2
CWPPRA	Vegetative Plantings of a Dredged Material Disposal Site on Grand Terre Island	BA-0028	۸۸	NMFS	JEFFERSON	127	NVA	2001	\$526,314	This project involved the installation of vegetative plantings on previously constructed marsh and dune platform.	2
CWPPRA	LA Highway 1 M arsh Creation (Deauthorized)	BA-0029	ЭМ	EPA	LAFOURCHE	146	NVA	Deauthorized	\$250,257	The objective of this project was to create marsh habitat in a large open water area adjac ent to Louisana Highway I using dredged marshall make proposed broncow areas. This project was officially deauthorized by the CWPPPA Task Force in February of 2005 because I was determined to be fifesale.	2
CWPPRA	EastMvest Orand Terre Islands Restoration (Transferred)	BA-0030	MC	NMFS	JEFFERSON	403	NVA	Transferred	\$2,211,739	The goal of this project is to stabilize and benefit 1,575 acres of barrier island habitat and extend the island's life expectancy. Dredged material will be used to create durie and marsh habitat on East Grand Terre island. This project was constructed using CIAP 2007 funds.	2
CWPPRA	Detta Building Diversion at Myrtle Grove (Transferred)	BA-0033	OS .	USACE	JEFFERSON, PLAQUEMINES	8891	NIA	Transferred	\$327,422	The objective of this project is to divert Mississippi River water and sediment for the ureation of new emergent wetlands. The project will involve installation of gated box cuberts on the west bank of the Mississippi River in the vicinity of Myrids Grove, decicated dredging from the Mississippi River to create mash in the vikiny of Bayou object, the Bardaria Bay Waterway, and the Wilkinson Canal, or a combination of these actions. This project was transferred to the LCA Program.	2
CWPPRA	M Ississippi River Reintroduction Into Northwest Barataria Basin (Transferred)	BA-0034	FD	EPA	ST JOHN THE BAPTIST, ST JAMES, LAFOURCHE	5134	NIA	Transferred	\$17,098,769	The goal of this project is to restore the natural hydrobogic regime and add nutrients to adjacent swamp areas. The project would utilize a freshwater diversion/spinor from the Missespip/River to northwest Baradaria Basin wetlands with gapping of spoil barks and placement of culvents under LA Highway 20. The scope of the project was changed and the revised project was re-nurribered BA-34-24.	2
CWPPRA	Hydrologic Restoration and Vegetative Plantins in the Lac des Allemands Swamp	BA-0034-2	HR, VP	USFWS	STJOHNTHE BAPTIST, ST JAMES, LAFOURCHE	5134	NIA	Pending	\$14,355,710	The goal of this project is to restore the natural hydrobigic regime and add nutrients to adjacent swamp areas via hydrobigic restoration. Project features should be interpretation of sgot bank gates, classet, and order widrobigs bringovernents for the impounded swamps to everse the impoundent distorts that are currently sentous impairments to everse the impoundent distorts that are currently sentous impairments to swamp health.	2
CWPPRA	Pass Chaland to Grand Bayou Pass	BA-0035	НВ	NMFS	PLAQUEMINES	359	NVA	2009	\$46,414,530	This project involved the creation of a dune and marsh platform on the north side of the Gulf of Mexico adjacent to Bay Joe Wise. Sand fencing and vegetation were installed.	2
CWPPRA	Dedicated Dredging on the Barataria Basin Landbridge	BA-0036	MC	USFWS	JEFFERSON	2800	N/A	2010	\$36,281,893	Approximately 5.88 p.00 cubic yards of material was placed in two contained marsh creation areas to construct approximately 1,211 acres of intential marsh at a final elevation of 4.25 NAVD 88. Approximately 3,901,000 cubic yards of material was placed in adjoining fill areas to noutrish approximately 1,578 acres of marsh.	2
CWPPRA	Little Lake Shoreline Protection/Dedicated Dredging Near Round Lake	BA-0037	HM, SP	NMFS	LAFOURCHE	713	NIA	2007	\$44,931,412	This project is designed to protect area watehords, which to surenify experience high rates of stroreline eroskin. This project protects approximately 2,1000 feed of the Lake shoreline, create 488 acres of integrinende, sund mourish an additional 532 acres of fragmented, substitution framed this contract.	2
CWPPRA	Pelican Island and Pass La Mer to Chaland Pass Restoration	BA-0038	вн, ур	NMFS	PLAQUEMINES	1117	NIA	2012	\$52,893,695	The objectives of this project are to create barrier island habitat, enhance storm-related surge and wave protection, prevent overtopping during storms, and increase the volume of sand within the active barrier system. This project was first authorized on the 9th PPL as Barrier Island Restoration Grande Terre to SW Pass (B4-32). Construction of the Pass La Merto Chaland Pass Restoration segment was commelted in 2007.	2

# NGOING PROTECTION AND RESTORATION SLIMMARIES

Planning Unit	2	2	2	2	2	2	2	2	2	-	2	2	2	2	2	-	-	-	-	-	1	1	1	1	-	1	2	4	4	4	4
Project Description	The goal of this project is to create/restore 493 acres of bracksh marsh by delwerng via pipeline, dredged material from the Missssspol River to an adjacent area within the Barafaria Basin, and planting march vegetation.	The goals of this project are to repair breaches and tidal inelst int els shoreline, reinforce the wxisting shoreline with sand, and increase fine island with with back barrier marsh creation to increase longerty. This project was transferred to the Berm to Barrier Program for construction.	This project involves the construction of approximately 1,000 feet of concrete pile and panel wall and 10,900 feet of rock revetment, along the south store of The Pen and Bayou Dupont. Dedicated designing was used to create approximately 14 acres of marsh, and nourish an additional 107 acres of marsh, within the trangular area bounded by the south stone of The Pen, the Baratara Bay Wataway (Doute Cup and the Cheole San Peline Canal.	The goals of this project are to create approximately 438 acres of wetlands, reduce tidal exchange in marshes surrounding Lake Hermitage using material dredged from the Mississippi River.	The goal of this project is to create nourish marsh using sediment hydraulically dredged from the Mississippi River and pumped via pipeline to the project area. The project was constructed as part of BA-0042.	This march and ridge creation project will nourish approximately 118 acres of march and create 15 acres of martine ridge by long distance numbing of Mississippi River sediment.	This project will create 328 about acres of marsh, nourish about 140 acres of marsh and build about 20,000 if of ridge.	The project goal is to maintain shrowline integrity and create and restore saline marsh on Chenier Ronquille. The project knowles decisioned decigning from nearshore Guif deposits to creat saline marsh in open water areas and nourish existing marshes and barrier shoreline in project area. Internsive durie plantings in the project area were also proposed. This project was transferred to MRDA for construction.	This project involves the creation of approximately 423 acres and nourish approximately 337 acres of marsh using sediment dreaged from Turtle Bay or Lifle Lake. Existing sanal spoil banks, amergent marsh, and imfact segments of confariment dikes will be used to guide the distribution of the dreaged material. Containment dikes will be degraded as necessary to residabilish hydrologic connectivity with adjacent wetlands.	This project involves dedicated dredging from the Mississippi River to create and nourish 415 acres of marsh.	This project involves the creation of approximately 300 acres of back barrier intentidal marsh and nourishment of 130 acres of emergent marsh behind 3.5 miles of the Caminata beach using material dredged from the Gulf of Mexico.	The goal of this project is to re-create approximately 342 acres of marsh habitat in the open water areas and nourish marsh along the pastern side of the Bayou Grande Chemiere nithe, as well as create 12 acres of forested coastal ridge habitat.	In addition to having one of the highest shoreline retreat rates in Louisiana, Carninada Headland has suffered significant shoreline bosses due to recent humans. As the beat ha may durin outline to intradict and the continue and some that so that no newly formed open water areas. Carninada Headland deterration threatens flourisands of agrees of wetlands and critical infrastructure to the north, including Port Fourchon, LA Highwa 1, and the lower Lafourche levee system. This project will create and or nourish 444 acres of back barner interfalt mansh and reste as platform upon which the beat and of uncontinued to the support will create and of the support will be added to the support that acres of back barner interfals and other and sets trainer marsh projects.	The project goal is to create approximately 358 acres and nourish 124 acres of saline marsh east of Leewille.	The goal of the project is to create approximately 251 acres of marsh and nourish approximately 266 acres of marsh (517 acres total) with dredged material from Baratania Bay.	The primary objective of this project is to enhance marsh by increasing the utilization of freshwater, nutrients, and sediments provided by the Mississippi River through the Caemaryon Freshwater Diversion Structure.	This project was designed to direct the flow of Mississippl River nuthents and sediment into the deteriorating wetlands in the Breton Sound Bash that are not directly benefited by the Caemanon Freshwater Diversion project. Because of the fallure to secure landings, the project was officially deauthorized by the CWPPRA Task Force in January of 1998. This project was reauthorized on the 14th PPL as BS-12.	Project goals included construction of a rock-lined opening through the rocks at the head of the Jurjevich Canal in order to establish a pathway for freetwater and sediment hin of rand Bay and the adjacent hardshes to create, restore, and enhance wellands in the area. The project was officially deauthorized by the CWPPRA Task Force in July of 1998 because of landinghis issues.	The primary goal of this project was to reverse the trend of interior marsh deterioration in the project area due to salwater intrusion through installation of a freshwater sphon and outfall channel. These strategies would have provided freshwater, nutrients, and sediment to enhance marsh health. The project was officially deauthorized by the CWPPRA Task Force in January of 2003 because of anotheris seues.	A diversion channel will be constructed along the left descending bank of the Mississippi River up stream from Fort St. Philip. The channel will be constructed mainly through shallow open water and will tie into the Mississippi River.	The objective of the project is to enhance the deta-building process occurring due to the crevasse at Fort St. Philip. Sk authorial crevasses are outstuded to their defawater and settinent for assest unently restit bett by the Data Darks on the area by explained traces were constructed to animarie seaffment retention and reduce wave energy in one of the receiving bays.	The goal of this project was to promote utilization of freshwater, sediments, and nuthents from Mississipp River by renewing operation of existing siphon and adding another. The project was deauthorized by the CWIPPRA Task Force in 2013.	The goal of this project was to create approximately 620 acres of new marsh, increase the precent cover of aquatic vegetation, increase the new stallow open water habital, and decrease mean salinty in the project area. This CWP PRA project was transferred to the CARP Program.	The goal of the project was to rentroduce Missesspip Rherwater into adjacent wellands through an uncontrolled diversion with a capacity of approximately 10,000 cts, restoring natural detaic growth and habitals. The project was deauthorized by the CWPPRA Task Fore in 2013.	This project involves dredging sediment to create 398 acres of marsh and restone approximately 32,000 feet of the southern Lake Lery shoreline.	The goal of the project was to create and sustain marsh through a MS River reinfroduction (2,000 cfs maximum siphon) into the open water near Bertrandville. The project was deauthorized by the CWPPRA Task Force in 2013.	This project involves the construction of approximately 65,000 linear feet of terraces (37 acres) with in-stu material to reduce fieth and building and capture suspended sediment. Sediments will be thy diraducially deciped from Lake Levy and purreed via pipeline to create and resone approximately 33 acres of marsh in the project area.	The project area falls within the Cameron-Creade watershell management area, which has been adversely impacted by salwater intrusion and location and water disersion of the Calcasida Mer. The project provises maintenance for the existing 18 miles of feed and the ensign situations which make up the Cameron-Creade Watershed Project.	The project investigated the restoration of the natural hydrology of the Brown Lake area. The project was deauthorized by the CWPPRA Task Force.	The project lobethers are to be-establish the stoneine (Mydologic boundary) between Sweet Less and the Out intracostally witherostally with arrows (GWW) to reduce late untitulity and idlass unchanges, and to half enosion and ring sediment needed to rebuild marsh about the northern and northwestern shoreithers of Sweet Lake. This project includes construction of rock embandments on the GWW to close off the lakes, vegetablin plantings to rockee enosion, and construction of earthen tenaces combined with vegetation plantings in open water areas to promote revegletation.	The project doos list nestone historic water circulation patterns within the Cameron-Creole Watershed. This objective will be accomplished by slowing the rapid momentant of saline waters that enter the watershed from Cakasieu Lake. The project consisted of the installation of two sheeping publis in the lask estories bornwarrant.
Total Budget	\$31,631,908	\$40,851,272	\$21,639,575	\$40,538,484	\$15,671,708	\$38,324,646	\$41,872,785	\$51,145,769	\$24,448,757	\$39,529,163	\$32,284,094	\$30,311,402	\$25,977,605	\$34,880,876	\$23,545,026	\$4,536,000	\$32,862	\$65,747	\$56,476	\$1,178,640	\$3,199,948	\$1,595,677	89,509	\$556,703	\$33,716,987	\$22,578,208	\$22,774,368	\$4,644,371	\$1,097,828	\$3,929,152	\$418,539
Construction Completion	2010	Transferred	2012	2015	2015, Transferred	2016	2015	Transferred	Pending	Pending	Pending	Pending	Pending	Pending	Pending	2002	Deauthorized	Deauthorized	Deauthorized	Deauthorized	2006	Deauthorized	Transferred	Deauthorized	Pending	Deauthorized	Pending	1997, 2011	Deauthorized	2002	1997
Miles of Levee	AïN	NIA	N/A	NIA	N/A	N/A	N/A	NIA	NIA	N/A	N/A	NIA	N/A	AW	NVA	NIA	N/A	NJA.	N/A	NIA	NIA	NIA	NIA	N/A	N/A	NIA	N/A	N/A.	NIA	NVA	N/A
Acres Benefited	229	234	211	438	203	317	502	398	407	302	430	264	444	482	517	802	NIA	NA	NIA	543	267	189	620	640	652	1613	383	2602	916	247	865
Parish	JEFFERSON, PLAQUEMINES	PLAQUEMINES	JEFFERSON	PLAQUEMINES	PLAQUEMINES	JEFFERSON	PLAQUEMINES	PLAQUEMINES	JEFFERSON	PLAQUEMINES, JEFFERSON	LAFOURCHE	PLAQUEMINES	JEFFERSON, LAFOURCHE	LAFOURCHE	PLAQUEMINES, JEFFERSON	PLAQUEMINES	PLAQUEMINES	PLAQUEMINES	PLAQUEMINES	PLAQUEMINES	PLAQUEMINES	PLAQUEMINES	PLAQUEMINES	PLAQUEMINES	PLAQUEMINES	PLAQUEMINES	PLAQUEMINES	CAMERON	CALCASIEU, CAMERON	CAMERON	CAMERON
Federal Sponsor	EPA	NMFS	NRCS	USFWS	NRCS	NMFS	NMFS	NMFS	USFWS	EPA	EPA	USFWS	EPA	NOAA	NRCS	NRCS	NRCS	USACE	NRCS	USACE	USFWS	NRCS	EPA	EPA	USFWS	EPA	USFWS	NRCS	NRCS	NRCS	USFWS
Project Type	MC	Н	SP, MC	TE, SP. MC	MC	M	H	Н	W W	MC	MC	MC	HB	MC	MC	MO	MO	GS.	G	QS SD	SNT	OM, FD	FD	FD	VP, MC	FD	MC, TE	Ħ	MM	SP	Ħ
State Project Number	BA-0039	BA-0040	BA-0041	BA-0042	BA-0047	BA-0048	BA-0068	BA-0076	BA-0125	BA-0164	BA-0171	BA-0173	BA-0193	BA-0194	BA-0195	BS-0003-A	BS-0004-A	BS-0007	88-0009	BS-0010	BS-0011	BS-0012	BS-0013	BS-0015	BS-0016	BS-0018	BS-0024	CS-0004-A	CS-0009	CS-0011-B	CS-0017
l	M ississippi River Sediment Delivery System - Bayou Dupont	Rivering Sand Mining/Scoffeld Island Restoration (Transferred)	South Shore of the Pen Shoreline Protection and Marsh Creation	Lake Hermitage Marsh Creation	West Pointe a la Hache Marsh Creation	Bayou Dupont Marsh and Ridge Creation Project	Grand Liard Marsh and Ridge Restoration	Cheniere Ronquille Barrier Island Restoration (Transferred)	Northwest Turtle Bay Marsh Creation	Bayou Dupont Sediment Delivery- Marsh Creation 3	Caminada Headlands Back Barrier Marsh Creation	Bayou Grande Cheniere Marsh and Ridge Restoration	Carninada Headlands Back Barrier Marsh Creation Increment 2	East Leeville Marsh Creation and Nourishment	Barataria Bay Rim Marsh Creation and Nourishment	Caemaryon Diversion Outfall	White's Ditch Outfall Management (Deauthorized)	Grand Bay Crevasse (Deauthorized)	Upper Oak River Freshwater Siphon (Deauthorized) Phase 1	Delta Building Diversion North of Fort St. Philip (Deauthorized)	Detta Management at Fort St. Philip	White Ditch Resurrection and Outfall Management (Deauthorized)	Bayou Lamoque Freshwater Diversion (Transferred)	Bohemia Mississippi Rwer Reintroduction Project (Deauthorized)	South Lake Lery Shoreline and Marsh Restoration	Bertrandville Siphon (Deauthorized)	Terracing and Marsh Creation South of Big Mar	Cameron-Creole Maintenance	Brown Lake Hydrologic Restoration (Deauthorized)	Sweet Lake/Willow Lake Hydrologic Restoration	Cameron Creole Plugs
CPRA Program	CWPPRA	CWPPRA	CWPPRA	CWPPRA	CWPPRA	CWPPRA	CWPPRA	CWPPRA	CWPPRA	CWPPRA	CWPPRA	CWPPRA	CWPPRA	CWPPRA	CWPPRA	CWPPRA	CWPPRA	CWPPRA	CWPPRA	CWPPRA	CWPPRA	CWPPRA	CWPPRA	CWPPRA	CWPPRA	CWPPRA	CWPPRA	CWPPRA	CWPPRA	CWPPRA	CWPPRA

CDD 0 Droseram	Nome	State Project	Drojoet	Fodoral	Darieh	0 cros	Milos of	Construction	Total Durdant	Dealing Remortation	fiell seines
		Number	Type	Sponsor		Benefited	Levee	Completion	20	unidusea nafota	
CWPPRA	Sabine National Wildlife Refuge Erosion Protection	CS-0018	SP	USFWS	CAMERON	5542	N/A	1995	\$1,602,656	The goal of this project is to protect 13,000 acres of fresh marsh from deferioration associated with the anticipated failure of the existing west levee. The original designances to exceed between The project was reasogned to include 1,000 feet of levee reconstruction and 5.5 miles of rock armor, Vegatann plantings were used to reduce encount from boat raffer.	4
CWPPRA	West Hackberry Vegetative Planting Demonstration	CS-0019	۸۸	NRCS	CAMERON	NIA	NVA	1994	\$256,250	The goal of this demonstration project is to reduce marsh erosion from interior open water wave energy using vegetation plantings consisting of admirins builtures (Schoeinopiectus calfornicus). In addition, wave-stilling hay bale tences were utilized to protect the excellantinus.	4
CWPPRA	East Mud Lake Marsh Management	CS-0020	MM	NRCS	CAMERON	1520	N/A	1996	\$6,036,741	of water control structures and veg	4
CWPPRA	Highway 384 Hydrologic Restoration	CS-0021	MM	NRCS	CAMERON	099	N/A	2000	\$1,586,228	ogradust creativers, ander somer productivers and repeat or expand grees. The project purpose is restore the martal hydrology and the project area and eliminate undestrably high saintiles and severe water fuctuations, tremendously reduce the pobernal or future marsh losses.	4
CWPPRA	Clear M arais Bank Protection	CS-0022	g.	USACE	CALCASIEU	1067	N/A	1997	\$3,696,088	The proteit fact and not the Coulf intercoast Waterway (Optive) approximately 10 mes notives of the coulf intercoast processes. Parish, Louisian. The goal of this project is to serve the rock armored shoreine stabilization by one mile adjacent to the GWWY to prevent continued erosion of the GWWV levies and to prevent the encroachment of the GWWY into the marshes north of the project.	4
CWPPRA	Replace Sabine Refuge Water Control Structures at Headquarters Canal, West Cove Canal, and Hog Island	CS-0023	M	USFWS	CAMERON	953	N/A	2001	\$5,709,299	area This project invoked the replacement of existing structures at Sabine NationalW#diffe Refuge with structures that have substantially greater discharge potential and greater management flexibility.	4
CWPPRA	Perry Ridge Shore Protection	CS-0024	g.	NRCS	CALCASIEU	1203	N/A	1999	\$2,289,090	The project reduces tidal so our, wave action from boats, and other accessive energy inpacts on interior marshes and the possibility of sashwater intrusion by placing rip-rap along low areas on the northern spoil bank of the GWWW from Perry Ridge to Vinton Drahage Canal.	4
CWPPRA	Plowed Terraces Demonstration	CS-0025	NS TNS	NRCS	CAMERON	NA	NVA	2000	\$325,641	This objective of this demonstration project is to develop and demonstrate a non-traditional procedure for constructing earthen terraces in shallow open walke areas. This height earthen terraces served as wave stilling, sedment-trapping structures and provided a medium base for the establishment of emergent vegetation.	4
CWPPRA	Compost Demonstration (Deauthorized)	CS-0026	MC	EPA	CAMERON	NIA	N/A	Deauthorized	\$255,390	This project was authorized to evaluate the effectiveness of using tree timmings as compostable material, using compost amended material area in medium for emergent regardance and determing referent rates of the compost amended materials and tree timmings. The project was officially desuthorized by the CVMP PAT 384 force in January 2002.	4
CWPPRA	Black Bayou Hydrologic Restoration	CS-0027	£	N T MN	CALCASIEU, CAMERON	3594	NA	2003	\$6,170,284	The project goals are to reduce welland loss resulting from hydrologic changes including reduced freshwater inflow, increased margantude and outstand to fail ductulations, increased safindles, there was let exchange and excessive advances was waits, plugs, and culvers designed to allow freshwater from the Gulf intracoastal W all areway (OWW) into the wellands and to reate a hydrologic head that increases festivater retention thre and reduces safawater intrustion.	4
CWPPRA	Sabine Refuge Marsh Creation, Cycles 4-5	CS-0028-4-5	MC	USACE	CAMERON	460	NIA	2015	\$11,838,649	The Sabine Refuge Marsh Creation Oycles 4-5 Project consists of the placement of dredged material from routine mantenance of the Cakasieu River Ship Channel via temporary pipeline into a marsh creation site within the Sabine National Wildine Refuge.	4
CWPPRA	Sabine Refuge Marsh Creation, Cycles 1-3	CS-0028-1	MC	USACE	CAMERON	662	N/A	2002, 2010	\$24,627,399	The Sabine Refuge Marsh Creation Cycles 1-3 Project consists of the placement of dredged material from routine maintenance of the Calcasieu River Ship Channeliva temporary pipeline into a marsh creation site within the Sabine National Wildlife Refuge.	4
CWPPRA	Black Bayou Culverts Hydrologic Restoration	CS-0029	£	NRCS	CALCASIEU	540	N/A	2007	\$16,899,059	This project involved the construction of 10 box culverts (10 ft x 10 ft) with flap gales in the embankment of Highway 384 in Cameron Parist.	4
CWPPRA	GIWW - Perry Ridge West Bank Stabilization	CS-0030	SP	NRCS	CALCASIEU	1132	NIA	2001	\$2,256,216	The project consists of installing rock along the bank of the GIWW to prevent further erosion.	4
CWPPRA	Holly Beach Sand Management	CS-0031	G O	NRCS	CAMERON	330	N/A	2003	\$14,130,233	The purpose of the project is to protect existing coastal wellands by restoring and maintaining the integrity and functionality of the remaining thenepreach indige. This objective was accomplished through beach remounsament, installation of sand fencing, vegetation plantings, and monitoring of the shoreline response. This project was originally authorized on the 9th PLL as the complex project. Holly Beach Project, CS-01.	4
CWPPRA	East Sabine Lake Hydrologic Restoration CU1	CS-0032-CU1	TE, HR	USFWS	CAMERON	281	N/A	2009	\$4,944,870	The object/hes of this project are to protect and restore area marsh, and restore the historical hydrologic regime to the Sabine National Wildlife Refuge. This was to be accomplished using shoreline protection, peraces, vegetation plantings, and water control shortcures to reduce field secure about shoreline ensoin, tutulothy, and satinks the waver, despin of the water control shortcures has been discontinued and the remaining construction funds was used to built and film alterances.	4
CWPPRA	Cameron-Creole Freshwater Introduction	CS-0049	VP, FD	NRCS	CAMERON	473	N/A	Pending	\$14,037,045	The purpose of the project is to restore the function, value and sustainability to approximately 22,247 acres of marsh and open water by improving hydrologic conditions via freshwater input and increasing organic productivity.	4
CWPPRA	Kelso Bayou Marsh Creation and Hydrologic Restoration	CS-0053	MC,SP	NRCS	CAMERON	274	N/A	Transferred	\$17,882,765	The goal of this project is to restore and protect approximately 319 acres of critically important marsh and the numerous functions provided by those acres. The proposed project will restore a portion of the historic meandering channel of Keep Bayou and provide direct protection to Louisanae State Highway 27, the regions only northward humbane evacuation route. The project has been transferred to the Chemier Plant Coastal Protection and Restoration. Authority.	4
CWPPRA	Cameron-Creole Watershed Grand Bayou Marsh Creation	CS-0054	MC	USFWS	CAMERON	534	N/A	Pending	\$22,918,987	Project goals include creating 609 acres of brackish marsh and nourishing 7 acres of brackish marsh with dedicated dredged material inform Caksague Laket b benefit fils and widite resources in the Cameron Prairie National Wildlife Refuge and adjas ent brackish marshes of the Caksague Lake estuary.	ব
CWPPRA	Oyster Bayou Marsh Creation and Terracing	CS-0059	MC, SNT	NMFS	CAMERON	489	NVA	Pending	\$31,031,354	The project consists of creating/nourishing marsh and associated edge habitat and creating terraces in order to reduce wave/wake ension.	4
CWPPRA	Cameron Meadows Marsh Creation and Terracing	9900-80	MC, TE	NMFS	CAMERON	401	NIA	Pending	\$28,935,820	This project invokes the construction of 334 acres of marsh and the reestablishment of Old North Bayou via dredged material from the Coulf of Marko. The project also involves the construction of 35,000 invaries of terraces (18 acres) to reduce wind generated wave febr.	য
CWPPRA	No Name Bayou Marsh Creation and Nourishment	CS-0078	MC	NMFS	CAMERON	497	NVA	Pending	\$28,090,745	The project goal is to create and/or nourish approximately 633 acres of emergent saline marsh within the Cameron-Creaole watershed along the Calcasieu Lake rim using sediment from upland disposal sites of the Calcasieu River.	4
CWPPRA	Oyster Lake Marsh Creation and Nourishment	CS-0079	O M	NOAA	CALCASIEU	991	NA	Pending	\$37,542,910	The primary goals of the project are to create and nountsh approximately 861 acres of safere march. Sediment would be mined from the offstone obsessor and recommended to 25-53 and place of the project area to create approximately 475 acres and nountsh approximately 85 acres of safere march 14af of the createst acres will be nataret with somth contrass-venetation.	4
CWPPRA	Nutria Harvest for Wetland Restoration Demonstration	LA-0003-A	TO	USFWS	COASTWIDE	NA	N/A	2003	\$806,220	This project enables the Louisiana Department of Wildiffe and Fisheries to establish an economic incentive program to trap and control nutria, which are contributing to coastal welfand loss, by repmoting the consumption of nutria meat.	COASTWIDE
CWPPRA	Coastwide Nutria Control Program	LA-0003-B	MM	NRCS	COASTWIDE	14963	NVA	NIA	\$68,738,156	Project goal is to harvest approximately 400,000 nutria tails annually. Damage inflicted by nutria is estimated to be reduced 25 to 49%, and damaged areas to reduce by 25,000 to 49,000 acres.	COASTWIDE
CWPPRA	Floating Marsh Creation Demonstration	LA-0005	ОТ	NRCS	TERREBONNE	NIA	NVA	2006	\$1,080,891	The purpose of this demonstration project was to develop and test unique and previously untested technologies for creating floating marsh made of buoyant vegetated mats or artificial islands.	38
CWPPRA	Shoreline Protection Foundation Improvements Demonstration	LA-0006	SP	USACE	VERMILION	0	N/A	2006	\$1,055,000	The purpose of the project is to investigate the potential to improve the foundation of rock dikes. The project was paired with the South White Lake Shoreine Protection (ME-22) project.	4
CWPPRA	Bioengineered Oyster Reef Demonstration	LA-0008	SP	NMFS	CAMERON	4.5	NVA	2012	\$2,316,692	This project is intended to evaluate the Oysterbreak structure to prevent beach erosion and increase habitat diversity associated with natural cyster reefs.	4
CWPPRA	Sediment Containment System for Marsh Creation Demonstration	LA-0009	MC	NRCS	STCHARLES	AIN	NA	2013	\$2,323,073	This demonstration project utilizes an uncoventional sediment containment system for marsh creation.	3.4
CWPPRA	Non-rock Alternatives to Shoreline Protection Demo	LA-0016	SP	NRCS	IBERIA, JEFFERSON, LAFOURCHE	NIA	N/A	2015	\$6,108,699	Project goals are to demonstrate different alemalives to rock shoreline protection methods by lecting several different products along highly erosive shorelines in areas that are not conductive to construction with rock.	2, 38
CWPPRA	Coastwide Planting	LA-0039	٩>	NRCS	COASTWIDE	779	N/A	NA	\$12,689,725	The goals of this project are to facilitate a consistent and responsive planting effort in coastal Louisana this facility for our project of the control of the coastal country of the coastal coasta	COASTWIDE
CWPPRA	Shoreline Protection, Preservation, and Restoration (SPPR) Panel	LA-0280	as.	NOAA	COASTWIDE	NIA	NIA	NA	\$2,669,829	The proposed demonstration project would stabilize existing shoreline features and attenuate shoreline retreat and potentially enhance interior markets and an accordion platform behind the structure. The goal of this project is to provide a cost effective construction absences on it may for schooling promoters or the structure.	COASTWIDE

## NGOING PROTECTION AND RESTORATION SLIMMARIE

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n n		Number	Type	Sponsor		Benefited	Levee	Completion		in the control of the	0
CWPPRA	Salvinia W eevil Propagation Facility	LA-0284	ТО	USFWS	COASTWIDE	26	N/A	N/A	\$5,052,748	The goal of this project is to operate a weevil propagation facility in Jeanerette, like that previously operated by LSU in Houma, to make weevils available free of charge to landowners in coastal Louisiana	COASTWIDE
CWPPRA	Freshwater Bayou Wetland Protection	ME-0004	0. F	NRCS	VERMILION	14381	NIA	1998	\$9,871,230	The project features include the installation of 10,000 linear feet of rock breakwater (tip-rap) along the west shoreline of Frestwater Bayou Canal, where needed, to protect this shoreline from further encognic, and the installation of gated water control structures on the Acadiana Marina Canal to reduce ponding in the area known as the Frestwater Bayou Wetlands. The project has been extended for another 20 years.	4
CWPPRA	Dewitt-Rollover Vegetative Plantings Demonstration (Deauthorized)	ME-0008	۸۸	NRCS	VERMILLION	102	N/A	1994; Deauthorized	\$92,147	This demonstration project's purpose was to investigate the ability of vegetation plantings of smooth condyrass (Spartina alternifora) to colorize a newly accreted mudfat, thereby establishing a vegetation buffer between the Culf of Mexico and coastal wellands. This project was officially deauthorized by the CWPPRA Task Force in February 1996 because no plants remained.	4
CWPPRA	Cameron Prairie National Wildlife Refuge Shoreline Protection	ME-0009	S.	USFWS	CAMERON	640	NIA	1994	\$1,227,123	This project protects the emergent wetlands of the Cameron Praine National Wildlife Refuge adjacent to the GWWW, enhances the emergent withouts protections approximately 2.5 miles of nock dike parallel to the existing spoil bank, and terminates the encroachment of the GWWW into the refuge.	4
CWPPRA	Humble Canal Hydrologic Restoration	ME-0011	H	NRCS	CAMERON	378	N/A	2003	\$1,530,812	The project consists of replacing the existing Humble Canal structure to restore water management capabilities to the area.	4
CWPPRA	Southwest Shore White Lake Demonstration (Deauthorized)	ME-0012	0. G	NRCS	IBERIA	NA	N/A	1996; Deauthorized	\$41,777	The objective of this demonstration project was to stabilize one mile of the White Lake shoreline and prevent breaching into Deep Lake. The project was inflated to determine If California bulurah (Schoenoplectus calfornicus) is effective at damping high energy wave action. The project was officially deauthorized by the CWPPRA Task Force in October of 1998 and is no longer monitored.	4
CWPPRA	Freshwater Bayou Bank Stabilization	ME-0013	SP	NRCS	VERMILION	511	NVA	1998	\$8,913,357	The goal of this project is to stop erosion along the bank of Freshwater Bayou Caral and to protect the intenor wetlands from saftwater intruston, these about a contrained and waken honded erosion. This was achieved by constructing a rock dike along critical areas of the eastern and western banks of the canal. The project was extended for another 20 years.	4
CWPPRA	Pecan Island Terracing	ME-0014	2	NMFS	VERMILION	437	NVA	2003	\$2,390,984	The goal of this project is to convert areas of open water back to vegetated marsh. Project features included the construction of agather tenses to reduce wave action. Tenses were construction in a daggered gap formation and planted with smooth condgrass foxadria alternativa and california binning. Schadner alternativa and california binning. Schadner california was considered to the california binning of the california binning of the california binning and california binning.	4
CWPPRA	Freshwater Introduction South of Highway 82	ME-0016	壬	USFWS	IBERIA	296	N/A	2006	\$6,342,505	repurpose of the project was to move freshwater from White Lake across LA Hw 82 to target marshes and marsh restoration frrough earthen frances.	4
CWPPRA	Little Pecan Bayou Hydrologic Restoration (Deauthorized)	ME-0017	£	NRCS	CAMERON	144	NIA	Deauthorized	\$1,303,713	The purpose of the project was to introduce fresh water into brackish marsh habitat south of La. Highway 82 through use of water control structures and comeyance channels. The project was subsequently deauthorized by the CWPPRA Task Force.	4
CWPPRA	Rockefeller Refuge Gulf Shoreline Stabilization	ME-0018	SP	NMFS	CAMERON	863	N/A	Pending	\$26,776,463	The purpose of the project is to construct a continuous near shore breakwater along the Gulf of Mexico shoreline, approximately 50,891 feet from Beach Prong to Joseph Harbor.	4
CWPPRA	Grand-White Lakes Landbridge Protection	ME-0019	SP	USFWS	CAMERON	213	NVA	2004	\$3,536,830	The purpose of the project was to prevent the coalesence of Grand and White Lakes through the installation of 11,000 feet of hard shorleine stabilization and construction of terraces.	4
CWPPRA	South Grand Chenier Hydrologic Restoration	ME-0020	HR, MC	USFWS	VERMILION	440	NIA	Pending	\$23,873,346	The objective of this project is a reduction in salinity in target marches via fresh water introduction from Upper Mud Lake via the Dr. Milen Chanal and cuberts under Hwy R2. Restoration of 412, acres of brackish mash from shallow open water and nourishment of 51 acres of mash from shallow open water and nourishment of 51 acres of mash (part 453 acres) in two cells (176 and 277 acres) via 1.55 M cubic yards of dredged material from a Oulf of Mexico borrow sile.	4
CWPPRA	Grand Lake Shoreline Protection, Tebo Point	ME-0021	S. P.	NRCS	CAMERON	495	NIA	Pending	\$11,305,616	This project invokes the construction of a rock dike to protect the south shoreine of Grand Lake from Catifat Lake to Tebo Point and perform bing-term Cotal on this dike as well as a separate portion Superior Canal to Catifat Lake (constructed using CAP 2007 funds). Unds)	4
CWPPRA	South White Lake Shoreline Protection	ME-0022	SP	USACE	VERMILION	844	NVA	2006	\$19,673,961	This project involved the construction of a rock dike along the south shoreline of White Lake to reduce erosion and maintain shoreline integrity.	4
CWPPRA	South Pecan Island Freshwater Introduction (Deauthorized)	ME-0023	FD	NMFS	CAMERON	86	N/A	Deauthorized	\$4,438,693	The purpose of the project was to introduce freshwater from the takes subbasin north, under Hwy, 82 and into the lakes subbasin south of Hwy. 82. The project was officially deauthorized by the CWPPRA Task Force in January of 2011.	4
CWPPRA	Southwest Louisiana Gulf Shoreline Nourishment and Protection	ME-0024	ОТ	USACE	IBERIA	888	NIA	Pending/On Hold	\$17,144,234	The goal of the project is to nourish 47,300 linear feat of gulf shoreline with sediment between Dewitt Canal and Big Constance ELake, and treate a protominately 47 are need in masks platform, mudit all and isallow water, extending approximately 384 feet seaward. The project is on notel until the Phase I CSA translate of mailzed with the USA-CE.	4
CWPPRA	Freshwater Bayou Marsh Creation	ME-0031	MC	NRCS	VERMILION	401	N/A	Pending	\$26,756,528	The purpose of the project is to create and/or nourish about 400 acres of marsh near Freshwater Bayou north of intersection with Humble Canal	4
CWPPRA	South Grand Chenier Marsh Creation - Baker Tract	ME-0032	MC	NRCS	CAMERON	393	NVA	Pending	\$26,691,833	The purpose of this project is to create new wetland habitat, restore degraded marsh, and reduce wave erosinn. Material dredged from the Out of water own the united to create and northes approximately 4.73 areas for marsh. Releding better with be degraded and approximately 11.756 linear feet off tidal crease will be constructed by tracking marsh buggles on the marsh patform for estuarthe fishelies access. Smooth configures plugs will be planted on 20-foot centers throughout the area (foal 49,268 plants).	4
CWPPRA	West Bay Sediment Diversion	MR-0003	SD	USACE	PLAQUEMINES	9831	NVA	2003	\$50,863,503	The project consists of a council of the table scaled uncomfoled develop of freshwater and sedments from the Missesspip Hever. The diversion channel was designed to be constructed in two phases. (ch indicated construction of an interim channel to water the account modale a discharge of 20,000 close the elect per second (cits) at the 50% duration stages in the elever and marsh been optimized and city and construction of an interim develop marsh been primer and city and city and an interim channel to a second city and a second ci	2
CWPPRA	Channel Armor Gap Crevasse	MR-0006	SD	USACE	PLAQUEMINES	2097	N/A	1997	\$888,985	The project consists of deepening the invert of the existing 150 foot wide gap in the Mississippi River channel bank armor. The existing invertives the 4.0 feet of the open water area beyond the bank were entanged. Approximately 125,000 cubic sprace of material were excavated from the outfall channel and cast adjacent to the channel in a manner conflictive to bringshinerit.	1
CWPPRA	Pass-a-Loutre Orevasse (Deauthorized)	MR-0007	gs	USACE	PLAQUEMINES	1043	N/A	Deauthorized	\$119,835	The objective of this projectivas to create and restore marsh in the Mississippi River Deta. This was to be accomplished through construction of a creases on the Bird descending basis of the Was officially deauthorized by the CWPPRA Task force in July of 1998 due to high costs attributed to relocating underground utilities in the area.	₹
CWPPRA	Beneficial Use of Hopper Dredged Material Demonstration (Deauthorized)	MR-0008	MO	USACE	PLAQUEMINES	NIA	NVA	Deauthorized	\$58,309	The goal of this project was to utilize dredged material from a hopper dredge to create emergent vegetated mash in an area that is ournafily a slawlow oper-water poind. Due to design problems, the project was officially deauthorized by the CWPPRA Task Force in Nowember of 2000.	2
CWPPRA	Detta Wide Crevasses	MR-0009	SD	NMFS	PLAQUEMINES	2386	NIA	1999	\$4,728,318	The objective of this project is to promote the formation of emergent freshwater and intermediate marsh in shallow, open water areas of the Passe-Loute wholle Management Area and the Deta Nationa Whollie Refuge by ether cheaming existing splays or creating new ones.	-
CWPPRA	Dustpan Maintenance Dredging Operations for Marsh Creation in the Mississippi Rwer Defta Demonstration	MR-0010	MQ	USACE	PLAQUEMINES	N/A	NVA	2002	\$1,909,020	This project demonstrated the beneficial uses of dredged material from routine mannement e of the Mississappi River Navigation Channel by using a dustgen hydraniik dredget to create and restore adjac ent marsh. Approximately 40 acres of deteriorated marsh that had commented to shallow open water were restored with approximately 222,000 cubic yards of dredged material.	2
CWPPRA	Periodic Introduction of Sediment and Nutrients at Selected Diversion Sites Demonstration (Deauthorized)	MR-0011	FD	USACE	ST BERNARD	N/A	NIA	Deauthorized	\$83,556	This demonstration project was intended to show the effectiveness of using a hydraulic pipeline dredge to provide increased sediment finough a diversion stucture or sighton. Monitoring of the project will determine not only the characteristics of the sediment input concentrations, but also the subsequent effects in the outfall area. The project was subsequently deauthorized by the CWVPPRA Task Force.	-
CWPPRA	Mississippi River Sediment Trap (Deauthorized)	MR-0012	МС	USACE	PLAQUEMINES	1190	NVA	Deauthorized	\$354,790	This project was reauthorized on the 12th PPL to create emergent wetlands through the beneficial uses of material dredged from a septiment of the control of	1, 2
CWPPRA	Benneys Bay Diversion (Deauthorized)	MR-0013	OS .	USACE	PLAQUEMINES	4580	NVA	Deauthorized	\$976,580	The objective of the project was to create vegateder wetlands in shallow open water areas in Benneys Bay. The project would divert asserting to rease, nourish, and maintain approximately 16.982 acres of fresh to intermediate marsh over the 20-year project file. The project was deathunded by the CVF PRA. Task Force in 2013.	<u>-</u>

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CPKA Program	Name	State Project Number	Type	Sponsor	Parish	Acres Benefited	Miles of Levee	Completion	Total Budget	Project Description	Planning Unit
CWPPRA	Spanish Pass Diversion (Deauthorized)	MR-0014	OS	USACE	PLAQUEMINES	433	N/A	Deauthorized	\$310,151	The goal of this project was to create emergent marsh by diventing Mississippi River water and sedment from Grand Pass into open water receiving areas. The project was deauthorized by the CMPPRA Task Force in 2013.	2
CWPPRA	Venice Ponds Marsh Creation and Crevasses (Inactive)	MR-0015	O W	EPA	PLAQUEMINES	511	N/A	Inactive	\$23,442,176	The goals of the project are to create, maintain, nourish, and replenish existing deteriorating wetlands through dedic ared dresigning, hydrologic resultation, creases construction, and crevasse enhancement. The project was designated as inactive by the CWPPPRA. Tese Force and 2012.	2
CWPPRA	Fritchie Marsh Restoration	PO-0006	또	NRCS	STTAMMANY	1040	N/A	2001	\$2,201,674	near, once it can can be included to a cause of welland loss in the area and to improve habitat for wildlife and falleness by increasing the project is to achieve make into the marsh and managing the out all.	-
CWPPRA	Violet Freshwater Distribution (Deauthorized)	PO-0009-A	£	NRCS	ST BERNARD	247	N/A	Deauthorized	\$128,626	The oblesse of the outsil management just was no objective the sea of frestwards and sealment larguple by the resting sphoris by management frow though shallow when we see that we would be accomplished by expering the sent affecting the would be accomplished by reducing channelsed flow and routing the developed may across marsines of trunging shallow where areas instead of through largue value areas instead of through largue value. This project was officially deauthorized by the CWPPRA seek zone in 70th teacure of Indian American and another than the CWPPRA.	-
CWPPRA	Bayou Sauvage National Wildfre Refuge Hydrologic Restoration, Phase 1	PO-0016	¥	USFWS	ORLEANS	3800	N/A	1996	\$1,680,193	The Lake Portchartain Hurs, an Probedion leves isolates units 3 and 4 of the Bayou Sauvage Wildiffe Refuge from the surrounding mass to originar and establishes a large freshwater impoundment. This project established a means for removing the excess water during the sorting and surriner.	-
CWPPRA	Bayou LaBranche Wetland Creation	PO-0017	MC	USACE	ST CHARLES	487	N/A	1994	\$3,934,000	The project involved dredging sediments from Lake Pontchartrain to create vegetated wetlands in an area roughly bounded by I-10, Lake Pontchartrain, Bayou Labranche.	-
CWPPRA	Bayou Sauvage National Wildlife Refuge Hydrologic Restoration, Phase 2	PO-0018	Ħ	USFWS	ORLEANS	1280	NVA	1997	\$1,692,552	The construction of U.S. Highway 90, canals, railroad lines, and Lake Ponctchartrain hurris are protection levees has impounded the irrastin this dropiet area. Prode freatures consist of two 38-trich irrunss, which operate to maintain water levels at U.S feet above or below marsh elevation to normole vesetate crowth in the noticet area.	-
CWPPRA	Mississippi River Gulf Outlet (MRGO) Disposal Area Marsh Protection	PO-0019	MM	USACE	ST BERNARD	755	N/A	1999	\$318,445	The objective of this project is to preserve vegetated wetlands by repaining the lateral and rear dikes of the Mississippi River Oulf Outlet (MRCO) disposal areas Repetation 2.8000 linear-lood dise, in conjunction with missialization of missialization with a single 40-inch pipe, were used to control and divert water flow to prevent the perched mastres from draining.	-
CWPPRA	Red M ud Demonstration (Deauthorized)	PO-0020	O M	EPA	ST JOHN THE BAPTIST	NVA	NA	Deauthorized	\$520,129	This project was authorized to determine whether red mud, produced as a by-product of removing alumina from bauxite, could be tulked as marsh-reation material in combination with compost and marsh sediment. Construction of experimental units was inflated in 1997, however, due to unexpected problems with fill material, liners, and contaminants in the water source, the project was officially established by the CWPPRAT sak force in Autorst 2001.	-
CWPPRA	Eden Isles East Marsh Restoration (Deauthorized)	PO-0021	£	NMFS	CAMERON	1453	N/A	Deauthorized	\$39,025	The project intended to restore 2,536 acres of drained fastlands by actively managing water levels to maximize mash creation. There was a change in annowane in the project larea during the parming phase of this project. Consequently, the project was officeably deauthorized by the CWPEPA Task Creat in January 1998.	-
CWPPRA	Bayou Chevee Shoreline Protection	PO-0022	SP	USACE	ORLEANS	212	N/A	2001	\$2,589,403	The project consists of constructing a 5,000-foot earthen, erodible dike to contain dredged material from Lake Pontchartrain. The project created about 150 acres of marsh.	-
CWPPRA	Hopedale Hydrologic Restoration	PO-0024	¥	NMFS	ST BERNARD	106	N/A	2005	\$2,281,287	This project is designed to abate ster-specific wetland loss by replacing collapsed cuberts installed in the 1950s near Yschoskey, Loudistan Replacement of these structures would allow more rapid chainage of the area, improve fisheries access, reduce wetland loss rakes, and project approximately 2008 acres of marsh.	-
CWPPRA	Bayou Bienvenue Pump Station Diversion and Terracing (Deauthorized)	PO-0025	MC	NMFS	TERREBONNE	442	N/A	Deauthorized	\$212,152	This project intended to combine the use of existing pump stations with the construction of a diversion channel, water control structures, and earthen tenraces planted with smooth congrass (Spartina attentions). This would force the flow of freshwater and nutrients through a detentionated marrah area to abade size-specific marsh loss. The project was officially deauthorized by the CWPPRA Task Force in Agin 2002 because construction was determined to be too costly.	1
CWPPRA	Opportunistic Use of the Bonnet Carre Spilway (Deauthorzed)	PO-0026	9	USACE	PLAQUEMINES	177	NVA	Deauthorized	\$83,932	This project intended to abate high salmly stress on the vagidated wetlands surrounding Lake Pontchartrain. This objective was to be accomplished through the removal of prior from the Bornet Care? Delayway structure during high from yeldors in the Mississipp Revt to allow no more than 4,000 cubic freat lore second of water to flow from the fiver into Lake Pontchartrain. This project was officially desuthorized by the CWPPRA Task Force in October of 2007 due to uncertainly of benefits and lack of landowner support.	-
CWPPRA	Chandeleur Islands Marsh Restoration	PO-0027	VP	NMFS	ST BERNARD	88	W.A	2001	\$839,927	The objective of this project was to accelerate the recovery period of barrier island areas overwashed by Humtrane Georges in 1998 through vegatation plantings. The overwash areas, which encompass 564 acres, are tozated at 22 sites along the Chandeleur Sound site of the island chain and were planted with smooth congrass (Spartina alemiflion).	1
CWPPRA	LaBranche Wetlands Terracing, Planting, and Shoreline Protection (Deauthorzed)	PO-0028	VP	NMFS	ST CHARLES	489	N/A	Deauthorized	\$306,836	Dosabol abong Lake Pointchartrain, the project inherided to reduce emergent marsh loss along the shoreline by restoring and creating 489 acres through marsh terracting, shoreline protection, and vegetation planting. This project was officially deauthorized by the CWEPPA Task Force in October 2007.	1
CWPPRA	Lake Borgne Shoreline Protection	PO-0030	SP	EPA	ST BERNARD	229	WA	2008	\$28,908,775	The goal of this project is to mantain the integrity of the narrow strip of marsh that separates Lake Borgne from the Mississippi Fiker Gulf Outlet (MRGO). This land helps protect the communities of Shell Beach, Yschoskey, and Hopedale from direct exposure to lake ware energy and storm surges. The goal was accomplished through construction of a continuous nearshore rock breakwater.	-
CWPPRA	Lake Borgne and MRGO Shoreline Protection (Deauthorized)	PO-0032	g.	USACE	ST BERNARD	63	N/A	Deauthorized	\$1,089,193	The objective of this project was to preserve the marsh between Lake Borgne and the Mississippl River Gulf Outlet (MROO) by constructing a nock dike along the Lake Borgne shoreline and the northern bank or the MROO. The Lake Borgne segment of this project was constructed by the USACE with funds from the 3th supplemental, and the remaining portion of the project was clearthorized by the OWPERA Task Force.	-
CWPPRA	Goose Point/Point Platte Marsh Creation	PO-0033	MC	USFWS	ST TAMMANY	436	NVA	2009	\$15,979,442	The goal of this project is to create about 437 acres of marsh and nourish about 114 acres of degraded marsh along the northern shoreline of Lake Pontchartrain.	-
CWPPRA	A ligator Bend M arsh Restoration and Shoreline Protection	PO-0034	TE, VP. SP	NRCS	ORLEANS	121	WA	Pending	\$29,716,052	The goal of this project is to provide shoreline protection in Lake Borgne, starting at Alligator Point, using rock dikes and vegetable plantings.	1
CWPPRA	LaBranche East Marsh Creation	PO-0075	MC	NRCS	ST CHARLES	715	NVA	Pending	\$33,555,033	Project features consist of the creation of 729 acres of marsh and the nourishment of 202 acres of existing marsh using dedicated dredging from Lake Pontchartrain.	1
CWPPRA	Bayou Bonfouca Marsh Creation	PO-0104	MC	USFWS	ST TAMMANY	424	N/A	Pending	\$29,273,984	The primary goal of the project is to create 533 acres and nourish 42 acres of low salinity brackish marsh in open water areas adjacent to Bayou Bonfouca with sediment pumped from Lake Pontchartrain.	1
CWPPRA	LaBranche Central Marsh Creation	PO-0133	MC	NRCS	ST CHARLES	731	N/A	Pending	\$43,409,208	Project features include the creation of 762 acres of marsh and the nourishment of 240 acres of existing marsh using dedicated dredging from Lake Pontchartain.	1
CWPPRA	Shell Beach South Marsh Creation	PO-0168	MC	EPA	ST BERNARD	634	NVA	Pending	\$27,946,159	The project would create and/or nour/sh 634 acres (ac) of emergent brackish marsh to stabilize the landform seperating Lake Borgne from the MRGO. 343 ac of new marsh would be created and 291 ac nourished using fill material from Lake Borgne.	-
CWPPRA	New Orleans Landbridge Shoreline Stabilization and Marsh Creation	PO-0169	MC, BS	USFWS	ORLEANS	271	N/A	Pending	\$17,778,172	The project goal is to restore and enhance 271 acres of brackish marsh (169 acres marsh creation and 102 acres nourishment) and to enhance 15,340 linear feet of shoreline through the construction of an earthen shoreline berm.	-
CWPPRA	Fritchie Marsh Creation and Terracing	PO-0173	MC	NOAA	STTAMMANY	386	WA	Pending	\$27,020,763	The project goal is to create and/or nourish approximately 340 acres of emergent trackish marsh and create 36 610 feet of earthen terraces (56 emergent acres) in the Fitchie M arsh area between the city of Sideli and the Rigoleis using sediment from Lake Ponticharian.	Ţ
CWPPRA	Bayou La Loutre Ridge Restoration and Marsh Creation	PO-0178	MC	NRCS	ST BERNARD	167	W.A	NIA	\$31,012,138	The goal of the project is to create an approximate 31,7 acre ridge feature with material from bucket dredging Bayou La Loutre. Additionally dredged material from Lake Borgne will create 163 acres of marsh and nourish approx. 258 acres along Lena Lagoon	-
CWPPRA	St. Catherine Island Marsh Creation and Shoreline Protection	PO-0179	MC	USFWS	ORLEANS	219	N/A	N/A	\$25,324,715	The primary goals of this project are to protect a portion of the Lake Pointcharfrain shoreline and restoreprotect interior marsh habitat with the placement of dredged material	2
CWPPRA	Grand Bayou Hydrologic Restoration (Deauthorized)	TE-0010	£	USFWS	LAFOURCHE	199	Ψ/N	Deauthorized	\$1,452,357	The obletie for the profet was to mantain enregard welfands in this care by proving supplemental fersawate, ruthents, and seafment from the Attributed stream of the offirm castal will are was provided teachers included a water control structure on Bayour points and of the supplemental stream of the prefet teachers in the prefet that bear dealthritted by the CMPPRA, Task force.	3.8
CWPPRA	Falgout Canal Planting Demonstration	TE-0017	۷P	NRCS	TERREBONNE	N/A	N/A	1996	\$206,522	For this demonstration project, smooth cordgrass (Spartina attentions) suited to the salinity and habitat type of the Falgout Canal area was planted along the canal and protected by six types of wave-stilling devices.	3A
CWPPRA	Timbalier Island Planting Demonstration	TE-0018	٩	NRCS	TERREBONNE	N/A	N/A	1996	\$300,492	For this demonstration project, approximately 7,390 linear feet of sand fences were installed and vegetation suited to the salinity and habital type of Timbalier island was planted in several areas on the island to trap sand and buffer wind and wave energy.	3.4

## NGOING PROTECTION AND RESTORATION SLIMMARIE

CPRA Program	Name	State Project Number	Project Type	Federal Sponsor	Parish	Acres Benefited	Miles of Levee	Construction Completion	Total Budget	Project Description	Planning Unit
CWPPRA	Lower Bayou LaCache Hydrologic Restoration (Deauthorized)	TE-0019	MM	NMFS	TERREBONNE	NIA	NIA	Deauthorized	\$99,625	The project would have reduced marsh loss rates and irreproved fish and wildlife habitat quality by restoring natural north-south water sex hange wild subarin washer bodies and by reducing find throught he unmenous notagele carast in the area. Because of problems with landights and navigation, the project was officielly deauthorized by the CVMPPRAT Task Force in 1986.	3.8
CWPPRA	Isles Demieres Restoration E ast Island	TE-0020	Ħ	EPA	TERREBONNE	449	NIA	1999	\$8,762,416	The project objective is to restore the coastal dunes and wetlands of the Eastern Islas Demieras barrier island chain. Approximately 3.9 million cubic, yants of sand were dredged from Lake Peto and used to build a retaining dune which was then hydraulically filed to create an elevated marsh platform. Sand fences and vegetation were also installed to stabilize the sand and minimize wind-driven transport.	3A
CWPPRA	Point Au Fer Canal Plugs	TE-0022	VP, MC	NMFS	TERREBONNE	375	N/A	1997	\$5,544,367	This project is intended to reduce saltwater intrusion into the Point au Fer marshes without reducing freshwater back flooding from the Archafakay after. Phase of this project, completed in 1997, involved the plugging of two major natural gasfoll prelime canals on the eastern that of the island. Under Phase II, a rock shoreine stabilization structure was constructed in 2000 along a thin street of beach seasaration the cliff of which from the Monto Canal.	88
CWPPRA	West Belle Pass Headland Restoration	TE-0023	S.	USACE	LAFOURCHE	474	N/A	1998	\$6,826,754	The project reduces the encroad-hment of Tinrbaler Bay into the marshes on the west side or Bayou Lafourche with the use of bededraded trademals to rotate 184 acres of marsh on the west side of Belle Pass. A water control structure was placed in the Evans, Canal, and pluss on other canals.	3A
CWPPRA	Isles Demieres Restoration Trinity Island	TE-0024	BH, MC	EPA	TERREBONNE	776	NVA	1999	\$10,774,974	The project objectives are to restore the Trinity Island (dunes and marsh) wetlands of the Isles Demieres chain, enhance the physical intentity of the Island, and profect the lower Terrebonne estuary.	3A
CWPPRA	East Timballer Island Sediment Restoration	TE-0025	盂	NMFS	TERREBONNE	1913	NIA	2001	\$3,720,721	The objective of this project is to strengthen and thus increase the fire expectancy of East Turbailer Island. The project called for the riminor bot 2.7 million cubic years of sediment and placement of the material in three embayments abong the landward shoreline of East Turbailer Island. The project also included serial seeding of the dune platform, installation of sand fencing, and dune vegetation blantings.	3.8
CWPPRA	Lake Chapeau Sediment Input and Hydrologic Restoration, Point Au Fer Island	TE-0026	MC	NMFS	TERREBONNE	609	NVA	1999	\$6,810,133	The objectives of this project are to redone the marshes weat of Lake Chapeau, re-establish the hydroguc separation of the Locust Beyou and Alligator Beyou watersheds, and re-establish the natural drainage patients within the Lake Chapeau area. To accomplish this material dredged from Athyraliativa Bey was used to reade mark, oil field access canals were plugged, and spoil banks were apapered. An earliand Beyon Cubic yards of material were hydraulically deceged from Athyraliativa Bey and spread to a thickness of appropriate Area (19 care of 19 cares).	38
CWPPRA	Whiskey Island Restoration	TE-0027	вн, мс	EPA	TERREBONNE	657	N/A	2000	\$7,106,586	The project realed and restored beaches and back island marshes on Whiskey island. The project created 523 acres of back island marsh and right in the breach at Coupe housele (13 acres). The fails is upstaint a planting amont conditions (sparting alemning on the bay show as complete in July 1995 and additions repetation seeding planting was carried out in Spring 2000.	3A
CWPPRA	Brady Canal Hydrologic Restoration	TE-0028	또	NRCS	TERREBONNE	297	NVA	2000	\$7,593,752	The objective of the project is to maintain the fragile, highly-fragmented transitional marshes between the fresh and estuarine zones by enhancing freshwater, sediment, and nutrient delivery into the area.	38
CWPPRA	Raccoon Island Breakwaters Demonstration	TE-0029	H	NRCS	TERREBONNE	NA	N/A	1997	\$1,795,388	n nisprujet, pruteus inteneriya teutrioshed ubeathes and wellands of Reaccourtisand and prutet, toakk danner and mannand maistres With sik segmented breakwaters.	3.8
CWPPRA	East Timbalier Island Sediment Restoration	TE-0030	盂	NMFS	TERREBONNE	215	NVA	2000	\$7,600,150	The project goal is to strengthen and increase the life expectancy of East Timbaler island by placing dredged material along its tandward stories. Additional rock has been placed on the existing breakwater in front of the Island, which will help protect the created area from excisin.	3.8
CWPPRA	Flotant Marsh Fencing Demonstration (Deauthorized)	TE-0031	g S	NRCS	TERREBONNE	N/A	N/A	Deauthorized	\$106,960	The purpose of this demonstration project was to determine the effect/beness of different fencing techniques used to conserve and resone floating mastres. There was difficulty in locating an appropriate site for demonstration and in addressing enphreering constraints. The restoration techniques that were originally suggested for this project were not feasible. The project was officially deauthorized by the CWPPRAT Sak Fore in 2001;	3A
CWPPRA	North Lake Boudreaux Basin Freshwater Introduction and Hydrologic Management	TE-0032-A	FD	USFWS	TERREBONNE	603	NVA	Pending	\$26,875,959	The project aims to introduce freshwater from the HNC through an enlarged Bayou Peton channel across Bayou Grand Callou and through a gated channel.	3A
CWPPRA	Bayou Boeuf Pump Station (Deauthorized)	TE-0033	生	EPA	TERREBONNE	NiA	N/A	Deauthorized	\$3,452	The purpose of this project was to link the wetlands protection/restoration objectives of the CMFPRA with flood protection and navigation needs generally covered by WRDA. The project components consisted of implementing a long-term water management stategy from the Verett Bash and evaluating a long-term her water delivery strategy from Atchadalaya River to Tereborne wetlands. The minist was officially maniformed his How CMPPRA. Task Enrie in 1998.	3A
CWPPRA	Penchant Basin Natural Resources Plan, Increment 1	TE-0034	FD, HR,	NRCS	TERREBONNE	675	N/A	2011	\$17,628,814	The objective of the project is to dwert freshwater flow from north-western to south-eastern sub project areas coupled with protection measures to reduce intendation of fracile marsh areas in overall Penchant Basin in Terretorne Parish.	38
CWPPRA	M arsh Creation East of the Atchafalaya River - Avoca Island (Deauthorized)	TE-0035	MC	USACE	STMARY	434	N/A	Deauthorized	698'99\$	The project consisted of the beneficial use of dredged material from the "Crew Boat Chute" and placing it in the Avoca Island area. Although the project would have benefied 454 acres at a cost of \$6,438,400, the cost of the project was estimated to be considerably higher than originally planned, making it economically unjustifiable. The project was officially deauthorized by the CWPPRA Task Force in 1999.	38
CWPPRA	Thin Mat Floating Marsh Enhancement Demonstration	TE-0036	MC	NRCS	TERREBONNE	N/A	N/A	2000	\$538,101	The objective of this project is to induce the development of thick-mat, continuousy floating mash from a thin-mat flotant using various combinations of treatments including fertilization, herbylony reduction, and transplanting healthy, thick-mat marsh plugs into the thin-mat flotant. Project monitioning is infended to determine the effects of water movement and sediment availability on these marshes.	38
CWPPRA	New Cut Dune and Marsh Restoration	TE-0037	BH, MC	EPA	TERREBONNE	386	NIA	2008	\$12,869,325	The objective of this project was to close the breach between East and Trinity Islands that was originally created by Hurirs are Carmen (1974) and subsequently enlarged by Hurirs are Usan (1955) and Hurirs are Andrew (1992). The project involved the creation of barrier island outness and marsh habitat and lengthening the structural integrity of the eastern Isles Demieres by restoring the litoral drift and adding sediment into the near-stone system.	3.8
CWPPRA	South Lake Decade Freshwater Introduction	TE-0039	SP	NRCS	TERREBONNE	202	NIA	2011	\$5,223,806	This project involves the construction of a water control structure in the southern bank of Lake DeCade. The structure increases the amount of histaleta River water and softment induced into it meraties south of the lake. In addition, shoretine protection was miniplemented adjacent to the proposed structure, and a wer in Lapeprouse Bayou was removed.	3.8
CWPPRA	Timballer Island Dune and M arsh Restoration	TE-0040	BH, MC	EPA	TERREBONNE	663	NIA	2004	\$16,662,199	Tribater Island is ingrating rapidy to the west/northwest, therefore, the western end of Trinbater Island is undergoing lateral migration by sptbullog processes after experse of enclose and along the asstern end of Trinbater Island is undergoing the eastern end of Trinbater Island by the direct creation of beet, duries, and missh.	3A
CWPPRA	M andalay Bank Protection Demonstration	TE-0041	e e	USFWS	TERREBONNE	N/A	N/A	2003	\$1,732,498	This demonstration project is intended to develop new techniques for protecting and restoring organic soils, which can be easily eroded. Infair lasmics and beakfroughts were teached to determine the cost-efficientess of demonstrated approaches. The project allows of a controllable approaches. The project allows of a controllable approaches, the project allows of a controllable approaches.	3A, 3B
CWPPRA	M ove Existing Atchafalaya W ater to Central Terrebonne (Transferred)	TE-0042	壬	USFWS	STMARY	NA	N/A	Transferred	NA	This project is intended to reduce marsh loss through the improved distribution of excess freshwater seasonally available in the Gulf midracoastal abserva; (ARVIV). The project will benefit destinctain marshes in central and/or eastern portions of the Terrebonne Basin. This project was transferred to the LCA program.	3A
CWPPRA	GIWW Bank Restoration of Critical Areas in Terrebonne	TE-0043	AS .	NRCS	TERREBONNE	345	NVA	2014	\$13,022,245	The project objective is to restore critical lengths of deteriorated channel banks and stabilize larmor selected critical lengths of deteriorated channel banks with and shoulder stabilization materials. A portion of this project was constructed using CAP 2007 funds and the remainder of the project was constructed under CWPPRA.	3.8
CWPPRA	North Lake Mechant Landbridge Restoration	TE-0044	SP, MC	USFWS	TERREBONNE	604	NIA	2009	\$39,004,428	The project is intended to help maintain and restore the landbridge (Lake Mechant north shoreline and the Small Bayou La Pointe PRIgos), which provides a hydrologic barner between brackets and low-salinfy habitats. Project features include marsh creation, the planting of smooth cordgrass (Spatina alternifora) on the shoreline, the construction of various plugs, and repairing a fixed-crest weir short Bayou Raccourci.	3A
CWPPRA	Terrebonne Bay Shore Protection Demonstration	TE-0045	SP	USFWS	TERREBONNE	0	NVA	2007	\$2,718,768	This project is intended to evaluate several different shoreline protection methods, including concrete mats, artificial oyster reefs and A-Jacks.	3A
CWPPRA	West Lake Boudreaux Shoreline Protection and Marsh Creation	TE-0046	SP	USFWS	TERREBONNE	145	NVA	2008	\$17,893,813	The purpose of their project is to create and nountal about 200 acres of marsh along the western shoreline of Lake Boudreaux to protect the shoreline from ensoion due to direct exposure to take wave energy and to restore interior marsh lost to subsidence and salwater intuison.	3A
CWPPRA	Ship Shoal: Whiskey West Flank Restoration (Inactive)	TE-0047	Н	EPA	TERREBONNE	500	NVA	Inactive	\$1,599,810	The objective of the project is to reduild dures and a march platform on the west flank of Whitekey leand through the deposition of decigied meeting intensity intensity project would provide a barrier to reduce were and take integry, threeby protecting maintand storation continued proson. The project west designated as incalled by the cVM PRAF force in 2013.	3A
CWPPRA	Raccoon Island Shoreline Protection and Marsh Creation	TE-0048	BH, MC	NRCS	TERREBONNE	16	NVA	2007, 2013	\$23,163,393	The purpose of the project is to protect the existing southern shoreline of the island by constructing 8 more rock breakwaters. Phase B utilized dredged sediment from the Out of Mexico to create marsh on the land side of the island.	3.8

Teatures include a small diversion from Bayou Shaffer into Avoca Lake paired with marsh creation through dedicated dreading.	SA SA	der to increase the all of 2009. Project didal ponds, and 13,000	s conducive to the	es along the fringes of 3A rear project life.		el of		36																			
the barrier Island can migrate in order to incre	the barrier island can migrate in order to incre	construction was complete in the fall of zoos. sar feet of tidal creeks, three 1-acre tidal ponds	ge habitat and to promote conditions conducive the wave erosion of existing marshes along the marsh and open water over the 20-year project		iliding a large portion of the beach, dune, and I rebuilt.	This profest throbes the restablishment of the Vets Belle headland by rebund; a large portion of the beach, dune, and back barn marsh that once existed. Approximately 3,300 feet of beach and dune were rebuit.  The goal of this project is to test several technologies or products to enhance the establishment and growth of key barner island and sat marsh vegetation. 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The project while restablish instoric throughous and as safety conditions by reducing the antificial influsion of our manner waters with the dependent will restablish instoric throughous the storic and safety conditions by reducing the antificial influsion of our manner waters whe conditions may be according to the central Tenebrome marshes while enhancing the influence of the Africhalasys River waters into the area value in the central Tenebrome marshes while enhancing the influence of the Africhalasys River waters into the area volume marshes while enhancing the influence of the Africhalasys River waters into the area volumes are of those throw water bodies; 2) increase the eleventy retreat water, sediments and nourish sales marsh is allabour events and nourish sales are official because a level and the condition of alerace field.  Froject pools are to crease a 555 acres of frest and marsh in shallow the water official. 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# NGOING PROTECTION AND RESTORATION SUMMARIES

CPRA Program	Name	State Project		Federal	Parish	Acres	Miles of	Construction	Total Budget	Project Description	Planning Unit
,		Number	Type	Sponsor		Benefited	Levee	Completion			,
FEDERAL	Lake Pontchartrain Hurricane Mitigation Project	HPL-MIT	g.	USACE	ST JOHN THE BAPTIST	009	NiA	1996	\$2,222,892	This project consisted of a near-shore, segmented breakwater system in Lake Pontchartrain parallel to a five-mile reach of the Manchact Walfiel Management Area. The project specifically mitigated for damages resulting from construction of the Lake Pontchartrain Hunricane Projection project.	-
FEDERAL	M RGO Ecosystem Restoration	PO-0065	WM SP	USACE	ST BERNARD, ORLEANS	53700	NIA	Pending	\$2,900,000,000	ct inve	-
FEDERAL	Lost Lake Vegetation Project	TE-0082	۸۸	USFWS	TERREBONNE	NA	NVA	2011	\$161,000	This coastal vegetative planting project is for erosion control and habitat restoration in the Lost Lake area of southwestern Terrebonne Parish.	3A
FEMA	Houma Navigation Canal Levee	DSR-81557	ds.	FEMA	TERREBONNE	4000	NIA	1995	\$218,165	This FEMA project involved the repair of segments of the western bank of the Houma Navigation Canal damaged by Hurricane Andrew in 1992.	3A
FEMA	Wine Island	DSR-81558	MQ	FEMA	TERREBONNE	25	NIA	1995	\$253,579	This FEMA project was a cooperative verture with the USACE in the benefit ali use of dredged material from a scheduled Houma Navigations can manifesting energy of the Island was repaired to pre-Hurisane Andrew condition and planted with wenefam in cachies the sortiment	38
FEMA	Timbalier Island Repairs	DSR-81559	Ħ	FEMA	TERREBONNE	0.2	NIA	1996	\$551,653	Trister FEMA project closed a major breach created by Hunts ane Andrew and provided a 300-foot-wide elevated marsh platform to stabilize the said.	3A
FEMA	East Island Repair Protection	DSR-81560	MO	FEMA	TERREBONNE	25	NIA	1996	\$633,179	This FEM A project constructed an elevated marsh platform in an area of a Terrebonne Parish project destroyed by Humbane Andrew in 1993 y' expediation was also planted to stainlize the sand.	3.4
FEMA	LaBranche Wetlands	DSR-81768	es.	FEMA	ST CHARLES	N/A	NIA	2000	\$43,315	A 700-foot section of a Christmas tree brush fence was repaired. This project was damaged by Hurric ane Georges, Hurric ane Earl, and Troncial Shrim Francis in 1998	~
FEMA	Timbalier Island	DSR-81784	표	FEMA	TERREBONNE	NVA	N/A	2000	\$181,394	This FeM project repaired sand fencing on Timbalier Island that was destroyed during a series of tropical storms and humbanes in the fair of 1988.	3.4
FEMA	Falgout Canal	DSR-81785	as ds	FEMA	TERREBONNE	NIA	N/A	2000	\$10,761	The FEMA project replaced flap gates on water control structures damaged during tropic al storms and hurricanes in the fall of 1998. The installation of the new flappate culterfs was completed by Terretoune Parish Consolidated Government.	3.4
FEMA	East Island	DSR-81786	<u>a</u>	FEMA	TERREBONNE	NA	NA	2000	\$168,113	This FEMA project involved the planting of marsh vegetation on the dune and Lake Peto stroreline of East Island. This area is part of a CWPPRA project damaged by a senere of tropical storms and furricanes in the fail of 1998. A total of 4,280 smooth condigrass (Spartina aftermitions), 500 black mangrove (Avicemia germinans), and 6,147 roseau cane (Phragmites australis) plants were planted in April 2000.	3,4
FEMA	Isle Dernieres (Whiskey Island)	DSR-81787	> G	FEMA	TERREBONNE	1259	NVA	2000	\$581,566	This FEM A project involved the installation of sand fencing and the planting of vegetation to repair areas of Whiskey Island damaged by ropotal stora and DWIPFRA, funds were ropotal storage and CWIPFRA, funds were continued with the FIM A funds for reads.	3A
FEMA	M arsh Island Repairs	PW-1646	M	FEMA	IBERIA	NA	NIA	2005	\$885,861	This FEMA project consisted of repairs to areas of stone paving, stone dikes, and minor repair of navigation axis on the M arsh Island Phythotopy Resolution (TV-14) project damaged during Huricane Lill in 2002. The project also included minor maintenance work paid for by CWPPRA.	38
FEMA	Cote Blanche Repairs	PW-1906	Ŧ	FEMA	STMARY	NA	N/A	2005	\$64,092	This FEMA project consisted of repairs to areas of stone paving, stone dikes, and minor repair of navigation axis on the Cote Blanche Hydrology Resouration (TV-04) project damaged during Hurric are Lill in 2002. The project also included minor maintenance work paid for the CMOPPRA.	38
FEMA	Cameron Creole Structures	PW-4257	£	FEMA	CAMERON	N/A	NA	2007	\$325,700	This FEMA project consists of repairs to five structures of the Cameron-Creble Maintenance (CS-04a) project that were damaged by turnicane Ria in 2005. These structures are located at Grand, Peconi, Lambert, No Name, and Marginore Bayous.	4
FEMA	Holly Beach Sand Fencing	PW-4403	SP	FEMA	CAMERON	NIA	NIA	2006	\$218,473	This FEMA project consists of the replacement of 49,000 linear feet of sand fencing on the Holly Beach Sand Management (CS-31) project that was destroyed by Humbane Rita in 2005.	4
FEMA	Hopedale Hydrological Structure	PW-8743	Ŧ	FEMA	ST BERNARD	N/A	N/A	2007	\$64,900	ect irric	-
FEW A	Lake Pontchartrain Debris Removal	N/A	NA	N/A	JEFFERSON, ORLEANS, ST CHARLES, ST JOHN THE BAPTIST, ST TAMMANY, TANGIP AHOA	NA	N/A	2010	\$10,000,000	The goal of this project was to remove debris from aproximately 758 square miles of Lake Pontchafrain.	-
FEMA	M ontegut W etlands	PW-1728	MM	FEMA	TERREBONNE	NA	NIA	2005	\$1,093,962	This FEMA project repaired damage to the Montegut Wetland (TE-01) project that occurred during Huncane Lill in 2002. The project consisted of refurbishing and reconstructing 17,000 linear feet of an existing earthen levee using off-site borrow material.	3A
HSDRRS	West Bank and Vicinity	BA-0066	불	USACE	ST CHARLES, ORLEANS, JEFFERSON, PLAQUEMINES	N/A	71	Pending	\$3,150,000,000	The project is currently designed to provide 100 Year protection layers to the project area through the construction of layees to the 2011 protection layers.	2
HSDRRS	New Orleans to Venice	BA-0067	<u>+</u>	USACE	PLAQUEMINES	N/A	58	Pending	\$1,301,523,760	The NOV project consists of 24 areas of work covered by projects NOV 1-2, NOV 5-16, NOV-NF-W- 4 to 6, NF-02, and Taskforce olasdian (TFO) confinuing Projects P13-15, P17, and P24 that includes the section of the Plaquenthes Parish Hurrkane Protection System.	1,2
HSDRRS	Grand Isle and Vicinity	BA-0073	e e	USACE	JEFFERSON	N/A	Not Available	Pending	\$25,000,000	The Grand Isle and Vicinity Hurricane Protection Project consists of a 7.5 mile vegetated sand dune extending the length of Grand Isle's gulf shore, a jetty to stabilize the western end of the island at Caminada Pass, and an offstore breakwater system.	2
HSDRRS	Storm-Proofing of Interior Pumping Stations	BA-0074	æ	USACE	JEFFERSON, ORLEANS	N/A	NIA	2014	\$340,000,000	This project involves the installation of various improvement features to the interior pump stations of Orleans and Jefferson Parish under the Hurricane and Storm Damage Risk Reduction System (HSDRRS).	2
HSDRRS	HSDRRS Mitigation- WBV	BA-0109	MC	USACE	JEFFERSON, LAFOURCHE	1318	NVA	Pending	\$126,000,000	This USACE project involves the implementation of various restoration measures to mitigate wetland impacts associated with the construction of the West Bank and Vicinity (WBV) project.	2, 3A
HSDRRS	Risk Reduction- Barataria Basin Landbridge	BA-0148	MC, HP	USACE	JEFFERSON	223	NIA	Pending	\$10,100,000	This project is being led by USACE and is 100% federally funded with \$10.1 Million allocated by the U.S. 4th Supplemental Appropriations as a Hurmann Stelk Reduction project. It provides for about 101 acres of marsh creation and 122 acres of marsh nourisment on the south store of the Project.	2
HSDRRS	Previously Authorized Mitgation W BV	BA-0154	M > q - d	USACE	JEFFERSON, ST. CHARLES	1130	N/A	Pending	\$11,000,000	This project is being led by USACE and is 100% federally funded with approximately \$79 Million allocated. It provides for about 1,130 acres of further by 1 acquisition, intropresement, and management of approximately 12 access of Ell-Wetland habitat addiagent to Bayou Segrete Sitale Park, 2) acquisition of approximately 20 access of high value wooded wetlands in St. Charles Parks, and 3) acquisition, improvement, and management of approximately 350 acress of high quality wooded lards in St. Charles Parish.	2
HSDRRS	Plaquemines TFU Mitigation - Braithwaite to Scarsdale - Big Mar	BA-0156	M	USACE	PLAQUEMINES	24	NVA	Pending	\$2,800,000	This project is being led by USACE and is 100% federally funded with approximately \$2.8 Million allocated. It provides for the creation of approximately 24 cares of Marsh. Additionally, Papertimines Pasify will be combining a neighboring local project of 16 acres of marsh reading to this project virth's supplemental funding for a total of 40 acres.	-
HSDRRS	New Orleans to Venice Mitigation - Plaquemines Non- Federal	BA-0158	ω W	USACE	PLAQUEMINES	342	NVA	Pending	\$14,500,000	This project is being led by USACE and is 100% federally funded with approximately \$14.5 Million allocated it provides for about 180 acres of million, which includes approximately 50 acres of million. And in the septomentally 50 acres of the weldny combined, 50 acres of swarp, 50 acres of the stwards in marks, and 20 acres of backs of his set in marks, and 20 acres of backs of his set in marks.	2, 1
HSDRRS	New Orleans to Venice Mitigation - Federal	BA-0159	MC	USACE	PLAQUEMINES	410	NIA	Pending	\$30,000,000	This project is being led by USACE and is 100% federally funded with approximately \$30 Million allocated. It provides for about 700 acres of United by USACE and is 100% federally funded with wellow conclusion, which inches approximately 10 acres of United wellow conclusion. And acres of United Provides matery, 176 acres of Deacket maters), and 200 acres of salm matery.	2, 1
HSDRRS	Risk Reduction Via Modification to the Caernarvon Frestrwater Diversion	BS-0003-B	P. SD.	USACE	PLAQUEMINES	99	N/A	Pending/On Hold	\$10,100,000	This project is being led by USACE and is 100% federally funded with \$10.1 Million allocated by the U.S. 4th Supplemental Appropriations as a Hurrisane RBx Reduction project. It provides for redirecting water from the Caemaryon Diversion into the 40 Arpent Canal to enhance the movement of fresh, sedimentalen water with the marsh north Clacke Ley in order to hait and reverse marsh deterioration. This project was continuely us to should as a shunt under CWWFPEA BS-16 but removed to allow USACE to fund it as a	-

Number Lake Pontchartrain & Vicinity,			I GI I SI	_	MIES O	Construction	Total Budget	Project Description	Planning Unit
	Туре	Sponsor		pe	Levee	Completion			
	НΡ	USACE	ST BERNARD, ORLEANS	NA	2	2013	\$1,134,000,000	This project involves the construction of a Hunkane Surge Barner across the tip of Lake Borgne connecting the MRGO levees south of Bayou Blenvenue with the GIWW lavees East of Michoud Canalwith floodgates at Bayou Blenvenue and GIWWY.	۲
	TO	USACE	JEFFERSON, ORLEANS	NIA	NIA	Pending	\$1,170,974,586	This project consists of drahage and pump station projects within Jefferson Parish and Orleans Parish, on both the east bank and west nark of the Missession Priver.	1,2
	生	USACE	ORLEANS, JEFFERSON	N/A	0.34	Pending	\$614,800,000	This project, authorized under Public Law 109-234, twokes the design and construction of a permanent protection system for the outfall canals along 17th Street, Orleans Avenue, and London Avenue and instal pumps and closure structures at or near the lakefront.	÷
	ᇁ	USACE	ST JOHN THE BAPTIST, ST CHARLES, ST JAMES, ASCENSION	NA	27	Pending	\$898,584,586	This project invokes the assessment of humbane and storm reduction measures in a study area bounded by the Bonnet Carre Spilmay to the east. The Mississpip River to the south, Lakes Pontcharfrain and Maurepas to the north, and the St. James Parish/Ascersion Parish lies to the west.	-
ı	₽	USACE	ST CHARLES, JEFFERSON	NA	128	2010	\$3,852,000,000	Lake Pontchafram and Vicinity (LPV) is the hurricane protection program that involves approximately 30 hurricane protection projects in East Jefferson and St. Charles Parishes.	-
PO-0064	井	USACE	ORLEANS	NA	0.5	2012	\$157,156,414	This project consists of a gate closure structure across the Industrial Canal approximately 500 if South of the Ted Hickey Bridge at Lake Ponticharitain to work in conjunction with the IHNC Borgne Surge Barrier.	-
PO-0121	M	USACE	ST TAMMANY, ORLEANS	1089	N/A	Pending	\$85,000,000	This USACE project involves the implementation of various restoration measures to mitigate wetland impacts associated with the construction of the Lake Pontributionary and Visitive (LPV) project.	-
PO-0145	MM, VP	USACE	ORLEANS	899	NVA	Pending	\$780,000	This project is being led by USACE and is 100% federally funded with approximately \$2 M illion allocated. This project is mitigating approximately \$7 acress the provides for the elimination of non-make trees with spraying and mechanical cleaning, and then the replanting or up to 89,000 trees and shrubs of native species, correspess and others.	-
PO-0146	MC, SP	USACE	ST JOHN THE BAPTIST	1329	N/A	7/8/1905	\$22,985,958	This project is being led by USACE and is 100% federally funded with approximately \$21.3 Million allocated. It provides for containment felse with note and ill all and and the CPAT to the Cove project success). The project is intended to create marks and reduce erosion.	-
BA-0070	P	USACE	ASSUMPTION, LAFOURCHE	N/A	NVA	Pending/On Hold	\$133,500,000	The project will use a small diversion (less than 5000 cfs) to reinfroduce flow from the Mississippl River into Bayou Lafourche. Project goals include providing freshwater, sedment and nutlients needed to reduce salinly, stimulating plant productiby, and reducing wailand loss between Bayous Lafourche and Terreborne. Eurold from the budget surplus of 2008 will be used for the state's cost-share requirement. "Construction cost laken from WFDA 2007 lesisation.	3A
BA-0071	FD	USACE	PLAQUEMINES	NA	N/A	Pending/On Hold	\$278,300,000	Authorized by WRDA, 2007 as sediment disersion between 2,500 and 15,000 cfs. Orgoting modeling effort to examine potential for modification file WRDA authority for a larger sediment diversion to promote infilling or shallow open water areas through deposition and marsh expansion. "Fully funded Phase 2,003 faster from WRDA, 2007 agaistin.	2
BA-0072	FD	USACE	ST CHARLES, JEFFERSON, PLAQUEMINES, LAFOURCHE	NIA	N/A	Pending/On Hold	\$68,277,885	This modification project is authorized to study and design the modification of the structure and or outfall of the diversion to increase wetland restoration outputs within the Bardaria Bash.	2
BS-0019	FD	USACE	ST BERNARD, PLAQUEMINES	NIA	NVA	Pending/On Hold	\$21,000,000	This modification project is authorized to study and design the modification of the diversion structure and/or outfall of the diversion to nerease wetland restoration outputs south of Caemarvon, west of the Mississippi River.	-
BS-0020	FD	USACE	PLAQUEMINES	NA	N/A	Pending/On Hold	\$126,686,400	4 medium diversion from the Mississippi River into the central River aux. Chenes area using a controlled structure to provide additional restivater, nutrients, and the sediment to the area between the Mississippi River and River aux. Chenes ridges.	1
LA-0010	MC, BH	USACE	JEFFERSON, PLAQUEMINES, LAFOURCHE	NA	NVA	Pending/On Hold	\$363,900,000	The purpose of this project is to provide beact/idune restoration and marsh creation on Caminada Headlands and Shell Island.	2
LA-0019	DM	USACE	COASTWIDE	N/A	N/A	Pending/On Hold	\$100,000,000	This Feasibility Study will examine increased beneficial use of dredged material from Federally authorized navigation channels.	COASTWIDE
MR-0016	ОТ	USACE	PLAQUEMINES	NA	N/A	Pending/On Hold	\$25,358,136	This project invokes the development of a strategic farmework for feasibility evaluation of improved management of fresh water, nutrients, and sediment resources of the Lower Mississippi River, from the Old River Comfol Structure to Head of Passes, to better underlist plate. Plan.	1, 2
PO-0067	FD	USACE	ST JOHN THE BAPTIST	N/A	NA	Pending/On Hold	\$150,000,000	This project evaluates a small freshwater diversion (less than 5000 cfs) to introduce sediment and nutrients into Maurepas Swamp in order to faciliate organic deposition, improve biological productibity, and prevent further deteroration of the swamp. The state is using surplus funds as part of the required cost-share for this project. Fully funded Phase 2 cost provided is the the project led cost estimates.	-
PO-0068	FD	USACE	ST JAMES, ASCENSION	NA	N/A	Pending/On Hold	\$123,140,000	This project evaluates a small diversion of up to 5,000 of sfrom the Mississippi River into the Blind River through a new control structure to introduce frestivater, sediments, and nutrients into the southeast portion of the Maurepas swamp.	1
PO-0069	VP, HR	USACE	LIVINGSTON, ASCENSION	NA	N/A	Transferred	\$10,760,000	The goal of this project is to reestablish hydrologic connectivity between Maurenas Swamps and natural waterbodies. The project was transferred from the LCA program and is being implemented as State project PO-142.	-
TE-0067	MC	USACE	TERREBONNE	NA	NA	Pending/On Hold	\$62,600,000	The goals of this project are to prevent connection between the gulf and Calibu. Lake by constructing shoreline protection on the gulf and Grandou Lake by constructing shoreline protection on the gulf and of and goals of the gulf and can be goals of the gulf and the creating the grandous of the gulf and increase freshwater influence on mastises in project area.	3A
TE-0068	SP	USACE	TERREBONNE	NA	N/A	Pending/On Hold	\$48,300,000	The goal of the project is to stabilize gulf shoreline of Point A u Fer Island to prevent direct connection between gulf and interior water oodles thereby preventing conversion of existing wetlands to marine habitat.	3A
TE-0070	НВ	USACE	TERREBONNE	NA	NWA	P ending/On Hold	\$133,300,000	This project provides for the restoration of the Timbaler and isles Deninees barrier island chains. This would simulate historical conditions by substrict the last permisers (Raccountisant) with and durine restor find the last permisers (Raccountisand, East Saind, Timbaler island, and Whiter Island, and the Island, and the Island, and the Island and Island, and Whiter Island, and Whiter Island, and Whiter Island, and Whiter Island, and Is	3A
TE-0071	HR	USACE	TERREBONNE	NA	NA	Pending/On Hold	\$349,995,500	The project would increase existing Atchafalaya River influence to central (Lake Boudreaux) and eastern (Grand Bayou) Terrebonne marshes via the Gulf Intracoastal Waterway (GIWVW).	3A
BA-0143	HB	NVA	JEFFERSON, LAFOURCHE	532	N/A	2016	\$147,063,587	This project will restore and protect beach and dune habital across the Cammada Headland through the direct placement of approximately 54 million cubic yards of sandy material from Ship Shoal (an offstone borrow source). The project footpurit begins near Bayrou Maneau and extends approximately 9 miles east towards Cammada Pass. A total of 489 acres of beach and dune habitat will be restored.	2
BA-0153	OS SD	N/A	PLAQUEMINES	000'89	N/A	Pending	In Development	The MBSD is a large and complex of it works and restoration project. MBSD, when in operation, would bansfer sediment-laden water from the Mssessiop Phren through a set-contained harmentough. It is miss may be been confidence to the week from the Banstaia Basin. The project will restore the malust destire and sedimentation processes slowing the Missession Phren rear Phren Mis BOD. Thus should informed the project by build and not such rear and the Missession Basin and the Missession Basin and the Missession Basin and the Missession Basin Bas	2
BA-0163	OS .	N/A	PLAQUEMINES	In Development	N/A	NIA	In Development	The purpose of the project is to construct a sediment diversion to transport sediment from the Mississippi River into the Lower Barataria Basin to reseablish delike processes in order to build, sustain, and maintain welfands. The project intends to build a sediment diversion in the bower Barataria Basin the whether for frome anound 50 000 of scaacty.	2
BS-0023	SD	N/A	PLAQUEMINES	In Development	N/A	NVA	In Development	The purpose of the project is to construct a sediment diversion to transport sediment from the Mississippi River into the Lower Breton Sound Basin to reseasalism to be seen an order to budis, seasals, and markin-witefands. The project intends to build a sediment diversion in the lower Breton Sound in the verifing of Black Basin and 500 docs stapactiv.	1

# NGOING PROTECTION AND RESTORATION SLIMMARIES

CDD 0 Dmgram	Namo	Proto Droiner		Coderal	Darieh	oc.ou	Miles of	Construction	Total Dudget	Desired Description	Diamine Ilnit
	a a a a a a a a a a a a a a a a a a a	Number	Type	Sponsor		Benefited	Levee	Completion	20	Li object to esert phonon	
NFWF	M id Breton Diversion	BS-0030	IQ	N/A	PLAQUEMINES	In Development	N/A	Pending	In Development	The purpose of this project is to evaluate a sediment diversion located in the vicinity of White Ditch around 75,000 cfs.	1
NEWF	Increase Atchafalaya Flow to Easter Terrebonne	TE-0110	OS .	N/A	TERREBONNE	In Development	NVA	Pending	In Development	The purpose of the project is to utilize frestivester and settiment from the Akthadeleys River in order to budi, sustain, and mentriain wettends within the furebonner Basin. The project intensits to indep the Orlew seat of the Akthadeleys and indexia a typess siturcules at Bayou Boerd Lock to increase frestivester and sediment flows from Akthadeleys their to Terradonine Instites.	3A, 3B
NFWF	East Timballer Island Restoration	TE-0118	H	N/A	LAFOURCHE	In Development	N/A	Pending	\$74,000,000	This project will engineer and design a restoration of dune, supraidial, and intertidial habital, such that the two presently remaining, severely degraded island segments will be reconnected and the historic island footpring re-estabilished, which will improve bird and fish habital, help protect oil and gas infrastructure, and provide humbane surge protection for western Lafourche Parish.	3A
NRDA	Cheniere Ronquille Barrier Island Restoration	BA-0076	BH, MC	NMFS	PLAQUEMINES	408	NVA	Pending	\$38,883,175	The objective of this project is to prevent breaching of the barrier shoreline by restoring the dune and marsh platform. Project was designed under CWPPRA but will seek NRDA funds for construction.	2
NRDA	Shell Island West- NRDA	BA-0111	НВ	NA	PLAQUEMINES	347	N/A	Pending	\$110,524,280	This project aims to restore the integrity of the Shell island West barrier island, reduce wave energies within the bay area, and reestabilish productive habitat be Bastlan Bay and the surrounding area, it will create 328 acres of marsh and 372 acres of dune and heave.	2
NRDA	Lake Hermitage Marsh Creation Increment 2	BA-0141	MC	N/A	PLAQUEMINES	101	N/A	2014	\$139,000,000	property will create 101 acres of marsh building off of the BA-42 Lake Hermlage CWPPRA project utilizing NRDA early restoration funds.	2
NRDA	Queen Bess Island Restoration	BA-0202	Ħ	N/A	JEFFERSON	36	N/A	N/A	\$20,000,000	This project is designed to restore suitable colonial waterbird nesting and brood rearing habitat on the island from its current size of less than 5 as experiently a 5 acres (Figures 4.4 2.5). This will be accomplished by infortalish diredging selement from a nearby suitable offstore sand source and disposing of it within existing rock fring that outlines the island. The island will be purriped to a post-construction settled elevation of +5.5 NAVD 88. Small linessione will be deposited on most of the perimeter of the island to create a low maintenance above. The settled island to create a low maintenance and search like island to create a low maintenance of metit gerns and softwires. The sland will be planted with suitable vegatation to provide optimal nestino substate (or settle or asset) and settled general and searchers.	2
NRDA	Barataria Basin Ridge and Marsh Creation - Spanish Pass Increment	BA-0203	Ω Σ	N/A	PLAQUEMINES	1254	NA	NA	\$124,500,000	Spanish Pass is a natural historic tributary of the Mississippi River located west of Venice, Loudiana. The natural channel branks and adjacent marsh have degraded due to natural and manmade causes. The ridge restoration feature of this project will restore 1/20 acres of earther indge. The master reation feature of this project will dredge sediment from the Mississippi River, near Venice, LA, to create annownable 1.13 arms of marsh.	5
NRDA	Rabbit Island Restoration Project	CS-0080	Ħ	N/A	CAMERON	200	N/A	N/A	\$27,000,000	The primary goal of the project is nestore bird habitat by dredging material from the Cakasieu Ship Channel and adding fill to the island along with constructing rock dikes and dunes. Approximately 200 acres of bird habitat will be restored.	4
NRDA	Lake Borgne Marsh Creation - Increment One	PO-0180	MC	NA	ST BERNARD	1548	N/A	NA	\$127,000,000	This project will create approximately 1,548 acres of marsh, extending approximately four miles from Shell Beach on the southern rim of Lake Borgne to Lena Lagoon on the east.	1
NRDA	NRDA Caillou Lake Headlands	TE-0100	НВ	N/A	TERREBONNE	1272	N/A	Pending	\$111,309,000	This project aims to restore the Whiskey Island Barrier Island in order to retain its geomorphologic form and ecologic function. It will create 170 acres of marsh habitat and 917 acres of dune and beach habitat.	34
NRDA	Terrebonne Basin Ridge and Marsh Creation - Bayou Terrebonne Increment	TE-0139	MC	N/A	TERREBONNE	1496	NIA	N/A	\$126,000,000	The Byou, Letterbone letteredrief the Tenebonne Beain Ridge and Mast Orbanion Polest is adops executed and masts treation project will restore 126 area of a settlement to end the masts creation feature of this project will restore 126 area of earthen ridge, and the masts creation feature of this project will dredge sediment from offstore to create 1,370 acres of masts). This increment is part of learn or	3A
OTHER	Lake Pontchartrain Mitigation Project	HPL-MIT	SP	N/A	ST JOHN THE BAPTIST	009	N/A	1996	\$2,222,892	This project consisted of a near-strone, segmented brakwater system in Lake Pontchartain parallel to a five-mile reach of the Manchac wildlife Managerent Arker. The project specifically miligated for damages resulting from construction of the Lake Pontchartain Hunrame Protection project.	-
отнек	Coastal Wetlands Public Outreach	N/A	10	N/A	N/A	NA	NIA	N/A.	\$400,000	The DNR Public Information Office provides a rainety of printed materials, educ ational videos and cids, fast sheets, website information, and a travelling vehicles cantificity the public. Other department fundes in fortice participating in conferences, workshops, twe events, and school activities within the the pagency's educ adomation activities in participating the fleaux of it Task Force committees and the Anticipation Services with the Breaux Act Task Force committees and the Anticipation Services with the Breaux Act Task Force committees and the Anticipation of Act a resident of working a service and authorise, whites and epoches; the Public information office online—info@dnic state is us.	COASTWIDE
RESTORE	West Grand Terre Beach Nourishment and Stabilization	BA-0197	H	N/A	JEFFERSON	In Development	NIA	N/A	\$65,000,694	The project would complete the engineering and design to build an estimated 12,700 feet of beach and dune, restore up to 66 acres of back barrier marsh and a rock revetment to profect restored marsh.	2
RESTORE	Calcasieu Ship Channel Salinity Control Measures	CS-0065	笠	N/A	CAMERON	In Development	NIA	Pending	In Development	The purpose of the project is to manage salindies being introduced into adjacent water bodies through the Calcasiau Ship Channel to reduce the rate of waternd loss in the surrounding wellands. The project Inherds to construct features to prevent salwaiser from entering wellands adjacent to Calcasiau Late through the Calcasiau Ship Channel. Measures would control salinfs spikes and would be constructed in a manner that would allow for the contruded functioning and ideally improvement and increased vability of the Calcasia. Ship Channel and the Port of Lake Charles.	Ą
RESTORE	River Reintroduction into Maurepas Swamp	PO-0029	FD	EPA	ST JOHN THE BAPTIST, ST JAMES	36121	NIA	Pending	\$147,028,735	This project intends to reduce a natural indicatoric regime and increase nutrient inputs in cypress-tupeto swamp tracts south of Lake Maneress frough the diversion of Mississipal New water into a reas of degraded swamp. The project was originally proposed under CWPPAR, but underwant subsequent deeperprant as a State-only project.	1
RESTORE	Golden Triangle Marsh Creation	PO-0163	MC	N/A	ORLEANS, ST BERNARD	In Development	NVA	NA	\$54,550,330	This project would complete the engineering and design to create approximately 600 acres of marsh within the Colden Triange Marsh system.	1
RESTORE	Blloxi Marsh Living Shoreline Project	PO-0174	8	N/A	ST BERNARD	In Development	N/A	N/A	\$57,719,731	The project would create a living break-water structure by mechanically placing a manufactured structure, or suite of structures, off the shoreline of Eloi Bay and Eloi Point, near the mouth of Bayou La Loutre.	-
RESTORE	Houma Navigation Canal Lock Complex	TE-0113	Ħ	N/A	TERREBONNE	In Development	N/A	Pending	In Development	The Hourna Navigation Canal Lock Complex (TE-113) is a part of the Mongarca to the Oulf of Mexico Humsane Protection Project. The structure will provide storm surge protection, threesse freshanding and provide nariagation and prefer herman Navigation. Canal The Initial step is to meet with stakenologists of discuss alternative design, considerations for optimization of the HNC Lock Complex and determine a preferred design. The next step will be to conduct Engineering and Design of the preferred design.	3A
SECTION 204/1135	MRGO, Breton Island Restoration, Mile -2.3 to 4.0	NA	DM	USACE	PLAQUEMINES	26	NVA	1999	\$1,050,000	This Section 204 project utilized material from maintenance dredging activities along the Mississippi River Gulf Outlet (MRGO) to repair Breton Island.	1
SECTION 204/1135	MRGO, Breton Island Berm, Mile-2 to-3	N/A	MO	USACE	PLAQUEMINES	N/A	N/A	1999	\$150,000	This Section 204 project utilized material from maintenance dredging activities along the Mississippi River Guif Outlet (MRGO) to nourish the liftoral system that feeds Breton Island.	1
SECTION 204/1135		NA	DM	USACE	ST BERNARD	90	N/A	1999	\$350,000	This seekun, Out project produced for the unconfined plearement of 246 800 trubic eards of material into shallow water adjacent to the south letty at about men 15.2. The material was dregged from miles 14.0 to 11.0 of the Mississippi River out out outer (MRGO) manigation channel and placed to an elevation conductive to marsh vegetation establishment.	-
SECTION 204/1135	M ississippi River Gulf Outlet, M lle 14 to 12 (2002)	NA	DM	USACE	ST BERNARD	90	N/A	2002	\$290,000	The project involved pumping approximately 1.6 million cubic yards to create some 50 acres of marsh behind the MRGO jetty. This project was fast tracked due to the impact of Humbane Lill and Tropical Storm islobre in 2002.	1
SECTION 204/1135		N/A	DM	USACE	ST BERNARD	113	N/A	2003	\$580,000	This project involved purroing 4.3 million cubic yards of sediments to create 113 acres of marts. The material was dredged from males if 4.4 to 1.7 to of the Mississippi River Gulf Outlet (M RQO) navigation channel and placed at an elevation conductive to marsh vegetation establishment.	+
SECTION 204/1135	Barataria Bay Waterway, Mile 31 to 24.5	N/A	MO	USACE	JEFFERSON	125	N/A	1999	\$140,000	(BBWW) to create marsh habitat.	2

# NGOING PROTECTION AND RESTORATION SLIMMARIES

Planning Unit	3A	1	8	ঘ	4	4	4	4	4	4	4	2	2	2	2	-	88	38	38	4	4	38	-	4	4	1	2	
Project Description	Project features consisted of a thin layer marsh creation/nourishment covering 44 acres in Lafourche Parish.	This project involved the construction of a pumping station for ated along the south-central edge of the St. Bernard Parish Ridge. This will discharge colected artist into the marsh morth of Lake Leg and help prepared is alwayer influsion. The project was built in parties the with the Lake Borne Basin Leep District and was controlled in M and 1997.	The princary objective of this project is to protect the Cheniere au Tigre shoreine from additional enoison, and protect local infrastructure. The project used segmented to the characteristic and promules of the protection along the beach north of the translational and promules of the proposad series of signalizing and promules estimate the proposad series of segmented breakwalers was passed just east of the CVM PPRA thin deat VI-18 protect with up to nine additional structures. The structures cover approximately 2,800 linear feet with an approximately distance of 240 feet from the existing shoreline.	The objective of this project is to protect the marsh north of the Guff off weico shoreline by expanding shoreline protection in phases from Ocean Vew, Louisland to the east near Oceanie Passale Pass. A fluid of 34 therebrains where constructed in 1991, 27 threadwarders were constructed in 1991, 27 threadwarders were constructed in 1994 between Oceanies and Passale Passale Version of Passale Pas	The project was designed to stabilize salinities and water levels by reducing water flows through Rycade canal and Black Lake.	The intent of this project is to provide for repair and maintenance of critical perimeter control shuctures around Calcasteu Lake and repairs to the Cameron-Creole Levee. These structures were severely damaged by Humrane Rita.	This project consists of automating three existing water control structures along the east store of Calcalasieu Lake. These structures are remotely charded and are officult to manipulate. A utomation of these structures will improve management capabilities in the Sabine National Willighe Potions.	The project involved the re-establishment of dunes and beach head for 8.7 miles extending from the western Calcasieu River Jethy to the eastern-most breakwater at the Holly Beach – Constance Beach breakwater feld.	9 S	The purpose of this project was b prevent the Oulf infractoasta Wateway from breaching into Bind Lake. The project consisted of pisting 2.5 and hear feet of interaction breakwate anong the south of south of south was project to breakwate to enhance the accretion process project includes planting gaint outgrass characteristics militarely along the inside of the preservater to enhance the accretion process.	A total of 128 earthen terraces were constructed in a checkerboard pattern and planted with smooth condgrass (Spartina attenuffora) in open water areas of the Sahuen lational Wildlife Refuge. The project's objective was to increase the length of marsh-water interface, restablish emergent marsh vegetation, reduce marsh finge reterator y reducing wind-generated wave energy, increase overall primary productivity, and promotic the deposition (a suspended sediment.	This project consists of a rock dike built to protect the 6 our shoreline of West Grand Terre island and Fort Livingston. This project was expedited because erosion rates along West Grand Terre rapidly accelerated due to the impacts of tropical storms in 2002.	The purpose of this project was to reduce erosion on the bay side of Grand Isle. Fifteen 300-foot breakwaters were constructed on the back-bay side of Grand Isle.	Two stes were filled utilizing dredged material adjacent to Bale du Cabanage on the Sahador Wildlife Management Area. This project is part of the coaskwide state Dedicated Dredging Program. The goal of this program is to use a small, mobile hydraulic dredge along inland waterways in Louisiana's coastal zone to deposit dredged material, and thereby nourish andfor rebuild threatened coastal marshas adjacent to the waterways.	Three sites were filed utilizing dredged material adjacent to Bayou Dupont and The Pen. This project is part of the coastwide state Decidence Dredgen program. The goal of this program is to use a small, mobile invitaulic dredge along inland waterways in Louisiana's coastalizone to deposit dredged material, and thereby nourish and/or rebuild threatened coastal marshes adjacent to the waterways.	The project created approximately 26 acres of sustainable frestwater marsh in the vicinity of Pass a Loutre, Louisiana. This project is part of the costwice state to Declaring Program. The goal of this program is to use a small, mobile indraulic dredge along hiland waterways in Louisiana's coastal acree to deposit dredged material, and thereby noursh andor rebuild threatened coastal insustres adjacent to the waterways.	This project created approximately 40 acres of marsh just north of Lake DeCade along the western bank of M hors Canal. This project is part of the costwoles after Deficiated Dregging Program. The goal of this program is to use a small mobile hydraulic dregge along hiland waterways in Louisian's coastal zone to deposit dregged material, and thereby noursh andor rebuild threatened coastal marshes adia-ent to the waterways.	This project created approximately 38 acres of marsh near Califish Lake using dredged material from Grand Bayou Blue. This project is part of the coastwice state to be object program. The goal of this program is to use a small, mobile hydraulic dredge along hiland waterways in Louisiana's coastal zone to deposit dredged material, and thereby noursh and/or rebuild threatened coastal marshes adjacent to the waterways.	This project created approximately 67 acres of marsh on Point Au Fer Island adjacent to the CWPPRA TE-26 project using material deedged from Akthedaya, Bay. This project is part of the coastwide stafe Dedicated Dredging Program. The goal of this program is to use a small, mobile hydraudic fuedge along hinand waterways in Louislands coastal zone to deposit dredged material, and thereby nourish and/in rebuild intreadent coastal marshes adjacent to the waterways.	The project integrates ecosystem restoration and hurricane protection aternatives to address the coastal issues of Southwest Loudisma, it includes shorted stalligation, marsh creation, salinfy contro, hurricane protection, and chemier restoration measures. Printer was antinered neverber 2 3 only.	The purpose of this project is to cover the cost of marsh fill for the Sabine Refuge Marsh Creation, Cycle 2 Breaux Act project.	This project is to recognize activities undertaken by the State of Louisiana's Coastal Protection and Restoration Authority as part of the active process of managing multiple floodplain mapping projects for the coastal area of Louisiana.	This project will include all work involved in the development of the Diversion Management program. This will be performed by CPRA personnel and CHZM and will initially result in the development of full E.B. scopes for both the MicHBrataria and MicHBrataria diversons.	The purpose of this project is to introduce frestwater from the north to counteract the sativater intrusion from the south. The project consists of two water confloat stuctures and approximately 5,700 linear leet of earthen embankment needed to chamel water from White Lake to the south marshes.	The purpose of this project is to create 96 acres of marsh southeast of intersection of Acadiana Canal and Freshwater Bayou.	This project involved the excavation of 13 crevasses through the levees of Mississippi River distributary channels within the Balize Delta in order to create self-sustaining emergent marsh.	This project was authorized to construct segmented rock breakwaters on the bay side of Grand isle to protect camps located between Carninada Bay and the west side of Louislana Hwy 1. The Louislana Department of Natural Resources (LDNR) contributed no construction funds and was involved in construction inspection only. The local Levee District supplied construction funds.	The primose of this project is to return into operation the existing subon and to enlarge the size of the diversion so that more sediment
Total Budget	\$473,365	\$1,000,000	\$1,802,271	\$8,437,000	\$2,005,857	\$12,600,000	\$700,000	\$45,800,000	\$21,034,329	\$173,433	\$190,047	\$2,076,816	\$500,000	\$342,276	\$1,080,017	\$450,000	\$2,599,587	\$1,831,534	\$2,469,250	\$8,800,000	\$6,600,000	\$200,000	In Development	\$487,152	\$5,700,000	\$1,010,500	\$160,000	
Construction Completion	2002	1997	2005	1991, 1992, 1993, 1994	1994	2011	1999	2014	2010	1989	1990	2003	1995	1999	2000	2005	2006	2007	2007	Pending	2010	N/A	NVA	1992	2015	1993	1995	
Miles of Levee	NA	N/A	NVA	NVA	NVA	N/A	NIA	NVA	N/A	NA	NVA	NA	NVA	NVA	NA	N/A	N/A	N/A	NIA	In Development	N/A	NA	NA	NVA	NVA	NVA	N/A	
Acres Benefited	44	100	40	88	6256	2602	N/A	523	440	480	110	Not Available	09	28	99	26	40	38	29	In Development	227	NA	NA	39000	96	6719	90	
Parish	LAFOURCHE	ST BERNARD	VERMILION	CAMERON	CAMERON	CAMERON	CAMERON	CAMERON	CAMERON	CAMERON	CAMERON	JEFFERSON	JEFFERSON	STCHARLES	JEFFERSON	PLAQUEMINES	TERREBONNE	LAFOURCHE	TERREBONNE	CALCASIEU, VERMILION, CAMERON	CAMERON	COASTWIDE	JEFFERSON, LAFOURCHE, PLAQUEMINES, St. BERNARD	VERMILION	VERMILION	PLAQUEMINES	JEFFERSON	OU STRUCK
Federal Sponsor	NVA	NVA	BOEMRE	N/A	N/A	N/A	N/A	N/A	USACE	N/A	N/A	NVA	NYA	N/A	N/A	N/A	N/A	N/A	N/A	USACE	N/A	N/A	N/A	N/A	N/A	N/A	ΝΆ	V 11 4
Project Type	MC	FD	g.	SP	MM	£	£	TO	MO	SP	SNT	SP	SP	MC, DM	DM, MC	WQ	MO	DM, MC	MO	DM TE SP MC	DM	то	ō	FD	MC	gs	SP	6
State Project Number	BRM-01	9000-SB	CAT-01	CS-0001	CS-0002	CS-0004-A	CS-0004-A-1	CS-0033	CS-0034	78-S0	CS-ST	FTL-01	BSBIO	LA-0001-A	LA-0001-B	LA-0001-C	LA-0001-D	LA-0001-E	LA-0001-F	LA-0020	LA-0021-1	LA-0211	LA-0276	ME-0001	ME-0025-8F	MR-0001-B	NGI	PO00 00
Name	Brown Marsh	Lake Lery Hydrologic Restoration	Cheniere Au Tigre	Holly Beach	Rycade Canal Marsh M anagement	Cameron Creole Levee	Cameron-Creole Structure Automation	Cameron Parish Shoreline Restoration	Black Lake Supplemental Beneficial Use Disposal Area	Blind Lake	Sabine Terraces	Fisheries Habitat Restoration on West Grand Terre Island at Fort Livingston	Grand Isle Bay Side Breakwaters	Dedicated Dredging Program - Lake Salvador	Dedicated Dredging Program - Bayou Dupont	Pass a Loutre Site - Dedicated Dredging Program	Terrebonne School Board Site - Dedicated Dredging	Grand Bayou Blue Site - Dedicated Dredging	Dedicated Dredging - Point au Fer	Southwest Coastal Louisiana Feasibility Study	Sabine Cycle 2	MAS1 - Management	Sediment Diversion Implemenation and Program M anagement	Pecan Island Freshwater Introduction	Marsh Creation Near Freshwater Bayou	Small Sediment Diversions	North Grand Isle Breakwaters	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
CPRA Program	STATE	STATE	STATE	STATE	STATE	STATE	STATE	STATE	STATE	STATE	STATE	STATE	STATE	STATE	STATE	STATE	STATE	STATE	STATE	STATE	STATE	STATE	STATE	STATE	STATE	STATE	STATE	1100

		1	1		1		1		Γ		
		Number	Type	Sponsor	E E	Benefited	Levee	Completion	norgi panaler	r Unider Description	
	Bayou Chevee	PO-0002-C	SP	N/A	ORLEANS	75	NA	1994	\$62,000	This project installed 2,000 feet of brush fences at the mouth of Bayou Chevee.	-
STATE	LaBranche Shoreline Stabilization and Canal Closure	PO-0003	8	N.A	ST CHARLES	1750	NA	1987	\$1,324,000	The purpose of this project is to restore the integrity of the shoreline, which separates Lake Pontchartrain from the western edge of the LaBranche wetlands.	-
STATE	LaBranche Shoreline Protection	PO-0003-B	dS.	NVA	ST CHARLES	90	NIA	1996	\$1,290,851	A notk breakwater was constructed along the Lake Pontchantrain shoreline, east of Bayou LaBranche, to protect the hydrobogic soundary between the lake and the wetlands from being breached.	-
STATE	Central Wetlands Pump Outfall	PO-0008	FD	N/A	ST BERNARD	300	N/A	1992	\$250,000	This project is designed to provide freshwater, nutrients, and sediment associated with storm water runoff to an area of marsh near the Violet Siphon (P.O-01).	1
STATE	Turtle Cove Shore Protection	PO-0010	SP	ΝΆ	ST JOHN THE BAPTIST	184	N/A	1994	\$366,000	This project invoked the construction of a 1,840 foot rock-filled gabion breakwater to maintain and protect the Lake Pontchartrain shoreine that seleters. The Praine's (an 800-acre expanse of shallow, open water masch bordered by organic freshwater masch) from high wave energies and to encourage sediment deposition behind the gabion structure. An additional \$195,600 was used for maintenance in 2001.	-
STATE	MRGO Closure Structure	PO-0038-SF	TO	USACE	ST BERNARD	2343	NA	2009	\$14,116,500	This project involves the installation of a closure structure in the Mississippi River Gulf Outlet (MRGO) to prevent the intrusion of saline Gulf waters into intenor marsh has be channel. Project timplementation was 100% Feddraf, the State acquired Real Estate interests for structure and is responsible for O&M activities.	-
STATE	St. Bernard Parish 40 Arpent Levee Repairs	PO-0061	윺	N/A	ST BERNARD	NIA	Not Available	2011	\$5,000,000	This project is in the Lake Borgne Levee District and provided funds for the raising of low reaches of the Forty Arpent Levee.	-
STATE	Biloxi Marsh	PO-0072	dS.	N/A	ST BERNARD	300	NIA	2014	\$22,000,000	This project involved the construction of approximately four miles of shoreline protection along the southeastern shoreline of Lake Borgne.	-
STATE	North Shore Hurricane/Flood Protection and Restoration Plan	PO-0074	ТО	N/A	ST TAMMANY, TANGIPAHOA	NA	N/A	NA	\$1,271,898	This project involves the development of a hunteane protection plan for the North Shore.	-
STATE	M RGO and Lake Borgne (Bayou Dupre Segment)	PO-0093	as ds	USACE	ST BERNARD	NIA	NíA	Pending	Not Available	This project will construct approximately 17,850 linear feet of stone foreshore dike along the southwest shoreline of Lake Borgne in the riching of Bayou Dupre, CPRA is acquiring portforns of the two orster leases that are impacted by this project.	~
STATE	MRGO and Lake Borgne (Bayou Bienvenue Segment)	PO-0094	SP	USACE	ST BERNARD	NA	NA	Pending	Not Available	This project will construct approximately 14,440 linear feet of stone foreshore dise along the southwest shoreline of Lake Borgne in the vicinity of Bayou Bienvenue. CPRA is acquiring portions of the three oyster leases that are impacted by this project.	-
STATE	MRGO and Lake Borgne (Shell Beach Segment)	PO-0095	g.	USACE	ST BERNARD	NA	N/A	Pending	Not Available	This project will construct approximately 15,700 linear feet of stone foreshore dise along the southern shoreline of Lake Borgne, west of shell Beach. CPRA is acquiring portions of the four oyster leases that are impacted by this project.	-
STATE	MAS2 - Outreach	PO-0129	10	N/A	JEFFERSON, ORLEANS, PLAQUEMINES, ST BERNARD, ST CHARLES	NIA	N/A	NVA	\$266,670	The objective of this project is to support the release by the Federal Ernergency Management Agency (FEMA) of a Digital Flood Insurance Rate Map (DFIRM) and Flood insurance Study (FIS) report, for the Greater New Orleans area.	-
STATE	Hydrologic Restoration of the	PO-0142	HR, VP	N/A	ASCENSION,	1600	N/A	7/9/1905	\$3,592,100	The purpose of this project is to reestablish hydrologic connectivity between Maurepas Swamps and natural waterbodies; plant constains its highly detracted swamm bahtat	-
STATE	St. Tammany Parish Coastal Protection Study	PO-0167	£	N/A	STTAMMANY	N/A	NA	NIA	\$2,000,000	This project was re-scoped in March 2014 intow involves updating the 2012 Northshore Hurris are and Flood Protection Shudy for St. Tammany and Tangpahoa Parishes Shudy with newly completed and proposed projects in the St. Tammany Parish Coastal Zone. In addition, aga analysis will be proformed to benefit they may projects to unther protect vulnerable areas, and finally a benefit cost analysis of nonless will be undertaken to determine project profits and validity.	-
STATE	Violet Canal North Levee Alignment	PO-0170	Ħ	N/A	ST BERNARD	N/A	Not Avail	Pending	\$1,164,000	For the construction of a levee/floodwall in the vicinity of the Violet Canal, to maintain flood protection for the public and provide mutual benefit to the Citizens with fine territorial justicitions of OLD and DEBLD. The floodwalls required for the certification of the Forty American for the conflictation of the Forty American for the conflictation of the Forty	٢
STATE	Fontainebleau State Park Mitigation	PO-4355NP4	as ds	N/A	ST TAMMANY	9	N/A	1999	\$476,104	This project repaired a socious of spaces devoeline by depositing approximately 9,000 cubic yards of sand for a feeder berm on the asstanting and of the second social parts of sand for a feeder berm on the asstanting en	-
STATE	Raccoon Island Repair	œ	MQ	N/A	TERREBONNE	197	N/A.	1994	\$1,400,000	This project vas a cooperate forth that utilized thedgod material and vegetation to repair storm damage to Raccoon island Cooperators include the Louisana Department of Vatural Resources/Coastal Resolation Division. Louisana Department of Willife and Fatheries/for and Retaigue Dissoin. Treatonine Parish Consolidated Overnment, South Terreborner Tleawater Management and Conservation District. Telescent Smith & Son Inc., Coastal Engineering & Environmental Consultants, Inc., and Bean Dredging. Federal grant money was also utilized for this project by LDVR and TPCO.	3A.
STATE	Spollbank along the GIWW	SBG	VP	N/A	TERREBONNE	1	N/A	1993	\$9,400	This project planted 8,000 feet of spotbank along the Gulf intracoastal Wateway with black willow (Salk nigra) and baid cypress TG acoldum distribum) in an effort to reduce further bank erosion. The effectheness of different types of nutha excussion devices was also haden.	3.4
STATE	Sabine Shellbank Stabilization	888	g.	N/A	CAMERON	10	NA	1990	000'99\$	The purpose of this project was to provide natural shoreline protection by using tidal currents to deposit claim shell on the shoreline. The benefits of its design over the use of permanent structures are obsert cost, leads software of the natural habitat during construction, and allowing natural significant of sectionent and organisms whout mostiment.	4
STATE	M ontegut W etland	TE-0001	MM	N/A	TERREBONNE	4200	N/A	1993	\$5,537,036	The objective of the Montegut Wetland project is to protect and enhance 4,200 acres of degraded wetland habitat in the Pointe au Chein Wildlife Management Area southeast of Montegut, Louisiana.	3A
STATE	Falgout Canal Wetland	TE-0002	M	N/A	TERREBONNE	1300	NVA	1993, 1995	\$1,560,000	The primary objectives of this project were to protect approximately 8,000 acres of marsh and cypress-tupeto swamp, reduce saliwater intrusion, and improve widiffer habitat by moderating water flux and tital energy in the deteriorating wetland community.	3A
STATE	Bayou LaCache Wetland	TE-0003	MM	NYA	TERREBONNE	4374	NIA	1991, 1996	\$2,047,222	The goal of the project is to minimize the effects of saltwater intrusion by increasing the retention of freshwater derived from local runoff and establish control over saltwater flow into the project area.	3A
STATE	Pointe Aux Chien Hydrologic Restoration	TE-0006	MM	N/A	TERREBONNE	4700	NIA	2006	\$2,771,819	Cheres With a ranged by the Louisans Department of Villaties and Fisheries. Major funding for the project was provided by Ducks Cheres With armaged by the Louisans Department of Villatie and Fisheries. Major funding for the project was provided by Ducks Unfirited and the North Armers an Wellands Conservation Act.	3A
STATE	Lower Petit Caillou	TE-0007-B	Ŧ	N/A	TERREBONNE	3465	NIA	1995, 2007	\$1,536,084	The objective of this project is to decrease salwater intrusion into the project area by re-routing freshwater discharge from the ashbrook pumping station through the project area prior to entry into Lake Boudreaux.	3A
STATE	Point Farm Refuge Planting	TE-0014	۸۸	N/A	TERREBONNE	150	NIA	1995	\$226,931	Inspirator was been been un was abundant unavourised as funder annual want met out annual and a funder. Now, Approximately 188 300 seedlings of billion team, (2479 aquatics), water oak (Guercus night), and cow oak (Quercus michauxii), (with nutria exclusion devices) were planted on 300 acres of former farmland within the PFRA.	3A
STATE	M organza to the Gulf	TE-0064	£	USACE	LAFOURCHE, TERREBONNE	N/A	18	Pending	\$136,703,835	The project is currently being designed to provide protection to Terrebonne and portions of Lafourches parishes to provide protection against the place is to make of the resestand t-walls, navigation of 86 miles of levees and t-walls, navigation and annual succession of the research to make of the research that the provided with controlled and the research that the rese	3.4
STATE	Larose to Golden Meadow - Flood Protection	TE-0065	£	N/A	LAFOURCHE	N/A	23	2014	\$19,820,000	This project includes levee modifications and improvements. The project was allocated \$15 million in '08 Surplus and \$4, 82 million in 09 Surplus and \$15 million in 108 Surplus and \$15 m	2, 3A
STATE	Larose to Golden Meadow- Larose Sheetpile	TE-0065-SP	₽	N/A	LAFOURCHE	N/A	9.0	Pending	\$8,000,000	This project involves the construction of approximately 2400 feet of sheet pile to an elevation of +13 feet along the GIWW at Larose to no rease the level of hurricane protection for the adjacent area.	2
STATE	Lost Lake Vegetation Project	TE-0082	۸h	N/A	TERREBONNE	NA	N/A	2011	\$161,000	This project consists of vegetative plantings on the shore and vicinity of Lost Lake.	3A, 3B
STATE	HNC Deepening Section 203 Study	TE-0108	ОТ	USACE	TERREBONNE	N/A	NVA	Pending	ТВО	Feasibility Study and Els grenaction for investigating despening of the HVC to accommodate the current fleet of large vessels utilizing the nevelation of the commodate as well as well as the intreased need for support of the offsens of and gas platform fabrication operations along the HVC. This project is being managed by DOTD with interim funding being provided by CPRs p.	3.8
STATE	Valentine to Larose	TE-0111	НР	N/A	LAFOURCHE	N/A	0.38	2014	\$1,000,000	This project provides flood protection improvements to the current flood protection system under local jurisdiction and consists of enginering, resign, survey, death, entabilitation and possible construction of approximately 2,000 linear feet of levee along Bayou Lafourche from the lawn of Valentine to the flown of Laroes.	2
STATE	St. Mary Backwater Flooding	TE-0116	H	NVA	ST MARY, TERREBONNE	NVA	1.72	Pending	\$5,000,000	This project provides for flood protection improvement to the current Morgan CNy flood protection system by raising some of the existing levees to elevation as identified in the March 27, 2013 report by T. Baker Smith.	38

							PROJECTION	AND RESTOR	UNGUING PROTECTION AND REVIOUS ORALION SUMMARIES	
Name	State Project Number	ect Project Type	t Federal Sponsor	Parish	Acres Benefited	Miles of Levee	Construction Completion	Total Budget	Project Description	Planning Unit
Yellow Bayou	TV-0002-B	a SP	NIA	STMARY	126	NVA	1992	\$194,500	The objectives of the project were to maintain the integrity of approximately 2,000 acres of interior marsh between Jackson Bayou and the Pffish-where a Caral and to stadice 2, 456 feet of the East Code Banche Bay stroighe. This was achieved by constructing an oyster shell be madiacent to the water's edge to reduce shorteline erosion.	38
M arsh Island Control Structures	9000-VT	MM	N/A	IBERIA	643	N/A	1993	\$453,500	The objectives of this project were to reduce the rate of land loss, revegetate shalow open-water areas, and increase waterfown food within the water management units. Flap-gated/stoplog utwents are definence and bulks were installed in october of 1993 at the northeast and southeast units to control water exchange between the units and the surrounding water bodies. Within the norsargement units, can al spoil banks were breached and ditches were constructed to facilitate water movement between interior marsh ponds.	88
Freshwater Bayou Bank Protection	TV-0011	å	N/A	VERMILION	241	NA	1994	\$2,177,025	This project conserves vegetated wetlands by maintaining the physical integrity of marshes that separate Freshwater Bayou and interior water bodes. The dominant project feature consists of the construction of 74,000 linear test of rock clike, extending north to the confluence of Bele iste Bayou and Freshwater Bayou. The original project was constructed in 1994, however, repairs were made to the stucture in 1998 and 2001.	88 8
Oaks/Avery Structures	TV-0013-B	B SP	N/A	VERMILION, IBERIA	160	N/A	2000	\$3,107,735	This project enhanced the adjacent CWPPPRA-funded TV-13a project by instaling low-sil structures at the outfall of Oaks and Avery Canals to redirect more water flow through the portion of Bayou Petite Anse south of the GWWW.	38
South Central Coastal Plan	TV-0054	OT	USACE	ST MARY, IBERIA, ST MARTIN	In Development	In Development	Pending	\$970,000	The South Central Coastal project was authorized \$970,000 in 2009 surplus funds. The project team, which includes the Office of Coastal proteion and Restoration, SI Mary Parist, SI Marth Parist, have inflated a data gathering effort. We anticipate compelling this phase of the project by the end of 2010. This information will be used text start the project with the US Army copps of Engineers. Once study authorization is obtained from the US Congress the project will progress to the feasibility phase.	B.
Morgan City/ St Mary Flood Protection	TV-0055	료	N/A	STMARY	NA	4.5	Pending	\$3,870,000	This project will provide flood protection improvements by raising or improving over seven miles of the current levee system in the Morgan City area.	38
Delcambre-Avery Canal (E&D)	&D) TV-0057	윺	NA	IBERIA	N/A	NA	N/A	\$970,000	This project will design and engineer a flood control structure for the Delicambre-Avey Canal just south of the Intracoastal Waterway. When constructed this project will provide flood grotefron improvements by allowing the closure of the Delicambre-Avey Canal to reduce the innest of storm surce from Varian dodge.	38
Bayou Tigre Flood Control Complex	TV-0075	윺	NIA	IBERIA, VERMILION	NIA	Not Avail	Pending	\$6,280,000	This project will use utilize \$6,280,000 of funds re-allocated from TV-56 to design and construct a pumping station to augment flood contributions as a closure agas across Bayou Tippe, currently under design as project 1V-87. This project will help mitigate ponding and flooding on the contected side caused by flood alse closure durin a lendth value hend.	38
Surplus Freshwater Bayou Bank Stabilization	TV-0076	S	N/A	VERMILION	Not Available	NIA	2016	\$1,300,000	This project will utlize §1,300,000 remaining from the ME-0025-SF project to augment the TV-0011B-EB foreshore rock dike feature along Freshwater Bayou.	38
Quintana Canal/Cypremort Point	TV-4355NP1	P4 SP	N/A	STMARY	26	NVA	1998	\$1,316,818	The project features approximately 3,650 inserfeet of rock breakwaters along the Vermillon Bay stroreline and approximately 3,375 inserfeet of foreshore rock dike along the Vermillon Bay/Quintana Canal intersect and the south bank of the Quintana Canal	38
Beneficial Use of I-10 Twin Span Debris (Deauthorized)	N/A	TO.	N/A	ORLEANS	NA	NVA	Deauthorized	\$1,500,000	This project involves the use of Twin Span Debris as a form of shoreline protection for the Bayou Sauvage area.	1
East of Harvey Canal Interim Hurricane Protection - Phasel	m Sel	보	N/A	JEFFERSON	NA	N/A	2009	\$4,000,000	This project involved the instalation of a continuation of sheat pile and earthen flood protection, ultriadely to an elevation of 10.0 feet along the sast of the Heavey Canal from the sector gate at Lapaco Boulevard to the existing teree at the west end, to provide intermituminant protection during constitution of the HSDARS system.	2
Raising of LA 1 at Golden Meadow Floodgate and Completion of Golden Meadow Lock Structure	dow N/A	Ħ	N/A	LAFOURCHE	N/A	N/A	2010	\$18,000,000	This project funded the rasing of LA-1 to the 100-year flood elevation and to complete the lock in Bayou Lafourche, both critical elements of the Larose to Golden Meadow Hurrisone Protection System .	2
Raising of LA 23 at LaReussite	ssite N/A	H	NVA	PLAQUEMINES	NA	N/A	2012	\$1,200,000	This project involves raising LA Hw. 23 to the elevation of the adjoining La Reusste Siphon guide levees, where the highway crosses those guide levees. LDOTD performed the engineering in house and let contracts to complete the project.	2
Bay Welsh Disposal Site (Houma Navidation Canal)	NA	MO	N/A	TERREBONNE	NA	NIA	N/A	\$300,000	The purpose of this project is to pre-clear the Bay Welsh disposal site adjacent to and east of the Houma Navigation Canal.	3.8
Chabert Ring Levee	NA	유	N/A	TERREBONNE	NIA	Not Available	2008	\$500,000	The project consists of the design and construction for a segment of levee around the Chabert Medical Center in Hourna, Louislana. The proposed firig beev will surround the Chabert Medical Center and will provide flood protection for the facility aboving operation during operation. during oossible frood events.	3,4
Wine Island	N/A	DM	N/A	TERREBONNE	NA	NA	2007	\$2,000,000	The purpose of this project was to beneficially use material from the dredging of the houma Navigation Canal Bay Channel on Wine Island.	3A
NRCS Biomass Production Program	NA	V	NRCS	COASTWIDE	NIA	NA	N/A	\$80,000	The NRCS-LDNFVCRD Biomass Program is a muthyear programmatic initiative to accelerate the collection, teating, and release of important coasta witsind restring, and release of mirroriant coasta witsind restraining pains. The Biomass Program was in 1999 in conjunction with the LDNRVCRD Small-Drigge Program with enrihasis on plant performance and dedictated releage sediment. This program is an important coastal restoration inflatives that is advancing coastal welfand plant teathough elevelopment.	COASTWIDE
NRCS Biomass Production Program	NIA	٧P	NWRC	COASTWIDE	NIA	NA	N/A	\$1,552,100	This multyear cooperative agreement funds the study of endemic wetland plant productivity, with the goal of identifying specific environmental conditions to assume maximum growth of a number of varieties (i.e., cultivary) within four plant species. The information obtained is intended to facilitate matching plant species and varieties to expected environmental conditions at restoration sites, thereby increasing the likelihood of successful repagatation efforts.	COASTWIDE
NRCS Vegetative Planting	NIA	۸۸	NRCS	COASTWIDE	609	N/A	N/A	\$388'868\$	This is a coastal vegetative planting program that is implemented annually and involves the installation of vegetative plantings in selected areas where vegetation is needed.	COASTWIDE
Davis P ond Freshwater Diversion	BA-0001	G	USACE	STCHARLES	33000	NVA	2002	\$120,000,000	The purpose of this project is to maintain and enhance the existing ecological ramework of the Barataria Basin by providing freshwater, inditions, and sediment. This will counter salwater influsion and hap offset march subsidence. This project can dwert up to 10,650 orgs.	2
Caemanon Freshwater Diversion	8000-SB	FD	USACE	PLAQUEMINES	16000	NIA	1991	\$24,818,800	This project diverts freshwater and its accompanying nutrients and sediment from the Mississippi River to coastal bays and marshes in Breton Sound for fish and wildlife enhancement. This project can divert up to 8,000 cubic feet per second.	-

Hories:

Program: OWPPRA-Coastal Wetlands Planning, Protection and Restoration Act; State-Restoration protects funded primarily by the State of Louisana SECTION 20411 35= Water Resource Development Act; Colections 204 and 1135 persential use of dredged material protects. WRDA=W ater Resources Development Act; LOA-Louisana Coastal Area; FEMA=Federal Emergency material protects. WRDA=W ater Resources Development Act; LOA-Louisana coastal Area; FEMA=Federal Emergency Management froat Assistance Program; Surplus 07; Surplus 08; Surplus 08=State surplus-funded protects. Other-Tunded by pronators not otherwise Island.

Agency: FEMA=Federal Emergency Management Approx; Put-Outsing and Outsin Development MMFS=Nationmental Protection Agency; Put-Outsing and Outsing Development NMFS=National Marine Fisheries Service; NRCS=National Marine Fisheries Service; NRCS=National Resource; Orders Of Engineers; USGS=U.S. Geological Survey.

Project True. BH=B anier Island Headland, DM=Bendricia Use of Dredged M derial; FD=Freshwater Dkersion; HP=Hurricane Protection; HP=Hydrobopic Restoration; MC=Marsh Creation; MM=M anagement; OM=Outlal M anagement; OFF-other project types (infrastructure, etc.); PP=Property Purchase; SD=Bedment Dwersion; SNT=Sedment and Nutrient Trapping. SP=Shoreline Protection; TE=Terraces; VP=Veget alon Planting.

### Appendix B Three-Year Expenditure Projections

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

	. Coastal Wetlands Planning, Protection and Res		,	,	
Project ID	Project Name	FY 2018	FY 2019	FY 2020	Project Total (FY 2018 - FY 2020)
Engineeri	ng and Design (P1)				
	Caminada Headlands Back Barrier Marsh Creation				
BA-0193	Increment 2 <sup>1</sup>	\$565,952	\$125,120	\$0	\$691,072
BA-0194	East Leeville Marsh Creation and Nourishment <sup>1</sup>	\$800,000	\$600,000	\$300,000	\$1,700,000
BA-0195	Barataria Bay Rim Marsh Creation and Nourishment	\$250,000	\$175,000	\$75,000	\$500,000
CS-0049	Cameron-Creole Freshwater Introduction	\$100,000	\$0	\$0	\$100,000
CS-0078	No Name Bayou Marsh Creation and Nourishment <sup>1</sup>	\$570,507	\$302,362	\$0	\$872,869
CS-0079	Oyster Lake Marsh Creation and Nourishment <sup>1</sup>	\$2,000,000	\$600,000	\$0	\$2,600,000
ME-0031	Freshwater Bayou Marsh Creation	\$23,891	\$11,945	\$0	\$35,836
ME-0032	South Grand Chenier Marsh Creation- Baker Tract	\$93,060	\$39,680	\$0	\$132,740
PO-0075	LaBranche East Marsh Creation	\$48,183	\$24,092	\$0	\$72,275
PO-0133	LaBranche Central Marsh Creation	\$77,393	\$33,169	\$0	\$110,562
	New Orleans Landbridge Shoreline Stabilization and Marsh				
PO-0169	Creation <sup>1</sup>	\$542,286	\$242,172	\$0	\$784,458
PO-0173	Fritchie Marsh Creation and Terracing	\$26,280	\$26,280	\$13,140	\$65,700
PO-0178	Bayou LaLoutre Ridge Restoration and Marsh Creation 1	\$1,077,905	\$1,077,905	\$1,077,905	\$3,233,715
	St. Catherine Island Marsh Creation and Shoreline				
PO-0179	Protection <sup>1</sup>	\$955,723	\$955,723	\$477,862	\$2,389,308
TE-0112	North Catfish Lake Marsh Creation	\$22,883	\$8,009	\$0	\$30,892
TE-0117	Island Road Marsh Creation and Nourishment <sup>1</sup>	\$1,151,337	\$31,543	\$0	\$1,182,881
TE-0134	West Fourchon Marsh Creation <sup>1</sup> Bayou DeCade Ridge and Marsh Creation <sup>1</sup>	\$792,890	\$198,223	\$0	\$991,113
TE-0138	, ,	\$1,283,254	\$1,283,254	\$641,627	\$3,208,134
Constru	ction (P2)		1		
	Hydrologic Restoration and Vegetative Planting in the Lac				
BA-0034-2	des Allemands Swamp <sup>1</sup>	\$2,008,304	\$217,342	\$0	\$2,225,646
BA-0034-2 BA-0125	Northwest Turtle Bay Marsh Creation <sup>1</sup>	\$2,008,304	\$16,487,209	\$10,991,473	\$27,678,682
BS-0016	South Lake Lery Shoreline and Marsh Restoration	\$321,482	\$10,467,209	\$10,991,473	\$321,482
DO-0010	South Lake Lery Shoreline and Marsh Nestoration	Ψ321,402	ΨΟ	ΨΟ	Ψ321,402
CS-0054	Cameron-Creole Watershed Grand Bayou Marsh Creation 1	\$16,823,058	\$4,205,765	\$0	\$21,028,823
CS-0059	Oyster Bayou Marsh Creation and Terracing <sup>1</sup>	\$13,376,082	\$0	\$0	\$13,376,082
CS-0066	Cameron Meadows Marsh Creation and Terracing <sup>1</sup>	\$720,000	\$21,243,465	\$8,950,056	\$30,913,521
LA-0284	Salvinia Weevil Propagation Facility <sup>1</sup>	\$94,980	\$339,287	\$0	\$434,267
ME-0018	Rockefeller Refuge Gulf Shoreline Stabilization <sup>1</sup>	\$22,628,242	\$7,542,747	\$0	\$30,170,989
ME-0020	South Grand Chenier Marsh Creation Project	\$30,368	\$7,592	\$0	\$37,960
ME-0021	Grand Lake Shoreline Protection, Tebo Point	\$150,000	\$0	\$0	\$150,000
PO-0104	Bayou Bonfouca Marsh Creation 1	\$13,607,626	\$0	\$0	\$13,607,626
TE-0072	Lost Lake Marsh Creation and Hydrologic Restoration <sup>1</sup>	\$20,173,768	\$0	\$0	\$20,173,768
TV-0063	Cole's Bayou Marsh Restoration <sup>1</sup>	\$16,434,897	\$4,108,724	\$0	\$20,543,621
Demonstr	ration Projects (P1 & P2)				
	Shoreline Protection, Preservation, and Restoration (SPPR)				
LA-0280	Panel <sup>1</sup>	\$117,835	\$117,835	\$117,835	\$353,504
Subtotal		\$117,068,184	\$60,004,442	\$22,644,897	\$199,717,523
Adjustme	nt for Outlying Years <sup>2</sup>	N/A	\$29,995,558	\$67,355,103	\$97,350,661
Total Exp		\$117,068,184	\$90,000,000	\$90,000,000	\$297,068,184
	xpenditures (See Table B-5)	(\$12,174,792)	\$0	\$0	(\$12,174,792)
•	xpenditures (see Note 1)	\$96,384,103	\$75,904,989	\$76,500,081	\$248,789,173
	d Expenditures	\$8,509,289	\$14,095,011	\$13,499,919	\$36,104,219
Notes:		\$5,000, <b>2</b> 00	ψ,σοσ,στι	ψ. ο, 100,010	ψου, 10 1, <u>2</u> 10

Table B-2. Louisiana WRDA Projected Expenditures

Project ID	Project Name	FY 2017	FY 2018	FY 2019	Project Total (FY 2017 - FY 2019)
BA-0191	Spanish Pass Ridge and Marsh Restoration <sup>1</sup>	\$0	\$0	\$0	\$0
LA-0020	Southwest Coastal Louisiana <sup>2</sup>	\$901,048	TBD	TBD	\$901,048
Total Exp	enditures	\$901,048	\$0	\$0	\$901,048
Surplus E	xpenditures for WRDA (see Table B-6)	(\$901,048)	\$0	\$0	(\$901,048)
Trust Fur	nd Expenditures for WRDA	\$0	\$0	\$0	\$0
Motoo					

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

Project ID	Project Name	FY 2018	FY 2019	FY 2020	Project Total (FY 2018 - FY 2020)
BA-0082	Lafitte Area Levee Repair	\$700,000	\$0	\$0	\$700,000
TE-0063	Falgout Canal Road Levee <sup>1</sup>	\$2,000,000	\$0	\$0	\$2,000,000
TE-0078	Cut-Off/Pointe Aux Chene Levee	\$7,095,000	\$0	\$0	\$7,095,000
N/A	CDBG Program Administration	\$11,680	\$11,680	\$0	\$23,360
Total Expen	ditures	\$9,806,680	\$11,680	\$0	\$9,818,360

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

Project ID	Project Name	FY 2018	FY 2019	FY 2020	Project Total (FY 2018 - FY 2020)
<b>MOEX Proj</b>	ects				
	Mississippi River Delta Strategic Planning-				
MR-0016-S	SSPM Expansion <sup>1</sup>	\$0	\$0	\$0	\$0
	Hydrologic Restoration of the Amite River				
PO-0142	Diversion Canal <sup>1</sup>	\$704,687	\$131,250	\$704,687	\$1,540,624
Capital Out	tlay Projects				
BA-0066	West Bank and Vicinity <sup>2</sup>	\$560,000	\$0	\$0	\$560,000
BA-0075-1	Jean Lafitte Tidal Protection <sup>3</sup>	\$0	\$0	\$0	\$0
BA-0075-2	Rosethorne Tidal Protection <sup>3</sup>	\$0	\$0	\$0	\$0
TE-0064	Morganza to the Gulf <sup>2</sup>	\$15,000,000	\$0	\$0	\$15,000,000
LDOTD Inte	eragency Transfer Projects				
TE-0108	HNC Deepening Section 203 Study	\$73,600	\$0	\$0	\$73,600
Projects wi	th Trust Fund Expenditures				
BA-0109	HSDRRS Mitigation- WBV <sup>3</sup>	\$50,000	\$50,000	\$50,000	\$150,000
BA-0154	Previously Authorized Mitigation WBV <sup>3</sup>	\$50,000	\$50,000	\$50,000	\$150,000
	New Orleans to Venice Mitigation-				
BA-0158	Plaquemines Non-Fed <sup>3</sup>	\$5,840	\$11,680	\$11,680	\$29,200
BA-0159	New Orleans to Venice Mitigation- Fed <sup>3</sup>	\$5,840	\$11,680	\$11,680	\$29,200
PO-0057	SELA- Overall <sup>3</sup>	\$20,440	\$20,440	\$20,440	\$61,320
PO-0121	HSDRRS Mitigation- LPV <sup>3</sup>	\$56,064	\$56,064	\$56,064	\$168,192
Total State	Expenditures	\$16,526,471	\$331,114	\$904,551	\$17,762,136
Notes:		•			_

- 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.

<sup>1-</sup> 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.

<sup>2-</sup> 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 2019 - FY 2020 are therefore based on prior years' expenditures.

<sup>1-</sup> Project construction is anticipated to continue into FY 2018, but all CPRA expenditures are anticipated to be complete by the end of FY 2017.

<sup>2-</sup> 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.

<sup>1-</sup> Project is anticipated to complete construction in FY 2017; FY 2018 expenditures are for closeout activities.

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

Project ID	Project Name	FY 2018	FY 2019	FY 2020	Project Total (FY 2018 - FY 2020)
BA-0025	Bayou Lafourche Freshwater Introduction <sup>1</sup>	\$848,740	\$0	\$0	\$848,740
BA-0043 (EB)	Mississippi River Long Distance Sediment Pipeline <sup>2</sup>	\$10,700,527	\$0	\$0	\$10,700,527
BA-0045	Caminada Headland Beach and Dune Restoration <sup>3</sup>	\$159,016	\$126,508	\$0	\$285,524
	Medium Diversion with Dedicated Dredging at Myrtle				
BA-0071	Grove <sup>4</sup>	\$3,860,892	\$0	\$0	\$3,860,892
BA-0075-1	Jean Lafitte Tidal Protection	\$10,000,000	\$4,500,000	\$0	\$14,500,000
BA-0075-2	Rosethorne Tidal Protection	\$4,500,000	\$5,500,000	\$0	\$10,000,000
BA-0085	St. Charles West Bank Hurricane Levee Protection	\$4,000,000	\$2,116,368	\$0	\$6,116,368
BA-0115	Donaldsonville to the Gulf <sup>6</sup>	\$1,325,833	\$0	\$0	\$1,325,833
BA-0169	Kraemer/Bayou Boeuf Levee Lift	\$1,000,000	\$0	\$0	\$1,000,000
CS-0004	Cameron Creole Levee <sup>6</sup>	\$2,876,528	\$0	\$0	\$2,876,528
LA-0020	Southwest Coastal Louisiana	\$901,048	\$0	\$0	\$901,048
ME-0025 (SF)	Marsh Creation near Freshwater Bayou	\$0	\$0	\$0	\$0
PO-0062	West Shore Lake Pontchartrain	\$3,500,000	\$0	\$0	\$3,500,000
PO-0063	Lake Pontchartrain and Vicinity	\$17,478,316	\$2,922,920	\$1,106,000	\$21,507,236
PO-0072	Biloxi Marsh <sup>6</sup>	\$849,395	\$0	\$0	\$849,395
PO-0167	St. Tammany Parish Coastal Protection Study	\$1,200,000	\$700.000	\$0	\$1,900,000
PO-0170	Violet Canal North Levee Alignment <sup>7</sup>	\$219,874	\$0	\$0	\$219,874
TE-0064	Morganza to the Gulf	\$10,700,000	\$600,000	\$0	\$11,300,000
TE-0065-SP	Larose to Golden Meadow- Larose Sheetpile	\$2,000,000	\$0	\$0	\$2,000,000
TE-0113	Houma Navigation Canal Lock Complex	\$8,000,000	\$0	\$0	\$8,000,000
TE-0116	St. Mary Backwater Flooding	\$2,147,950	\$536,988	\$0	\$2,684,938
TV-0054	South Central Coastal Plan	\$449,420	\$0	\$0	\$449,420
TV-0055	Morgan City/ St Mary Flood Protection	\$5,162,062	\$0	\$0	\$5,162,062
TV-0057	Delcambre-Avery Canal (E&D)	\$103,892	\$0	\$0	\$103,892
TV-0067	Bayou Tigre Flood Control Project	\$500,000	\$2,488,375	\$2,488,375	\$5,476,750
TV-0075	Bayou Tigre Flood Control Complex	\$3,421,200	\$2,280,800	\$0	\$5,702,000
N/A	East of Harvey Canal	\$161,399	\$0	\$0	\$161,399
N/A	Southeast Louisiana Flood Protection/ LERRDS <sup>8</sup>	\$47,161,375	\$3,429,800	\$3,460,000	\$54,051,175
	Atchafalaya Basin Natural Resources Inventory and Assessment <sup>6</sup>	#200 420	<b>*</b>		COOC 400
AT-0013		\$289,120	\$0	\$0	\$289,120
LA-0026	Rehabilitation and Repair of State Restoration Projects <sup>6</sup>	\$759,739	\$0	\$0	\$759,739
LA-0027	Barrier Island Maintenance Program	\$2,644,359	\$0	\$0	\$2,644,359
N/A	Science, Technology, and Education  Coastal Wetlands Planning, Protection and Restoration	\$0	\$0	\$0	\$0
N/A	Act (CWPPRA) <sup>6</sup>	\$624,870	\$0	\$0	\$624,870
LA-0025	Innovative Coast-Wide Initiatives	\$024,870	\$0	\$0 \$0	\$024,870
N/A	Beneficial Use	\$1,709,653	\$0 \$0	\$0 \$0	\$1,709,653
N/A	Emergency Reserve	\$6,263,645	\$0	\$0 \$0	\$6,263,645
N/A	Innovative Programs	\$876,143	\$0 \$0	\$0 \$0	\$876,143
LA-0259	University Partnerships		\$0 \$0	\$0	\$126,320
		\$126,320	·	\$0 \$0	
N/A	Non-Structural Program Development <sup>9</sup> Levee Engineering and Design Standards Development	\$500,000	\$798,551	7.7	\$1,298,551
LA-0265	and Analysis	\$4,263,087	\$0	\$0	\$4,263,087
Total Expendi	tures	\$161,284,403	\$26,000,310	\$7,054,375	\$194,339,088

### Notes:

- 1- Expenditures represent contingency funds to cover post-construction activities.
- 2- Includes funding for Large-Scale Barataria Marsh Creation (BA-0192) and CWPPRA projects (see Table B-1).
- 3- Surplus funds include post-construction monitoring expenditures (see Table B-8).
- 4- Includes funding for Diversion Modeling and Model Improvement (LA-0282).
- 5- Expenditures may be used for project closeout and to supplement funding of other coastal projects.
- 6- Expenditures may be used to supplement funding of other coastal projects.
- 7- Project constructed with leftover funds from project PO-0061 (completed in FY 2011).
- 8- 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).
- 9- Funds will be used to develop a coordinated strategy for implementing nonstructural projects in 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

Art 2002	Project No.	Project Name	FY 2018	FY 2019	FY 2020	Project Total (FY 2018 - FY
AF-00003 Sign jaland himning  AF-00002 GWW (Cell trinscontate Waterway) to Clovely Hydrologic Restoration  AF-00002 GWW (Cell trinscontate Waterway) to Clovely Hydrologic Restoration  AF-00007 CWW (Cell trinscontate Waterway) to Clovely Hydrologic Restoration  AF-00007 CWW (Cell trinscontate Waterway) to Clovely Hydrologic Restoration  AF-00007 CWW (Cell trinscontate Waterway) to Clovely Hydrologic Restoration  AF-00007 CWW (Cell trinscontant Waterway) to Clovely Hydrologic Restoration  AF-00007 CWW (Cell trinscontant Waterway) to Clovely Hydrologic Restoration  AF-00007 CWW (Cell trinscontant Waterway) to Clovely Hydrologic Restoration  AF-00007 CWW (Cell trinscontant Waterway) to Clovely Hydrologic Restoration  AF-00007 CWW (Cell trinscontant Waterway) to Clovely Hydrologic Restoration  AF-00007 CWW (Cell trinscontant Waterway) to Clovely Hydrologic Restoration  AF-00007 CWW (Cell trinscontant Waterway) to Clovely Hydrologic Restoration  AF-00007 CWW (Cell trinscontant Waterway) to Clovely Hydrologic Restoration  AF-00007 CWW (Cell trinscontant Waterway) to Clovely Hydrologic Restoration  AF-00007 CWW (Cell trinscontant Waterway) to Clovely Hydrologic Restoration  AF-00007 CWW (Cell trinscontant Waterway) to Clovely Hydrologic Restoration  AF-00007 CWW (Cell trinscontant Waterway) to Clovely Hydrologic Restoration  AF-00007 CWW (Cell trinscontant Waterway) to Clovely Hydrologic Restoration  AF-00007 CWW (Cell trinscontant Waterway) to Clovely Hydrologic Restoration  AF-00007 CWW (Cell trinscontant Waterway) to Clovely Hydrologic Restoration  AF-00007 CWW (Cell trinscontant Waterway) to Clovely Hydrologic Restoration  AF-00007 CWW (Cell trinscontant Waterway) to Clovely Hydrologic Restoration  AF-00007 CWW (Cell trinscontant Restoration Waterway) to Clovely Hydrologic Restoration  AF-00007 CWW (Cell trinscontant Restoration Waterway) to Clovely Hydrologic Restoration  AF-00007 CWW (Cell trinscontant Restoration Hydrologic Restoration  AF-00007 CWW (Cell trinscontant Restoration Hydrologic Restoration Hydrologi	•	•				2020)
MA.0003						
BA00032						
MA.0027C   Bautatian Landwidge Storethie Protection   \$2,020   \$15,026   \$8,700   \$22,050   \$7,000   \$20,000   \$7,000   \$20,						
SACOSSA-22   Phytotogogic Restoration and Vegetable Pitenting in the Dea Allemands   \$114, 400   \$45,300   \$47,344   \$200,724   \$200,724   \$30,400   \$30,4	BA-0020					
Swamp	BA-0027-C		\$5,840	\$4,380	\$19,272	\$29,492
An.0036	BA-0034-2			<b>215</b> 000	0.7	****
An. O.	DV 003E					
BA00032   Little Lake Shoreline Protection Oedecated Dredgrip (Near Round Lake   \$3,344   \$5,840   \$15,840   \$1,840						
BACO036   Bourdard Basner Island Complex Project Pelican Island and Pass La Mer	BA-0037					
BA-0092   Messissipp River Sediment Delivery (Bayou Dupont)   \$98,100   \$8,670   \$14,625   \$76,625   \$113,756   \$84,000   \$20,000   \$14,000   \$84,000   \$20,000   \$14,000   \$18,840   \$114,625   \$36,625   \$113,935   \$84,000   \$20,000   \$14,000   \$18,840   \$174,625   \$36,016   \$174,625   \$36,000   \$14,000   \$18,840   \$174,625   \$36,016   \$174,625   \$36,000   \$14,00	BA-0038					•
BA-0042   Lake Herminge Marth Creation						
BA-0086   Bayou Dupont Marsh and Ridge Creation   \$18,843   \$17,428   \$30,016   \$74,297   \$44,0088   A04,0088   Carda Liard Marsh and Ridge Restoration   \$5,840   \$106,680   \$30,200   \$32,000   \$32,000   \$32,706   \$34,007   \$34,007   \$34,007   \$34,007   \$32,000						
BA-0068						
BA-01191 Bayou Canadro Chemier Marsh and Rigge Restoration   \$2,300 S8,000 S9,000 S9,0						
85.0013	BA-0164					
Section   Sect	BA-0173	Bayou Grande Chenier Marsh and Ridge Restoration	\$2,336	\$85,070	\$25,112	\$112,518
Section   South Lake Lery Shoreline and Marish Restoration   \$3,760   \$15,056   \$2,236   \$25,157   \$2,050   \$3,000   \$	BS-0003-A					
S-0004A   Cameron-Crocke Maintenance   \$30,368   \$44,344   \$44,334   \$41,319.136   \$52,001   \$2,202   \$2,002   \$3,003   \$2,200   \$2,200   \$3,003   \$2,200   \$2,200   \$3,003   \$2,200   \$2,200   \$3,003   \$2,200   \$2,200   \$3,003   \$2,200   \$2,200   \$3,003   \$2,200   \$2,200   \$3,003   \$2,200   \$2,200   \$3,003   \$3,003						
Second   S				, .,	. ,	
S-9017						
S-9020	CS-0017					
S-0022   Cilear Marias Bank Protection   \$2,920   \$2,920   \$2,920   \$3,920   \$4,92	CS-0020					1 /
Repiace Sabine Refuge Water Control Structures at Headquarters Canal, west Cove Canal, and Hog Island Gully   \$6,132   \$19,272   \$19,272   \$24,4676   \$30,204   Parry Ridge Shore Protection   \$16,936   \$2,920   \$22,776   \$22,076   \$22,776   \$30,202   \$22,776   \$30,202   \$32,276   \$30,202   \$32,2776   \$30,202   \$30,308   \$13,038   \$18,190   \$83,187   \$30,500   \$12,264   \$8,760   \$58,032   \$30,202   \$32,308   \$12,264   \$8,760   \$58,032   \$30,202   \$32,308   \$12,264   \$8,760   \$58,032   \$30,202   \$32,309   \$22,2776   \$30,202   \$32,200   \$32,200   \$32,200   \$32,207   \$32,2	CS-0021	Highway 384 Hydrologic Restoration				, .
CS-0023 West Cove Canal, and Hog Island Gully	CS-0022		\$2,920	\$2,920	\$2,920	\$8,760
Section	00 0000		CC 420	640.070	¢40.0 <del>7</del> 0	C44.070
Section   Sect						
Sabrice Refuge Marsh Creation, Increment 3						
Sabone Refuge Marsh Creation, Increment 4   \$37,008 \$12,264 \$8,760 \$55,027 \$6,0029 \$19.804 \$837,003 \$12,264 \$8,760 \$55,0029 \$19.804 \$804,000 \$2,920 \$2,920 \$15,038 \$2,920 \$3,003 \$1,000 \$100 \$1,000						
CS-0030   GIVW - Perry Ridge West Bank Stabilization   \$2.920   \$2.920   \$6.132   \$11.972   \$1.903   \$1.9272   \$1.636   \$2.920   \$3.9128   \$3.9128   \$2.903   \$3.9128   \$2.903   \$3.9128   \$2.903   \$2.920   \$1.264   \$12.264   \$2.744   \$1.264   \$2.744   \$1.264   \$2.744   \$1.264   \$2.920   \$2.920   \$1.264   \$1.264   \$2.744   \$1.264   \$2.744   \$1.264   \$2.744   \$1.264   \$2.920   \$2	CS-0028-4	Sabine Refuge Marsh Creation, Increment 4	\$37,008			\$58,032
S-0031   Holly Beach Sand Management   \$19,272   \$16,936   \$2,920   \$39,128	CS-0029					
CS-0032						
CS-0053   Kelso Bayou Marsh Creation & Teration   S0   \$0   \$2,920   \$2,920   \$2,920   \$2,005   \$2,005   \$3,006   \$88,87   \$2,000   \$3,008   \$3,0						
CS-0059   Oyster Bayou Marsh Creation & Terracing   \$14,900   \$29,950   \$43,966   \$88,867						
LA-0008   Bleengineered Oyster Reef Demonstration   \$21,608   \$2,920   \$0   \$74,528	CS-0059					
LA-0039	LA-0008	Bioengineered Oyster Reef Demonstration				
LA-0003 B   Coastwide Nutria Control Plan   \$152,920   \$152,920   \$458,780   \$152,920   \$458,780   \$152,920   \$458,780   \$17,236   \$19,856   \$2,920   \$40,012   \$17,236   \$19,856   \$2,920   \$40,012   \$17,236   \$19,856   \$2,920   \$40,012   \$17,031   \$17,032   \$31,038   \$31,038   \$79,099   \$152,001   \$17,022   \$31,038   \$31,038   \$79,099   \$152,001   \$17,022   \$31,038   \$31,038   \$79,099   \$152,001   \$17,001   \$17,001   \$17,001   \$17,001   \$12,264   \$0   \$28,574   \$15,002   \$29,001   \$12,264   \$0   \$28,574   \$15,001   \$12,264   \$0   \$28,574   \$15,001   \$12,264   \$0   \$28,574   \$15,001   \$12,264   \$0   \$28,574   \$15,001   \$12,264   \$0   \$28,574   \$15,002   \$30,206   \$29,038   \$74,267   \$15,001   \$15,001   \$15,001   \$15,001   \$15,001   \$15,001   \$15,001   \$12,264   \$15,002   \$30,206   \$29,038   \$74,267   \$15,001   \$15						
ME-0004 Freshwater Bayou Wetland (Phases 1 & 2) \$17,236 \$19,856 \$2,920 \$40,012 Mt-0011 Humble Canal Hydrologic Restoration \$17,022 \$31,038 \$31,038 \$79,099 ME-0013 Freshwater Bayou Bank Stabilization \$16,310 \$12,264 \$0 \$28,574 ME-0014 Pecan Island Terracing \$4,088 \$2,920 \$2,920 \$9,928 ME-0016 Freshwater Introduction South of Highway 82 \$15,022 \$30,206 \$2,920 \$9,928 ME-0018 Rockefeller Refuge Gulf Shoreline Stabilization \$0 \$11,680 \$65,844 \$77,524 ME-0019 Grand-White Lakes Landbridge Protection \$2,920 \$2,920 \$2,920 \$8,760 ME-0019 Grand-White Lakes Landbridge Protection \$2,920 \$2,920 \$2,920 \$8,760 ME-0022 South Grand Chenier Hydrologic Restoration Project \$7,008 \$16,936 \$16,936 \$16,936 \$40,880 ME-0022 South White Lake Shoreline Protection \$2,920 \$2,920 \$2,920 \$8,760 ME-0020 South Grand Chenier Hydrologic Restoration \$2,920 \$2,920 \$2,920 \$3,760 ME-0002 South Grand Chenier Hydrologic Restoration \$2,920 \$2,920 \$2,920 \$3,760 ME-0002 South West Bay Sediment Diversion \$2,920 \$176,440 \$14,800 \$193,960 MR-0006 Channel Armor Gap Crevasse \$7,008 \$0 \$0 \$7,008 MR-0009 Delta-Wide Crevasses \$7,008 \$0 \$0 \$7,008 MR-0009 Delta-Wide Crevasses \$7,008 \$0 \$0 \$7,008 MR-0009 Delta-Wide Crevasses \$186,747 \$8,760 \$2,336 \$197,843 PC-00016 Bayou Sauvage National Wildlife Refuge Hydrologic Restoration, Phase 1 \$2,920 \$2,920 \$3,760 \$2,220 \$3,760 MR-0002 Bayou Sauvage National Wildlife Refuge Hydrologic Restoration, Phase 2 \$11,680 \$2,920 \$2,920 \$3,760 PC-0016 Bayou Sauvage National Wildlife Refuge Hydrologic Restoration, Phase 2 \$11,680 \$2,920 \$2,920 \$3,760 PC-0022 Bayou Chevee Shoreline Protection \$8,760 \$2,336 \$7,592 \$18,688 PC-0022 Bayou Chevee Shoreline Protection \$4,672 \$8,760 \$2,336 \$15,768 PC-00104 Bayou Sauvage National Wildlife Refuge Hydrologic Restoration, Phase 2 \$11,680 \$2,920 \$2,920 \$3,760 \$18,600 \$2,336 \$15,760 \$2,336 \$15,760 \$2,336 \$15,760 \$2,336 \$15,760 \$2,336 \$15,760 \$2,336 \$15,760 \$2,336 \$15,760 \$2,336 \$15,760 \$2,336 \$15,760 \$2,336 \$15,760 \$2,336 \$15,760 \$2,336 \$15,760 \$2,336 \$15,760 \$2,336 \$15,760 \$2,336 \$15,760 \$2,336 \$15						
ME-0011 Humble Canal Hydrologic Restoration \$17,022 \$31,038 \$31,038 \$79,099 ME-0013 Freshwater Bayou Bank Stabilization \$16,310 \$12,284 \$0 \$28,574 ME-0014 Pecan Island Terracing \$4,088 \$2,920 \$2,920 \$9,928 ME-0016 Freshwater Introduction South of Highway 82 \$15,022 \$30,206 \$29,038 \$74,267 ME-0016 Freshwater Introduction South of Highway 82 \$15,022 \$30,206 \$29,038 \$74,267 ME-0019 Grand-White Lakes Landbridge Protection \$0 \$11,680 \$65,844 \$77,524 ME-0019 Grand-White Lakes Landbridge Protection \$2,920 \$2,920 \$3,290 \$3,760 ME-0020 South Grand Chenier Hydrologic Restoration Project \$7,008 \$16,936 \$16,936 \$40,880 ME-0022 South White Lake Shoreline Protection \$2,920 \$2,920 \$3,760 MR-0003 West Bay Sediment Diversion \$2,920 \$176,440 \$14,600 \$193,960 MR-0003 West Bay Sediment Diversion \$2,920 \$176,440 \$14,600 \$193,960 MR-0000 Channel Armor Gap Crevasse \$7,008 \$0 \$0 \$0 \$7,008 MR-0000 Delta-Wide Crevasses \$7,008 \$0 \$0 \$0 \$7,008 MR-0000 Delta-Wide Crevasses \$186,747 \$8,760 \$2,336 \$197,843 PC-0006 Fritchie Marsh Restoration Wildliffe Refuge Hydrologic Restoration, Phase 1 \$2,920 \$14,600 \$8,760 \$26,280 PC-0018 Bayou Sauvage National Wildliffe Refuge Hydrologic Restoration, Phase 2 \$11,680 \$2,920 \$2,920 \$17,520 PC-0024 Hopedale Hydrologic Restoration \$8,760 \$2,336 \$7,592 \$18,686 PC-0024 Hopedale Hydrologic Restoration \$8,760 \$2,336 \$7,592 \$18,686 PC-0018 Bayou Chevee Shoreline Protection \$8,760 \$2,336 \$7,592 \$18,686 PC-0018 Bayou Chevee Shoreline Protection \$4,63,507 \$2,336 \$3,760 \$3,230 \$3,760 \$3,230 \$3,760 \$3,230 \$3,760 \$3,230 \$3,760 \$3,230 \$3,						
ME-0013		,				
ME-0014   Pecan Island Terracing						
ME-0018         Rockefeller Retuge Gulf Shoreline Stabilization         \$0         \$11,600         \$65,844         \$77,524           ME-0019         Grand-White Lakes Landbridge Protection         \$2,920         \$2,920         \$2,920         \$2,920         \$3,708           ME-0022         South Grand Chenier Hydrologic Restoration Project         \$7,008         \$16,936         \$16,000         \$18,760         \$14,600         \$18,760         \$14,600         \$16,700         \$17,000         \$17,000         \$17,000         \$17,000         \$17,00	ME-0014					
ME-0019         Grand-White Lakes Landbridge Protection         \$2,920         \$2,920         \$2,920         \$2,920         \$8,760           ME-0020         South Grand Chenier Hydrologic Restoration Project         \$7,008         \$16,936         \$16,936         \$40,80           ME-0022         South White Lake Shoreline Protection         \$2,920	ME-0016	Freshwater Introduction South of Highway 82	\$15,022	\$30,206	\$29,038	\$74,267
ME-0020         South Grand Chenier Hydrologic Restoration Project         \$7,008         \$16,936         \$40,880           ME-0022         South White Lake Shoreline Protection         \$2,920         \$2,920         \$2,920         \$2,920         \$2,920         \$3,760           MR-0003         West Bay Sediment Diversion         \$2,920         \$176,440         \$14,600         \$193,960           MR-0006         Channel Armor Gap Crevasse         \$7,008         \$0         \$0         \$7,008           MR-0009         Delta-Wide Crevasses         \$186,747         \$8,760         \$2,336         \$197,843           PO-0016         Bayou Sauvage National Wildlife Refuge Hydrologic Restoration, Phase 1         \$2,920         \$14,600         \$8,760         \$26,280           PO-0018         Bayou Sauvage National Wildlife Refuge Hydrologic Restoration, Phase 2         \$11,680         \$2,920         \$2,920         \$17,520           PO-0022         Bayou Chevee Shoreline Protection         \$8,760         \$2,336         \$17,520         \$11,680           PO-0024         Hopedale Hydrologic Restoration         \$2,920         \$2,920         \$2,920         \$8,760           PO-0033         Goose Point/Point Platte Marsh Creation         \$43,507         \$2,336         \$43,784         \$89,627           TE-0	ME-0018					
ME-0022         South White Lake Shoreline Protection         \$2,920         \$2,920         \$2,920         \$8,760           MR-0003         West Bay Sediment Diversion         \$2,920         \$176,440         \$14,600         \$193,960           MR-0009         Chamel Armor Gap Crevasse         \$7,008         \$0         \$0         \$7,008           MR-0009         Delta-Wide Crevasses         \$186,747         \$8,760         \$2,336         \$197,843           PO-0006         Fritchie Marsh Restoration         \$2,920         \$14,600         \$8,760         \$26,280           PO-0018         Bayou Sauvage National Wildlife Refuge Hydrologic Restoration, Phase 1         \$2,920         \$2,920         \$2,920         \$17,520           PO-0018         Bayou Chevee Shoreline Protection         \$8,760         \$2,336         \$7,592         \$11,680         \$2,920         \$2,920         \$17,520           PO-0022         Bayou Chevee Shoreline Protection         \$8,760         \$2,336         \$7,592         \$18,688           PO-0033         Goose Point/Point Platte Marsh Creation         \$4,672         \$8,760         \$2,336         \$15,768           PO-0104         Bayou Bonfouca Marsh Creation         \$43,507         \$2,336         \$43,784         \$89,627           TE-0020						
MR-0003         West Bay Sediment Diversion         \$2,920         \$176,440         \$14,600         \$193,960           MR-0006         Channel Armor Gap Crevasse         \$7,008         \$0         \$0         \$7,008           MR-0009         Delta-Wide Crevasses         \$186,747         \$8,760         \$2,336         \$197,843           PO-0006         Fritchie Marsh Restoration         \$2,920         \$14,600         \$8,760         \$26,280           PO-0016         Bayou Sauvage National Wildlife Refuge Hydrologic Restoration, Phase 1         \$2,920         \$3,60         \$2,920         \$						
MR-0006         Channel Armor Gap Crevasse         \$7,008         \$0         \$7,008           MR-0009         Delta-Wide Crevasses         \$186,747         \$8,760         \$2,336         \$197,843           PO-0016         Firtichie Marsh Restoration         \$2,920         \$14,600         \$8,760         \$26,280           PO-0016         Bayou Sauvage National Wildlife Refuge Hydrologic Restoration, Phase 1         \$2,920         \$2,336         \$15,768         \$2,00						
Delta-Wide Crevasses   \$186,747   \$8,760   \$2,336   \$197,843	MR-0006					
PO-0016   Bayou Sauvage National Wildlife Refuge Hydrologic Restoration, Phase 1   \$2,920   \$2,920   \$2,920   \$1,7520	MR-0009		\$186,747	\$8,760	\$2,336	\$197,843
PO-0018   Bayou Sauvage National Wildlife Refuge Hydrologic Restoration, Phase 2   \$11,680   \$2,920   \$2,920   \$17,520   \$18,688   PO-0024   Hopedale Hydrologic Restoration   \$2,920   \$2,920   \$2,920   \$8,760   \$2,336   \$7,592   \$18,688   PO-0024   Hopedale Hydrologic Restoration   \$2,920   \$2,920   \$2,920   \$8,760   \$2,336   \$3,760   \$2,336   \$3,760   \$2,336   \$3,760   \$2,336   \$3,760   \$2,336   \$3,760   \$2,336   \$3,760   \$2,336   \$3,760   \$2,336   \$3,784   \$89,627   \$2,000   \$2,00	PO-0006				. ,	
PO-0022   Bayou Chevee Shoreline Protection   \$8,760   \$2,336   \$7,592   \$18,688				. ,		
PO-0024   Hopedale Hydrologic Restoration   \$2,920   \$2,920   \$2,920   \$8,760   PO-0033   Goose Point/Point Platte Marsh Creation   \$44,672   \$8,760   \$2,336   \$15,768   PO-0104   Bayou Bonfouca Marsh Creation   \$43,507   \$2,336   \$43,784   \$89,627   TE-0020   Isle Dernieres Restoration East Island   \$16,352   \$20,440   \$20,440   \$57,232   TE-0022   Point Au Fer Canal Plugs   \$2,336   \$2,278   \$2,290   \$6,903   TE-0026   Island   \$10,512   \$2,920   \$2,920   \$16,352   TE-0026   Island   \$10,512   \$2,920   \$2,920   \$16,352   TE-0028   Brady Canaly Hydrologic Restoration Point Au Fer Island   \$10,512   \$2,920   \$2,920   \$16,352   TE-0034   Penchant Basin Natural Resources Plan, Increment 1   \$167,520   \$67,520   \$5,840   \$240,880   TE-0037   New Cut Dune/Marsh Restoration   \$11,680   \$2,920   \$2,920   \$17,520   TE-0040   Timbalier Island Dune/Marsh Restoration   \$11,680   \$2,920   \$2,920   \$17,520   TE-0044   North Lake Mechant Landbridge Restoration   \$17,520   \$17,520   \$554   \$35,624   TE-0046   West Lake Boudreaux Shoreline Protection and Marsh Creation   \$7,125   \$7,125   \$7,125   \$21,374   TE-0048   Raccoon Island Shoreline Protection and Marsh Creation   \$68,760   \$48,760   \$8,760   \$126,280   TE-0050   Whiskey Island Back Barrier Marsh Creation   \$14,016   \$5,840   \$5,840   \$5,840   \$25,696   TE-0052   West Belle Pass Barrier Headland Restoration   \$14,016   \$5,840   \$5,840   \$17,520   TE-0072   Lost Lake Marsh Creation and Hydrologic Restoration   \$14,016   \$49,780   \$62,276   \$126,072   TV-0004   Cote Blanche Hydrologic Restoration   \$16,936   \$2,920   \$0   \$19,856   To-0004   To-0004   Cote Blanche Hydrologic Restoration   \$14,016   \$49,780   \$62,276   \$126,072   TV-0004   Cote Blanche Hydrologic Restoration   \$16,936   \$2,920   \$0   \$19,856   TV-0004   Cote Blanche Hydrologic Restoration   \$16,936   \$2,920   \$0   \$19,856   TV-0004   Cote Blanche Hydrologic Restoration   \$16,936   \$2,920   \$0   \$19,856   TV-0004   Cote Blanche Hydrologic Restoration   \$16,936   \$2,920   \$0   \$19,856   TV-0004   Cote B		, ,				
PO-0033   Goose Point/Point Platte Marsh Creation   \$4,672   \$8,760   \$2,336   \$15,768   PO-0104   Bayou Bonfouca Marsh Creation   \$43,507   \$2,336   \$43,784   \$89,627   TE-0020   Isle Dernieres Restoration East Island   \$16,352   \$20,440   \$20,440   \$57,232   TE-0022   Point Au Fer Canal Plugs   \$2,336   \$2,278   \$2,290   \$6,903   Lake Chapeau Sediment Input and Hydrologic Restoration, Point Au Fer   Island   \$10,512   \$2,920   \$2,920   \$16,352   TE-0028   Brady Canaly Hydrologic Restoration   \$38,688   \$15,840   \$0   \$54,528   TE-0034   Penchant Basin Natural Resources Plan, Increment 1   \$167,520   \$67,520   \$5,840   \$240,880   TE-0037   New Cut Dune/Marsh Restoration   \$11,680   \$2,920   \$17,520   TE-0040   Timbalier Island Dune/Marsh Restoration   \$17,520   \$17,520   \$584   \$35,624   TE-0044   North Lake Mechant Landbridge Restoration   \$3,504   \$31,700   \$29,200   \$64,404   TE-0046   West Lake Boudreaux Shoreline Protection and Marsh Creation   \$68,760   \$48,760   \$8,760   \$126,280   TE-0050   Whiskey Island Back Barrier Marsh Creation   \$14,016   \$5,840   \$5,840   \$25,696   TE-0052   West Belle Pass Barrier Headland Restoration   \$14,016   \$5,840   \$5,840   \$17,520   TE-0072   Lost Lake Marsh Creation and Hydrologic Restoration   \$14,016   \$49,780   \$62,276   \$126,072   TV-0004   Cote Blanche Hydrologic Restoration   \$14,016   \$49,780   \$62,276   \$126,072   TV-0004   Cote Blanche Hydrologic Restoration   \$14,016   \$49,780   \$62,276   \$126,072   TV-0004   Cote Blanche Hydrologic Restoration   \$14,016   \$49,780   \$62,276   \$126,072   TV-0004   Cote Blanche Hydrologic Restoration   \$14,016   \$49,780   \$62,276   \$126,072   TV-0004   Cote Blanche Hydrologic Restoration   \$14,016   \$49,780   \$62,276   \$126,072   TV-0004   Cote Blanche Hydrologic Restoration   \$16,936   \$2,920   \$0   \$19,856   TV-0004   Cote Blanche Hydrologic Restoration   \$16,936   \$2,920   \$0   \$19,856   TV-0004   Cote Blanche Hydrologic Restoration   \$16,936   \$2,920   \$0   \$19,856   TV-0004   Cote Blanche Hydrologic Restoration   \$16,936						
PO-0104   Bayou Bonfouca Marsh Creation   \$43,507   \$2,336   \$43,784   \$89,627						
TE-0020   Isle Dernieres Restoration East Island   \$16,352   \$20,440   \$20,440   \$57,232						
Lake Chapeau Sediment Input and Hydrologic Restoration, Point Au Fer   \$10,512   \$2,920   \$2,920   \$16,352   \$10,000   \$10,0	TE-0020					
TE-0026         Island         \$10,512         \$2,920         \$2,920         \$16,352           TE-0028         Brady Canaly Hydrologic Restoration         \$38,688         \$15,840         \$0         \$54,528           TE-0034         Penchant Basin Natural Resources Plan, Increment 1         \$167,520         \$67,520         \$5,840         \$240,880           TE-0037         New Cut Dune/Marsh Restoration         \$11,680         \$2,920         \$2,920         \$17,520           TE-0040         Timbalier Island Dune/Marsh Restoration         \$17,520         \$17,520         \$584         \$35,624           TE-0044         North Lake Mechant Landbridge Restoration         \$3,504         \$31,700         \$29,200         \$64,404           TE-0046         West Lake Boudreaux Shoreline Protection and Marsh Creation         \$7,125         \$7,125         \$7,125         \$21,374           TE-0048         Raccoon Island Shoreline Protection/Marsh Creation         \$68,760         \$48,760         \$8,760         \$126,280           TE-0050         Whiskey Island Back Barrier Marsh Creation         \$14,016         \$5,840         \$5,840         \$25,696           TE-0052         West Belle Pass Barrier Headland Restoration         \$5,840         \$5,840         \$5,840         \$17,520           TE-0072         Lo	TE-0022		\$2,336	\$2,278	\$2,290	\$6,903
TE-0028         Brady Canaly Hydrologic Restoration         \$38,688         \$15,840         \$0         \$54,528           TE-0034         Penchant Basin Natural Resources Plan, Increment 1         \$167,520         \$67,520         \$5,840         \$240,880           TE-0037         New Cut Dune/Marsh Restoration         \$11,680         \$2,920         \$17,520           TE-0040         Timbalier Island Dune/Marsh Restoration         \$17,520         \$17,520         \$584         \$35,624           TE-0044         North Lake Mechant Landbridge Restoration         \$3,504         \$31,700         \$29,200         \$64,404           TE-0046         West Lake Boudreaux Shoreline Protection and Marsh Creation         \$7,125         \$7,125         \$7,125         \$21,374           TE-0048         Raccoon Island Shoreline Protection/Marsh Creation         \$68,760         \$48,760         \$8,760         \$126,280           TE-0050         Whiskey Island Back Barrier Marsh Creation         \$14,016         \$5,840         \$5,840         \$25,696           TE-0052         West Belle Pass Barrier Headland Restoration         \$5,840         \$5,840         \$5,840         \$17,520           TE-0072         Lost Lake Marsh Creation and Hydrologic Restoration         \$14,016         \$49,780         \$62,276         \$126,072           TV-						
TE-0034         Penchant Basin Natural Resources Plan, Increment 1         \$167,520         \$67,520         \$5,840         \$240,880           TE-0037         New Cut Dune/Marsh Restoration         \$11,680         \$2,920         \$2,920         \$17,520           TE-0040         Timbalier Island Dune/Marsh Restoration         \$17,520         \$17,520         \$584         \$35,624           TE-0044         North Lake Mechant Landbridge Restoration         \$3,504         \$31,700         \$29,200         \$64,404           TE-0046         West Lake Boudreaux Shoreline Protection and Marsh Creation         \$7,125         \$7,125         \$7,125         \$21,374           TE-0048         Raccoon Island Shoreline Protection/Marsh Creation         \$68,760         \$48,760         \$8,760         \$126,280           TE-0050         Whiskey Island Back Barrier Marsh Creation         \$14,016         \$5,840         \$5,840         \$25,696           TE-0052         West Belle Pass Barrier Headland Restoration         \$5,840         \$5,840         \$5,840         \$17,520           TE-0072         Lost Lake Marsh Creation and Hydrologic Restoration         \$14,016         \$49,780         \$62,276         \$126,072           TV-0004         Cote Blanche Hydrologic Restoration         \$16,936         \$2,920         \$0         \$19,856  <						
TE-0037         New Cut Dune/Marsh Restoration         \$11,680         \$2,920         \$2,920         \$17,520           TE-0040         Timbalier Island Dune/Marsh Restoration         \$17,520         \$17,520         \$584         \$35,624           TE-0044         North Lake Mechant Landbridge Restoration         \$3,504         \$31,700         \$29,200         \$64,404           TE-0046         West Lake Boudreaux Shoreline Protection and Marsh Creation         \$7,125         \$7,125         \$7,125         \$21,374           TE-0048         Raccoon Island Shoreline Protection/Marsh Creation         \$68,760         \$48,760         \$126,280           TE-0050         Whiskey Island Back Barrier Marsh Creation         \$14,016         \$5,840         \$5,840         \$25,696           TE-0052         West Belle Pass Barrier Headland Restoration         \$5,840         \$5,840         \$5,840         \$17,520           TE-0072         Lost Lake Marsh Creation and Hydrologic Restoration         \$14,016         \$49,780         \$62,276         \$126,072           TV-0004         Cote Blanche Hydrologic Restoration         \$16,936         \$2,920         \$0         \$19,856					· ·	
TE-0040         Timbalier Island Dune/Marsh Restoration         \$17,520         \$17,520         \$584         \$35,624           TE-0044         North Lake Mechant Landbridge Restoration         \$3,504         \$31,700         \$29,200         \$64,404           TE-0046         West Lake Boudreaux Shoreline Protection and Marsh Creation         \$7,125         \$7,125         \$7,125         \$21,374           TE-0048         Raccoon Island Shoreline Protection/Marsh Creation         \$68,760         \$48,760         \$126,280           TE-0050         Whiskey Island Back Barrier Marsh Creation         \$14,016         \$5,840         \$5,840         \$25,696           TE-0052         West Belle Pass Barrier Headland Restoration         \$5,840         \$5,840         \$17,520           TE-0072         Lost Lake Marsh Creation and Hydrologic Restoration         \$14,016         \$49,780         \$62,276         \$126,072           TV-0004         Cote Blanche Hydrologic Restoration         \$16,936         \$2,920         \$0         \$19,856						
TE-0044         North Lake Mechant Landbridge Restoration         \$3,504         \$31,700         \$29,200         \$64,404           TE-0046         West Lake Boudreaux Shoreline Protection and Marsh Creation         \$7,125         \$7,125         \$7,125         \$21,374           TE-0048         Raccoon Island Shoreline Protection/Marsh Creation         \$68,760         \$48,760         \$8,760         \$126,280           TE-0050         Whiskey Island Back Barrier Marsh Creation         \$14,016         \$5,840         \$5,840         \$25,696           TE-0052         West Belle Pass Barrier Headland Restoration         \$5,840         \$5,840         \$17,520           TE-0072         Lost Lake Marsh Creation and Hydrologic Restoration         \$14,016         \$49,780         \$62,276         \$126,072           TV-0004         Cote Blanche Hydrologic Restoration         \$16,936         \$2,920         \$0         \$19,856	TE-0037					
TE-0046         West Lake Boudreaux Shoreline Protection and Marsh Creation         \$7,125         \$7,125         \$21,374           TE-0048         Raccoon Island Shoreline Protection/Marsh Creation         \$68,760         \$48,760         \$8,760         \$126,280           TE-0050         Whiskey Island Back Barrier Marsh Creation         \$14,016         \$5,840         \$5,840         \$25,696           TE-0052         West Belle Pass Barrier Headland Restoration         \$5,840         \$5,840         \$17,520           TE-0072         Lost Lake Marsh Creation and Hydrologic Restoration         \$14,016         \$49,780         \$62,276         \$126,072           TV-0004         Cote Blanche Hydrologic Restoration         \$16,936         \$2,920         \$0         \$19,856	TE-0044					
TE-0050         Whiskey Island Back Barrier Marsh Creation         \$14,016         \$5,840         \$5,840         \$25,696           TE-0052         West Belle Pass Barrier Headland Restoration         \$5,840         \$5,840         \$5,840         \$17,520           TE-0072         Lost Lake Marsh Creation and Hydrologic Restoration         \$14,016         \$49,780         \$62,276         \$126,072           TV-0004         Cote Blanche Hydrologic Restoration         \$16,936         \$2,920         \$0         \$19,856	TE-0046	West Lake Boudreaux Shoreline Protection and Marsh Creation	\$7,125	\$7,125	\$7,125	\$21,374
TE-0052         West Belle Pass Barrier Headland Restoration         \$5,840         \$5,840         \$5,840         \$17,520           TE-0072         Lost Lake Marsh Creation and Hydrologic Restoration         \$14,016         \$49,780         \$62,276         \$126,072           TV-0004         Cote Blanche Hydrologic Restoration         \$16,936         \$2,920         \$0         \$19,856	TE-0048					
TE-0072         Lost Lake Marsh Creation and Hydrologic Restoration         \$14,016         \$49,780         \$62,276         \$126,072           TV-0004         Cote Blanche Hydrologic Restoration         \$16,936         \$2,920         \$0         \$19,856						
TV-0004 Cote Blanche Hydrologic Restoration \$16,936 \$2,920 \$0 \$19,856						
	TV-0012	Little Vermilion Bay Sediment Trapping	\$16,936	\$2,920	\$0	\$19,856

Table B-6. CWPPRA Monitoring Projected Expenditures

Project No.	Project Name	FY 2018	FY 2019	FY 2020	Project Total (FY 2018 - FY 2020)
TV-0013-A	Oaks/Avery Canal Hydrologic Restoration, Increment 1	\$2,920	\$8,968	\$16,936	\$28,824
TV-0014	Marsh Island Hydrologic Restoration	\$16,936	\$6,966	\$20,982	\$44,884
TV-0015	Sediment Trapping at "The Jaws"	\$20,156	\$16,936	\$2,920	\$40,012
TV-0017	Lake Portage Land Bridge	\$2,920	\$16,936	\$16,936	\$36,792
TV-0018	Four Mile Canal Terracing and Sediment Trapping	\$2,920	\$2,920	\$2,920	\$8,760
TV-0021	East Marsh Island Marsh Creation	\$22,458	\$11,362	\$12,264	\$46,085
TV-0063	Coles Bayou Marsh Restoration	\$17,016	\$8,760	\$28,864	\$54,640
CRMS	Coastwide Reference Monitoring System	\$8,862,955	\$8,920,075	\$8,928,835	\$26,711,866
	Total Expenditures	\$10,800,264	\$10,551,145	\$10,271,445	\$31,622,854
	Federal CWPPRA Monitoring Expenditures		\$8,968,474	\$8,730,728	\$26,879,426
	Trust Fund CWPPRA Monitoring Expenditures	\$1,620,040	\$1,582,672	\$1,540,717	\$4,743,428

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

Project ID	Project Name	FY 2018	FY 2019	FY 2020	Project Total (FY 2018 - FY 2020)
BA-0001	Davis Pond Freshwater Diversion <sup>1</sup>	\$611,284	\$653,999	\$693,455	\$1,958,738
BS-0008	Caernarvon Freshwater Diversion <sup>1</sup>	\$501,334	\$536,352	\$567,572	\$1,605,257
	Total Expenditures	\$1,112,618	\$1,190,351	\$1,261,027	\$3,563,995
	Federal WRDA Monitoring Expenditures	\$834,463	\$892,763	\$945,770	\$2,672,996
	NFWF WRDA Monitoring Expenditures (See Table B-13)	\$253,422	\$253,422	\$253,422	\$760,266
	State WRDA Monitoring Expenditures	\$24,732	\$44,166	\$61,835	\$130,733

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

Berm to Barrier F BA-0040		FY 2018	FY 2019	FY 2020	(FY 2018 - FY 2020)
BA-0040					
	Riverine Sand Mining/Scofield Island Restoration	\$84,372	\$5,840	\$5,840	\$96,052
BA-0110	Shell Island East	\$14,600	\$8,760	\$15,840	\$39,200
NFWF Projects					
	Caminada Headland Beach and Dune Restoration Increment 2	\$785,250	\$656,500	\$268,000	\$1,709,750
NRDA Projects					
	Shell Island West	\$154,961	\$134,680	\$26,420	\$316,061
	NRDA Lake Hermitage Marsh Creation Increment 2	\$29,016	\$60,440	\$29,016	\$118,472
	NRDA Cheniere Ronquille	\$151,709	\$114,040	\$24,080	\$289,829
TE-0100	NRDA Caillou Lake Headlands	\$355,479	\$165,117	\$163,213	\$683,809
Surplus Projects					
	Caminada Headland Restoration	\$109,016	\$126,508	\$0	\$235,524
USACE Mitigation	n Projects				
BA-0109	HSDRRS Mitigation - WBV	\$7,300	\$7,300	\$7,300	\$21,900
BA-0154	Previously Authorized Mitigation - WBV	\$7,300	\$7,300	\$7,300	\$21,900
PO-0038SF	MRGO Closure Structure	\$7,300	\$7,300	\$7,300	\$21,900
PO-0093	MRGO - Lake Borgne -Bayou Dupre Segment	\$7,300	\$7,300	\$7,300	\$21,900
PO-0094	MRGO - Lake Borgne -Bayou Bienvenue Segment	\$7,300	\$7,300	\$7,300	\$21,900
PO-0095	MRGO - Lake Borgne -Shell Beach Segment	\$7,300	\$7,300	\$7,300	\$21,900
	HSDRRS Mitigation - LPV	\$7,300	\$7,300	\$7,300	\$21,900
	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			· , , , ,		
	Bayou Sorrel, Frog Lake	\$7,008	\$7,008	\$7,008	\$21,024
	OPA Lake Washington/Mendicant	\$7,008	\$7,008	\$7.008	\$21,024
	LOSCO- EML	\$31,680	\$21,680	\$21,680	\$75,040
	OPA Calcasieu River	\$9,344	\$9,344	\$9,344	\$28.032
LA-0278	General Oil Spill- LOSCO	\$29,200	\$29,200	\$29,200	\$87,600
	OPA Joseph's Bayou I & II	\$7,008	\$7,008	\$7.008	\$21,024
	OPA Gretna/Mississippi River	\$7,008	\$7,008	\$7,008	\$21,024
	OPA Dune Energy - Garden Island Bay	\$7,008	\$7.008	\$7,008	\$21,024
	OPA Hilcorp Bay St. Elaine	\$7,008	\$7,008	\$7,008	\$21,024
State-Only Project		<b>.</b> ,,,,,,,,	4.,000	41,000	+=-,-=
	Hydrologic Restoration of the Amite River Diversion Canal	\$52,984	\$66,087	\$44,795	\$163,866
	Living Shoreline	\$59,084	\$37,916	\$65,379	\$162,379
PO-0152	Lake Borgne and MRGO Shoreline Protection	\$7,300	\$7,300	\$7,300	\$21,900
. 0 0.02	Total Expenditures	\$1,981,744	\$1,551,160	\$817,855	\$4,166,479
	Berm to Barrier Expenditures	\$98,972	\$1,551,160	\$21,680	\$135,252
	NFWF Expenditures	\$785,250	\$656,500	\$268,000	\$1,709,750
	NRDA Expenditures	\$691,166	\$474,277	\$242,729	\$1,709,750
		\$109,016			\$1,408,171 \$235,524
	Surplus Expenditures		\$126,508	\$0	
	LOSCO Expenditures Trust Fund Expenditures	\$112,272 \$185,068	\$102,272 \$177,003	\$102,272 \$183,174	\$316,816 \$545,245

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

Project No.	Project Name	FY 2018	FY 2019	FY 2020	Project Total (FY 2018 - FY 2020)
AT-0002	Atchafalaya Sediment Delivery	\$8,760	\$4,672	\$2,336	\$15,768
AT-0003	Big Island Mining	\$8,760	\$4,672	\$2,336	\$15,768
BA-0002	GIWW (Gulf Intracoastal Waterway) to Clovelly Hydrologic Restoration	\$1,679,726	\$22,534	\$22,534	\$1,724,794
BA-0003-C BA-0020	Naomi Outfall Management	\$21,740	\$21,740	\$21,740	\$65,220 \$47,520
BA-0020 BA-0023	Jonathan Davis Wetland Protection Barataria Bay Waterway West Side Shoreline Protection	\$5,840 \$5,840	\$5,840 \$5,840	\$5,840 \$5,840	\$17,520 \$17,520
BA-0026	Barataria Bay Waterway West Side Shoreline Protection	\$88,764		\$5,840	\$2,865,044
BA-0027	Barataria Basin Landbridge Shoreline Protection, Phases 1 and 2	\$2,920	\$2,336	\$2,336	\$7,592
BA-0027-C	Barataria Basin Landbridge Shoreline Protection, Phase 3	\$2,920	\$2,336	\$2,336	\$7,592
BA-0027-D	Barataria Basin Landbridge Shoreline Protection Phase 4	\$2,920	\$2,336	\$2,336	\$7,592
BA-0034-2	Hydrologic Restoration and Vegetative Plantings in the des Allemands Swamp	\$3,650	\$2,920	\$2,920	\$9,490
BA-0035	Pass Chaland to Grand Bayou Pass Barrier Shoreline Restoration	\$9,402	\$9,461	\$9,578	\$28,441
BA-0037	Little Lake Shoreline Protection/ Dedicated Dredging Near Round Lake	\$749,778	\$5,490	\$5,490	\$760,757
BA-0038 BA-0039	Pelican Island and Pass La Mer to Chaland Pass Restoration  Bayou Dupont Sediment Delivery System	\$9,811 \$6,140	\$9,928 \$6,140	\$10,045 \$6,140	\$29,784 \$18,420
BA-0039	South Shore of the Pen Shoreline Protection and Marsh Creation	\$5,840	\$133,176	\$5,840	\$144,856
BA-0042	Lake Hermitage Marsh Creation	\$11,680	\$11,797	\$11,972	\$35,449
BA-0048	Bayou Dupont Marsh and Ridge Creation	\$86,873	\$136,473	\$9,928	\$233,275
BA-0068	Grand Liard Marsh and Ridge Restoration	\$80,911	\$80,911	\$9,928	\$171,751
BA-0164	Bayou Dupont Sediment Delivery- Marsh Creation 3	\$91,856	\$9,928	\$99,856	\$201,640
BA-0173	Bayou Grande Chenier Marsh and Ridge Restoration	\$0	\$70,440		\$140,880
BS-0003-A	Caernaryon Diversion Outfall Management	\$41,055	\$42,323	\$42,323	\$125,701
BS-0011	Delta Management at Fort St. Philip	\$5,840 \$5,840	\$5,840 \$5,840	\$5,840 \$5,840	\$17,520 \$17,520
BS-0016 BS-0024	South Lake Lery Shoreline and Marsh Restoration Terracing and Marsh Creation South of Big Mar	\$5,840 \$0	\$5,840 \$13,640	\$5,840 \$374,693	\$17,520 \$388,333
CS-0024	Cameron-Creole Maintenance	\$220,840	\$13,640 \$102,628	\$374,693 \$102,803	\$388,333 \$426,271
CS-0004-A CS-0011-B	Sweet Lake/Willow Lake Hydrologic Restoration	\$2,453	\$2,628	\$2,803	\$7,884
CS-0017	Cameron Creole Plugs	\$2,453	\$0		\$2,453
CS-0018	Sabine National Wildlife Refuge Erosion Protection	\$2,453	\$2,628	\$2,803	\$7,884
CS-0020	East Mud Lake Marsh Management	\$536,517	\$2,628	\$2,803	\$541,948
CS-0021	Highway 384 Hydrologic Restoration	\$22,920	\$23,095	\$22,803	\$68,818
CS-0022	Clear Marais Bank Protection	\$82,453	\$2,628	\$2,803	\$87,884
CS-0023	Replace Sabine Refuge Water Control Structures at Headquarters Canal, West Cove Canal, and Hog Island Gully	\$37,453	\$37,628	\$40,803	\$115,884
CS-0024	Perry Ridge Shore Protection	\$2,453	\$2,628	\$2,803	\$7,884
CS-0027	Black Bayou Hydrologic Restoration	\$5,659,760	\$12,628	\$12,803	\$5,685,191
CS-0028-2 CS-0028-4	Sabine Refuge Marsh Creation, Increment 2 Sabine Refuge Marsh Creation, Increment 4	\$376,008 \$69,340	\$71,628 \$2,628	\$376,008 \$2,803	\$823,644 \$74,771
CS-0020-4 CS-0028-5	Sabine Refuge Marsh Creation, Increment 5	\$69,340	\$2,628	\$2,803	\$74,771
CS-0029	Black Bayou Culverts Hydrologic Restoration	\$27,008	\$27,300	\$27,592	\$81,900
CS-0030	GIWW - Perry Ridge West Bank Stabilization	\$347,512	\$2,628	\$2,803	\$352,943
CS-0031	Holly Beach Sand Management	\$37,008	\$2,628	\$2,803	\$42,439
CS-0032	East Sabine Lake Hydrologic Restoration	\$2,453	\$2,628	\$2,803	\$7,884
CS-0049	Cameron-Creole Freshwater Introduction - Vegetative Plantings	\$424,600	\$59,052	\$59,344	\$542,996
CS-0054 CS-0059	Cameron-Creole Watershed Grand Bayou Marsh Creation	\$131,650 \$90,614	\$2,628 \$2,628	\$2,803 \$2,803	\$137,081 \$96,045
LA-0003-B	Oyster Bayou Marsh Creation & Terracing  Coastwide Nutria Control Program	\$3,305,016			\$9,936,494
LA-0016	Non-Rock Alternatives for Shoreline Protection Demonstration Project	\$2,453	\$2,628	\$2,803	\$7,884
LA-0039	Coastwide Plantings Program	\$8,760	\$8,760	\$11,680	\$29,200
ME-0004	Freshwater Bayou Wetland (Phases 1 & 2)	\$2,453	\$2,628	\$2,803	\$7,884
ME-0009	Cameron Prairie National Wildlife Refuge Shoreline Protection	\$2,453	\$2,628		\$7,884
ME-0011	Humble Canal Hydrologic Restoration	\$17,453	\$17,628	\$17,803	\$52,884
ME-0013	Freshwater Bayou Bank Stabilization	\$2,453	\$2,628	\$2,803	\$7,884
ME-0014 ME-0016	Pecan Island Terracing Freshwater Introduction South of Highway 82	\$2,453 \$12,453	\$2,628 \$12,628	\$2,803 \$12,803	\$7,884 \$37,884
ME-0018	Rockefeller Refuge Gulf Shoreline Stabilization	\$12,453	\$2,628	\$2,803	\$7,884
ME-0019	Grand-White Lakes Landbridge Protection	\$2,453	\$2,628	\$2,803	\$7,884
ME-0020	South Grand Chenier Hydrologic Restoration Project	\$568,378	\$2,628	\$2,803	\$573,809
ME-0021	Grand Lake Shoreline Protection (CIAP + Tebo Point)	\$12,453	\$12,628	\$12,803	\$37,884
ME-0022	South White Lake Shoreline Protection	\$2,453	\$2,628	\$2,803	\$7,884
MR-0009	Delta Wide Crevasses	\$6,140	\$6,140	\$6,140	\$18,420
PO-0006	Fritchie Marsh Restoration	\$5,840	\$5,840	\$5,840	\$17,520
PO-0016 PO-0018	Bayou Sauvage National Wildlife Refuge Hydrologic Restoration, Phase 1 Bayou Sauvage National Wildlife Refuge Hydrologic Restoration, Phase 2	\$26,960 \$24,570	\$27,596 \$25,141	\$27,596 \$25,141	\$82,152 \$74,852
PO-0018	Bayou Chevee Shoreline Protection	\$19,622	\$14.016	\$14,016	\$47,654
PO-0022 PO-0024	Hopedale Hydrologic Restoration	\$28,870	\$28,976	\$28,976	\$86,822
PO-0030	Lake Borgne Shoreline Protection	\$84,060	\$84,060	\$6,140	\$174,260
PO-0033	Goose Point/Point Platte Marsh Creation	\$83,176	\$5,840	\$5,840	\$94,856
PO-0075	Labranche East Marsh Creation	\$0	\$4,088	\$4,088	\$8,176
PO-0104	Bayou Bonfouca Marsh Creation Project	\$22,008	\$7,008	\$22,008	\$51,024
PO-0133	Labranche Central Marsh Creation	\$0	\$4,088	\$4,088	\$8,176
TE-0022	Point au Fer Canal Plugs	\$36,213 \$5,400	\$7,242 \$2,336	\$7,242 \$2,336	\$50,696 \$10,163
TE-0023 (USACE) TE-0026	West Belle Pass Headland Restoration  Lake Chapeau Sediment Input and Hydrologic Restoration, Point Au Fer Island	\$5,490 \$471,432	\$2,336 \$7,242	\$2,336 \$7,242	\$10,162 \$485,915
TE-0028	Brady Canal Hydrologic Rest.	\$83,680	\$38,060	\$38,060	\$159,800
TE-0026	Penchant Basin Natural Resources Plan Increment 1	\$102,008	\$5,490	\$61,680	\$169,178
TE-0037	New Cut Dune and Marsh Restoration	\$138,760	\$17,520	\$5,490	\$161,770
1 = 0001			\$2,453	\$2,453	

<sup>1-</sup> Monitoring expenditures partially funded with NFWF Adaptive Management funds (See Table B-13).

Notes:
1- Monitoring expenditures funded with Berm to Barrier funds.
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 2018	FY 2019	FY 2020	Project Total (FY 2018 - FY 2020)
TE-0043	GIWW Bank Restoration of Critical Areas in Terrebonne	\$42,928	\$5,490	\$5,490	\$53,907
TE-0044	North Lake Mechant Landbridge Restoration	\$1,545,040	\$5,490	\$5,490	\$1,556,019
TE-0045	Terrebonne Bay Shore Protection Demonstration	\$13,504	\$0	\$0	\$13,504
TE-0046	West Lake Boudreaux Shoreline Protection and Marsh Creation	\$17,300	\$5,490	\$5,490	\$28,279
TE-0048	Raccoon Island Shoreline Protection/Marsh Creation	\$2,210,772	\$17,520	\$5,490	\$2,233,781
TE-0050	Whiskey Island Back Barrier Marsh Creation	\$4,380	\$5,490	\$5,490	\$15,359
TE-0052	West Belle Pass Barrier Headland Restoration	\$453,330	\$5,490	\$5,490	\$464,309
TE-0072	Lost Lake Marsh Creation and Hydrologic Restoration	\$37,300	\$5,490	\$5,490	\$48,280
TV-0003	Vermilion River Cutoff Bank Protection	\$2,453	\$2,628	\$2,803	\$7,884
TV-0004	Cote Blanche Hydrologic Restoration	\$12,453	\$12,628	\$12,803	\$37,884
TV-0012	Little Vermilion Bay Sediment Trapping	\$57,008	\$2,628	\$2,803	\$62,439
TV-0013-A	Oaks/Avery Canal Hydrologic Restoration, Increment 1	\$343,564	\$2,628	\$2,803	\$348,995
TV-0014	Marsh Island Hydrologic Restoration	\$2,453	\$2,628	\$2,803	\$7,884
TV-0015	Sediment Trapping at "The Jaws"	\$52,453	\$2,628	\$2,803	\$57,884
TV-0017	Lake Portage Land Bridge	\$2,453	\$2,628	\$2,803	\$7,884
TV-0018	Four Mile Canal Terracing and Sediment Trapping	\$37,008	\$2,628	\$2,803	\$42,439
TV-0021	East Marsh Island Marsh Creation	\$104,774	\$2,628	\$77,008	\$184,410
TV-0063	Coles Bayou Marsh Restoration	\$2,453	\$2,628	\$127,618	\$132,699
	TOTAL CWPPRA O&M Expenditures	\$21,109,662	\$7,523,456	\$5,366,011	\$33,999,129
	Federal CWPPRA O&M Expenditures	\$17,943,212	\$6,394,937	\$4,561,110	\$28,899,259
	State CWPPRA O&M Expenditures	\$3,166,449	\$1,128,518	\$804,902	\$5,099,869

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

Project ID	Project Name	FY 2018	FY 2019	FY 2020	Project Total (FY 2018 - FY 2020)
TE-0020	Isles Dernieres Restoration East Island	\$3,650	\$3,650	\$3,650	\$10,950
TE-0024	Isles Dernieres Restoration Trinity Island	\$3,650	\$3,650	\$3,650	\$10,950
TE-0025	East Timbalier Island Sediment Restoration, Phase 1	\$3,650	\$3,650	\$3,650	\$10,950
TE-0027	Whiskey Island Restoration	\$3,650	\$3,650	\$3,650	\$10,950
TE-0030	East Timbalier Island Sediment Restoration, Phase 2	\$3,650	\$3,650	\$3,650	\$10,950
TE-0040	Timbalier Island Dune and Marsh Restoration	\$3,650	\$3,650	\$3,650	\$10,950
_	Total Expenditures	\$21,900	\$21,900	\$21,900	\$65,700

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

Project ID	Project Name	FY 2018	FY 2019	FY 2020	Project Total (FY 2018 - FY 2020)
BA-0001	Davis Pond Freshwater Diversion	\$1,002,467	\$1,072,601	\$1,155,902	\$3,230,970
BS-0008	Caernarvon Freshwater Diversion	\$452,086	\$483,694	\$483,694	\$1,419,474
	Total Expenditures	\$1,454,553	\$1,556,295	\$1,639,596	\$4,650,444
	Federal O&M Monitoring Expenditures	\$1,090,915	\$1,167,221	\$1,229,697	\$3,487,833
	State WRDA O&M Expenditures	\$363,638	\$389,074	\$409,899	\$1,162,611

Notes:

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

<sup>2.</sup> 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 2018	FY 2019	FY 2020	Project Total (FY 2018 - FY 2020)
<b>Hurricane Pr</b>	otection Projects				
BA-0066	West Bank and Vicinity <sup>1</sup>	\$388,465	\$409,089	\$431,293	\$1,228,847
BA-0067	New Orleans and Vicinity <sup>1</sup>	\$627,646	\$654,829	\$626,698	\$1,909,172
LA-0154	FEMA LAMP	\$135,038	\$128,030	\$0	\$263,068
LA-0206	HSDRRS Armoring <sup>1</sup>	\$437,956	\$455,693	\$473,662	\$1,367,311
LA-0253	Flood Protection Inspections <sup>1</sup>	\$256.215	\$268.875	\$284.819	\$809.909
LA-0269	CPRA Letter of No Objection	\$514,269	\$539,983	\$566,982	\$1,621,234
LA-0271	O&M Division State Wide Levee Board Meetings	\$182,189	\$191,298	\$200,863	\$574,351
PO-0057	SELA- Overall <sup>1</sup>	\$289,765	\$376,253	\$260,374	\$926,393
PO-0060	Permanent Canal Closures and Pump Stations <sup>1</sup>	\$2,681,036	\$2,690,088	\$749,484	\$6,120,608
PO-0063	Lake Pontchartrain and Vicinity <sup>1</sup>	\$405,213	\$426,674	\$449,758	\$1,281,644
PO-0003 PO-0096	, ,				
	Flood Protection Assistance	\$2,701,395	\$2,743,964	\$2,827,162	\$8,272,521
BA-0109	HSDRRS Mitigation - WBV	\$7.008	\$7,008	\$7.008	\$21.024
BA-0154	Previously Authorized Mitigation - WBV	\$7,008	\$7,008	\$7,008	\$21,024
DA-0154	New Orleans to Venice Mitigation - Plaguemines Non-	\$1,000	\$1,000	\$1,000	φ2 1,024
BA-0158	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
	MRGO Closure Structure <sup>1</sup>	\$82,400	\$61,960	\$61,960	\$206,320
	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	\$0	\$39.343	\$39.343	\$78.686
PO-0145	LPV Task Force Guardian Mitigation - Bayou Sauvage	\$18,688	\$18,688	\$18,688	\$56,064
PO-0146	LPV Mitigation Project, Manchac WMA Marsh Creation	\$13.114	\$13,114	\$13,114	\$39.343
PO-0152	Lake Borgne and MRGO Shoreline Protection	\$8,184	\$8,184	\$8,184	\$24,552
State-Only P	roiects	<del>+ + + + + + + + + + + + + + + + + + + </del>	40,101	<del>, , , , , , , , , , , , , , , , , , , </del>	<del>+</del> = -,=
	Naomi Siphon	\$11,680	\$26,680	\$12,180	\$50,540
BA-0004	West Point a la Hache Siphon	\$11,680	\$26,680	\$12,180	\$50,540
BA-0005	Fort Livingston	\$80.740	\$24,972	\$24,972	\$130,684
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
PO-0001	Violet Siphon	\$333.680	\$25.680	\$25.680	\$385.040
PO-0036	Orleans Landbridge	\$7,308	\$7,308	\$7,308	\$21,924
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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	\$34,926	\$52,521	\$56,673	\$144,120
TE-0003	Bayou LaCache Wetlands	\$105,840	\$105,840	\$105,840	\$317,520
TV-xx	Quintana Canal	\$12,453	\$2,037,423	\$12,803	\$2,062,679
TV-0013-B	Avery Canal	\$84,906	\$12,628	\$12,803	\$110,337
N/A	Maintenance Surveys	\$33,288	\$33,288	\$33,288	\$99,864
N/A	GPS Network (continued development and maintenance)	\$72,336	\$72,336	\$72,336	\$217,008
	Total Expenditures	\$9,727,901	\$11,565,970	\$7,502,996	\$28,796,867
	Surplus Expenditures	\$6,194,600	\$6,352,720	\$4,566,000	\$17,113,320
	Trust Fund Expenditures	\$3,533,301	\$5,213,250	\$2,936,996	\$11,683,547

Table B-13. Oil Spill Projected Expenditures<sup>1</sup>

Project ID	Project Name	FY 2018	FY 2019	FY 2020	Project Total (FY 2018 - FY 2020)
Deepwater H	orizon NRDA <sup>2</sup>				
BA-0111	Shell Island West- NRDA	\$1,000,000	\$250,000	\$250,000	\$1,500,000
BA-0202	Queen Bess Island Restoration	\$1,500,000	\$5,375,000	\$13,125,000	\$20,000,000
BA-0203	Barataria Basin Ridge and Marsh Restoration- Spanish Pass Increment	\$2,250,000	\$1,350,000	\$30,900,000	\$34,500,000
CS-0080	Rabbit Island Restoration	\$2,000,000	\$1,000,000	\$24,000,000	\$27,000,000
PO-0180	Lake Borgne Marsh Creation- Increment 1	\$3,000,000	\$2,000,000	\$32,000,000	\$37,000,000
TE-0100	NRDA Caillou Lake Headlands	\$103,176,805	\$0	\$0	\$103,176,805
TE-0139	Terrebonne Basin Ridge and Marsh Creation- Bayou Terrebonne Increment	\$1,500,000	\$900,000	\$30,600,000	\$33,000,000
N/A	Provide and Enhance Recreational Opportunities	\$11,000,000	\$11,000,000	\$0	\$22,000,000
N/A	NRDA Restoration Planning	\$2,152,520	\$2,204,066	\$2,258,187	\$6,614,773
N/A	Regionwide Trustee Implementation Group	\$1,000,000	\$1,000,000	\$1,000,000	\$3,000,000
N/A	NRDA Adaptive Management	\$12,241,166	\$13,861,856	\$16,722,054	\$42,825,075
	ater Horizon NRDA Expenditures	\$140,820,491	\$38,940,922	\$150,855,241	\$330,616,653
NFWF Projec					
BA-0143	Caminada Headland Beach and Dune Restoration Increment 2	\$785,250	\$656,500	\$268,000	\$1,709,750
BA-0153	Mid-Barataria Sediment Diversion	\$17,214,663	\$29,165,417	\$388,490,535	\$434,870,615
BS-0030	Mid-Breton Sediment Diversion	\$9,919,723	\$16,035,977	\$13,664,335	\$39,620,036
LA-0276	Sediment Diversion Management	\$2,740,359	\$2,835,611	\$3,382,998	\$8,958,967
TE-0110	Increase Atchafalaya Flow to Eastern Terrebonne	\$15,000,000	\$10,000,000	\$5,000,000	\$30,000,000
TE-0118	East Timbalier Island	\$1,100,000	\$1,100,000	\$103,385,000	\$105,585,000
N/A	NFWF Adaptive Management	\$7,650,300	\$6,033,722	\$5,048,422	\$18,732,444
Total NFWF	Expenditures	\$54,410,295	\$65,827,227	\$519,239,290	\$639,476,812
Proposed RE	STORE Projects				
BA-0197	West Grand Terre Beach Nourishment and Stabilization	\$4,000,000	\$2,659,216	\$25,000,000	\$31,659,216
CS-0065	Calcasieu Ship Channel Salinity Control Measures	\$14,000,000	\$16,400,000	\$30,200,000	\$60,600,000
PO-0029	Mississippi River Reintroduction into Maurepas Swamp	\$4,730,000	\$4,730,000	\$4,730,000	\$14,190,000
PO-0163	Golden Triangle Marsh Creation <sup>3</sup>	\$3,600,000	\$1,300,000	\$1,000,000	\$5,900,000
PO-0174	Biloxi Marsh Living Shoreline	\$1,700,000	\$1,200,000	\$7,712,500	\$10,612,500
TE-0113	Houma Navigation Canal Lock Complex 4	\$10,000,000	\$9,000,000	\$50,000,000	\$69,000,000
N/A	Lower Mississippi River Management	\$1,600,000	\$1,600,000	\$1,600,000	\$4,800,000
N/A	Adaptive Management	\$10,040,000	\$9,517,421	\$11,755,675	\$31,313,096
N/A	Parish Matching Program <sup>5</sup>	\$20,000,000	TBD	TBD	\$20,000,000
N/A	RESTORE Center of Excellence	\$1,648,000	\$1,800,000	\$800,000	\$4,248,000
Total RESTO	RE Expenditures	\$71,318,000	\$48,206,637	\$132,798,175	\$252,322,812
	I Expenditures	\$266,548,786	\$152,974,785	\$802,892,706	\$1,222,416,277
GOMESA Oil	Spill Expenditures	(\$1,600,000)	\$0	\$0	(\$1,600,000)
	pill Expenditures	(\$8,000,000)	\$0	\$0	(\$8,000,000)
State Oil Spil	I Expenditures	\$256,948,786	\$152,974,785	\$802,892,706	\$1,212,816,277

- Notes:

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

  2- Projects may be initiated with Trust Fund revenue if available to be reimbursed with oil spill revenues.

  3- Project funding includes \$1.6 million in GOMESA funding for landrights tasks.

  4- Project partially funded with surplus funds (see Table B-5).

  5- 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).

<sup>1-</sup> Expenditures funded with Surplus funds (see Table B-5).



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### BARRIER ISLAND STATUS REPORT Fiscal Year 2018 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 <a href="https://www.coastal.LA.gov">www.coastal.LA.gov</a> 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.

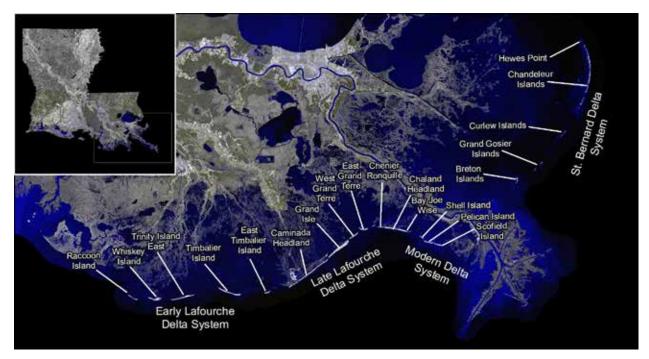


Figure 1. Location of barrier islands and Barrier Island Delta Systems in Louisiana

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 37 barrier island projects have been constructed to date (including 12 in the Early Lafourche Delta System, 16 in the Late

Lafourche Delta System, 7 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 the 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 lifeexpectancy 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 7 in the full report presents the dimensions of the minimized restoration templates.

### **FUTURE PLANS**

Future plans for Louisiana's barrier islands include additional projects, continuation of system wide barrier island monitoring via BICM, continued improvements in borrow area management, management of relevant sediment, geophysical, and ecological data, and improved overall understanding of sediment budgets and sediment management requirements to support the needs of the Coastal Master Plans barrier shoreline projects and better prioritize Louisiana's barrier shoreline efforts.

Table 1. List of constructed and pending barrier island projects in Louisiana

Barrier Shoreline Restoration Projects	Funding	Construction
Surrer Shoreline Restoration 1 Tojects	Program	Date
Early Lafourche Barrier System		
Constructed Projects		
Raccoon Island Repair (TE-0106)	Various	1994
Barrier Island Sand Retention (TE-0004b)	FEMA	1995
Raccoon Island Breakwaters (TE-0029)	CWPPRA	1997
Raccoon Island Shoreline Protection/ Marsh Creation (TE-0048)	CWPPRA	2007, 2013
Whiskey Island Restoration (TE-0027)	CWPPRA	1999
Whiskey Island Back Barrier Marsh Creation (TE-0050)	CWPPRA	2009
Enhancement of Barrier Island and Salt Marsh Vegetation DEMO (TE-0053)	CWPPRA	2012 1999
Isles Dernieres Restoration Trinity Island (TE-0024)	CWPPRA	
New Cut Dune and Marsh Restoration (TE-0037)  Isles Dernieres Restoration East Island (TE-0020)	CWPPRA CWPPRA	2007 1999
		2009
BIMP 2009 Sand Fencing (LA-0246)	STATE	
Wine Island Revegetation Project	FEM A	1995
Funded for Construction  NRDA Caillou Lake Headlands (TE-0100) (under construction)		
	NRDA	TBD
(includes Ship Shoal: Whiskey West Flank Restoration (TE-0047))  Future Projects	NKDA	IBD
None		
None	Fronting.	Comptending
	Funding	Construction
Barrier Shoreline Restoration Projects	Program	Date
Late Lafourche Barrier System		
Constructed Projects  Description (TE 0004b)	EEMAA	1005
Barrier Island Sand Retention (TE-0004b)	FEMA	1995
Timbalier Island Planting Demonstration (TE-18)	CWPPRA	1996
Timbalier Island Dune and Marsh Creation (TE-40)	CWPPRA	2004
BIMP 2009 Sand Fencing (LA-0246)	STATE	2009
East Timbalier Island Sediment Restoration, Phase 1 (TE-25)	CWPPRA	2000
East Timbalier Island Sediment Restoration, Phase 2 (TE-30)	CWPPRA	2000
West Belle Pass Barrier Headland Restoration (TE-52)	CWPPRA	2012
	CIAP/	2015
Caminada Headland Beach and Dune Restoration (BA-45)	STATE	2015
Grand Isle Bay Side Breakwaters (BA-0187)	STATE	2015
Fifi Island Restoration (BA-0155)	CIAP	2015
Fifi Island Breakwater (BA-0168)	CIAP	2015
Grand Isle and Vicinity Hurricane Protection	WRDA	2010
Vegetative Planting of a Dredged Material Disposal Site on Grand Terre (BA-28)	CWPPRA	2001
Restoration on West Grand Terre Island at Fort Livingston (BA-0186)	NOAA	2003
East Grand Terre Island Restoration (BA-30)	CIAP	2010
NRDA Caminada Headland Beach and Dune Restoration, Increment 2 (BA-143)	NFWF	2016
Funded for Construction		
None		
Future Projects		
Barataria Basin Barrier Shoreline (BBBS) Restoration (BA-10)		
Eastern portion of Caminada	LCA	TBD
East Timbalier Island (TE-0118) (in design)	NFWF	TBD
West Grand Terre Beach Nourishment and Stabilization Project (in design)	RESTORE	TBD
Caminada Back Barrier Marsh Creation (BA-0171) (in design)	CWPPRA	TDD
		TBD
Caminada Back Barrier Marsh Creation Increment 2 (BA-0193) (in design)	CWPPRA	TBD
	CWPPRA Funding	TBD
Caminada Back Barrier Marsh Creation Increment 2 (BA-0193) (in design)  Barrier Shoreline Restoration Projects		TBD
Caminada Back Barrier Marsh Creation Increment 2 (BA-0193) (in design)  Barrier Shoreline Restoration Projects	Funding	TBD Construction
Caminada Back Barrier Marsh Creation Increment 2 (BA-0193) (in design)  Barrier Shoreline Restoration Projects  Modern Barrier System  Constructed Projects	Funding	TBD Construction
Caminada Back Barrier Marsh Creation Increment 2 (BA-0193) (in design)  Barrier Shoreline Restoration Projects  Modern Barrier System  Constructed Projects  Pass La Mer to Chaland Pass (BA-38, part 1)	Funding Program	TBD Construction Date
Caminada Back Barrier Marsh Creation Increment 2 (BA-0193) (in design)  Barrier Shoreline Restoration Projects  Modern Barrier System  Constructed Projects  Pass La Mer to Chaland Pass (BA-38, part 1) also known as "Chaland Headland"	Funding Program CWPPRA	TBD Construction
Caminada Back Barrier Marsh Creation Increment 2 (BA-0193) (in design)  Barrier Shoreline Restoration Projects  Modern Barrier System  Constructed Projects  Pass La Mer to Chaland Pass (BA-38, part 1) also known as "Chaland Headland"  BIMP 2009 Sand Fencing (LA-0246)	Funding Program	TBD Construction Date
Caminada Back Barrier Marsh Creation Increment 2 (BA-0193) (in design)  Barrier Shoreline Restoration Projects  Modern Barrier System  Constructed Projects  Pass La Mer to Chaland Pass (BA-38, part 1) also known as "Chaland Headland"  BIMP 2009 Sand Fencing (LA-0246)  Pass Chaland to Grand Bayou Pass Barrier Shoreline Restoration (BA-35)	Funding Program  CWPPRA  STATE	TBD Construction Date  2007 2009
Caminada Back Barrier Marsh Creation Increment 2 (BA-0193) (in design)  Barrier Shoreline Restoration Projects  Modern Barrier System  Constructed Projects  Pass La Mer to Chaland Pass (BA-38, part 1) also known as "Chaland Headland"  BIMP 2009 Sand Fencing (LA-0246)  Pass Chaland to Grand Bayou Pass Barrier Shoreline Restoration (BA-35) also known as "Bay Joe Wise"	Funding Program  CWPPRA  STATE  CWPPRA	TBD Construction Date  2007 2009 2009
Caminada Back Barrier Marsh Creation Increment 2 (BA-0193) (in design)  Barrier Shoreline Restoration Projects  Modern Barrier System  Constructed Projects  Pass La Mer to Chaland Pass (BA-38, part 1) also known as "Chaland Headland"  BIMP 2009 Sand Fencing (LA-0246)  Pass Chaland to Grand Bayou Pass Barrier Shoreline Restoration (BA-35) also known as "Bay Joe Wise"  Barataria Barrier Island Complex Project: Pelican Island and Pass (BA-38, part 2)	Funding Program  CWPPRA  STATE  CWPPRA  CWPPRA	2007 2009 2012
Caminada Back Barrier Marsh Creation Increment 2 (BA-0193) (in design)  Barrier Shoreline Restoration Projects  Modern Barrier System  Constructed Projects  Pass La Mer to Chaland Pass (BA-38, part 1) also known as "Chaland Headland"  BIMP 2009 Sand Fencing (LA-0246)  Pass Chaland to Grand Bayou Pass Barrier Shoreline Restoration (BA-35) also known as "Bay Joe Wise"	Funding Program  CWPPRA  STATE  CWPPRA  CWPPRA  Berm Funds	TBD Construction Date  2007 2009 2009
Caminada Back Barrier Marsh Creation Increment 2 (BA-0193) (in design)  Barrier Shoreline Restoration Projects  Modern Barrier System  Constructed Projects  Pass La Mer to Chaland Pass (BA-38, part 1) also known as "Chaland Headland"  BIMP 2009 Sand Fencing (LA-0246)  Pass Chaland to Grand Bayou Pass Barrier Shoreline Restoration (BA-35) also known as "Bay Joe Wise"  Barataria Barrier Island Complex Project: Pelican Island and Pass (BA-38, part 2)  Emergency Berms W8, W9, W10	Funding Program  CWPPRA  STATE  CWPPRA  CWPPRA  Berm Funds  CWPPRA/	2007 2009 2012 2010-2011
Caminada Back Barrier Marsh Creation Increment 2 (BA-0193) (in design)  Barrier Shoreline Restoration Projects  Modern Barrier System  Constructed Projects  Pass La Mer to Chaland Pass (BA-38, part 1) also known as "Chaland Headland"  BIMP 2009 Sand Fencing (LA-0246)  Pass Chaland to Grand Bayou Pass Barrier Shoreline Restoration (BA-35) also known as "Bay Joe Wise"  Barataria Barrier Island Complex Project: Pelican Island and Pass (BA-38, part 2)  Emergency Berms W8, W9, W10  Riverine Sand Mining/Scofield Island Restoration (BA-40)	Funding Program  CWPPRA  STATE  CWPPRA  CWPPRA  Berm Funds  CWPPRA/  Berm Funds	2007 2009 2012 2013
Caminada Back Barrier Marsh Creation Increment 2 (BA-0193) (in design)  Barrier Shoreline Restoration Projects  Modern Barrier System  Constructed Projects  Pass La Mer to Chaland Pass (BA-38, part 1) also known as "Chaland Headland"  BIM P 2009 Sand Fencing (LA-0246)  Pass Chaland to Grand Bayou Pass Barrier Shoreline Restoration (BA-35) also known as "Bay Joe Wise"  Barataria Barrier Island Complex Project: Pelican Island and Pass (BA-38, part 2)  Emergency Berms W8, W9, W10  Riverine Sand Mining/Scofield Island Restoration (BA-40)  Shell Island Restoration East Berm (BA-110)	Funding Program  CWPPRA  STATE  CWPPRA  CWPPRA  Berm Funds  CWPPRA/	2007 2009 2012 2010-2011
Caminada Back Barrier Marsh Creation Increment 2 (BA-0193) (in design)  Barrier Shoreline Restoration Projects  Modern Barrier System  Constructed Projects  Pass La Mer to Chaland Pass (BA-38, part 1) also known as "Chaland Headland"  BIMP 2009 Sand Fencing (LA-0246)  Pass Chaland to Grand Bayou Pass Barrier Shoreline Restoration (BA-35) also known as "Bay Joe Wise"  Barataria Barrier Island Complex Project: Pelican Island and Pass (BA-38, part 2)  Emergency Berms W8, W9, W10  Riverine Sand Mining/Scofield Island Restoration (BA-40) Shell Island Restoration East Berm (BA-110)	Funding Program  CWPPRA STATE  CWPPRA CWPPRA Berm Funds CWPPRA/ Berm Funds Berm Funds	2007 2009 2009 2012 2010-2011 2013 2013
Caminada Back Barrier Marsh Creation Increment 2 (BA-0193) (in design)  Barrier Shoreline Restoration Projects  Modern Barrier System  Constructed Projects  Pass La Mer to Chaland Pass (BA-38, part 1) also known as "Chaland Headland"  BIMP 2009 Sand Fencing (LA-0246)  Pass Chaland to Grand Bayou Pass Barrier Shoreline Restoration (BA-35) also known as "Bay Joe Wise"  Barataria Barrier Island Complex Project: Pelican Island and Pass (BA-38, part 2)  Emergency Berms W8, W9, W10  Riverine Sand Mining/Scofield Island Restoration (BA-40)  Shell Island Restoration East Berm (BA-110)  Funded for Construction  Chenier Ronquile Barrier Island Restoration (BA-76) (under construction)	Funding Program  CWPPRA STATE  CWPPRA CWPPRA Berm Funds CWPPRA/ Berm Funds NRDA	2007 2009 2012 2010-2011 2013 2013 TBD
Caminada Back Barrier Marsh Creation Increment 2 (BA-0193) (in design)  Barrier Shoreline Restoration Projects  Modern Barrier System  Constructed Projects  Pass La Mer to Chaland Pass (BA-38, part 1) also known as "Chaland Headland"  BIMP 2009 Sand Fencing (LA-0246)  Pass Chaland to Grand Bayou Pass Barrier Shoreline Restoration (BA-35) also known as "Bay Joe Wise"  Barataria Barrier Island Complex Project: Pelican Island and Pass (BA-38, part 2)  Emergency Berms W8, W9, W10  Riverine Sand Mining/Scofield Island Restoration (BA-40) Shell Island Restoration East Berm (BA-110)  Chenier Ronquile Barrier Island Restoration (BA-76) (under construction)  Shell Island Restoration West NRDA (BA-111) (under construction)	Funding Program  CWPPRA STATE  CWPPRA CWPPRA Berm Funds CWPPRA/ Berm Funds Berm Funds	2007 2009 2009 2012 2010-2011 2013 2013
Caminada Back Barrier Marsh Creation Increment 2 (BA-0193) (in design)  Barrier Shoreline Restoration Projects  Modern Barrier System  Constructed Projects  Pass La Mer to Chaland Pass (BA-38, part 1) also known as "Chaland Headland"  BIMP 2009 Sand Fencing (LA-0246) Pass Chaland to Grand Bayou Pass Barrier Shoreline Restoration (BA-35) also known as "Bay Joe Wise"  Barataria Barrier Island Complex Project: Pelican Island and Pass (BA-38, part 2)  Emergency Berms W8, W9, W10  Riverine Sand Mining/Scofield Island Restoration (BA-40)  Shell Island Restoration East Berm (BA-110)  Chenier Ronquile Barrier Island Restoration (BA-76) (under construction) Shell Island Restoration West NRDA (BA-111) (under construction)	Funding Program  CWPPRA STATE  CWPPRA CWPPRA Berm Funds CWPPRA/ Berm Funds NRDA	2007 2009 2009 2012 2010-2011 2013 2013
Caminada Back Barrier Marsh Creation Increment 2 (BA-0193) (in design)  Barrier Shoreline Restoration Projects  Modern Barrier System  Constructed Projects  Pass La Mer to Chaland Pass (BA-38, part 1) also known as "Chaland Headland"  BIMP 2009 Sand Fencing (LA-0246)  Pass Chaland to Grand Bayou Pass Barrier Shoreline Restoration (BA-35) also known as "Bay Joe Wise"  Barataria Barrier Island Complex Project: Pelican Island and Pass (BA-38, part 2)  Emergency Berms W8, W9, W10  Riverine Sand Mining/Scofield Island Restoration (BA-40) Shell Island Restoration East Berm (BA-110)  Chenier Ronquile Barrier Island Restoration (BA-76) (under construction)  Shell Island Restoration West NRDA (BA-111) (under construction)	Funding Program  CWPPRA STATE  CWPPRA CWPPRA Berm Funds CWPPRA/ Berm Funds NRDA	2007 2009 2009 2012 2010-2011 2013 2013
Caminada Back Barrier Marsh Creation Increment 2 (BA-0193) (in design)  Barrier Shoreline Restoration Projects  Modern Barrier System  Constructed Projects  Pass La Mer to Chaland Pass (BA-38, part 1) also known as "Chaland Headland"  BIMP 2009 Sand Fencing (LA-0246) Pass Chaland to Grand Bayou Pass Barrier Shoreline Restoration (BA-35) also known as "Bay Joe Wise"  Barataria Barrier Island Complex Project: Pelican Island and Pass (BA-38, part 2)  Emergency Berms W8, W9, W10  Riverine Sand Mining/Scofield Island Restoration (BA-40)  Shell Island Restoration East Berm (BA-110)  Chenier Ronquile Barrier Island Restoration (BA-76) (under construction) Shell Island Restoration West NRDA (BA-111) (under construction)	Funding Program  CWPPRA  STATE  CWPPRA  CWPPRA  Berm Funds  CWPPRA/ Berm Funds  NRDA  NRDA	2007 2009 2012 2010-2011 2013 2013 TBD TBD
Caminada Back Barrier Marsh Creation Increment 2 (BA-0193) (in design)  Barrier Shoreline Restoration Projects  Modern Barrier System  Constructed Projects  Pass La Mer to Chaland Pass (BA-38, part 1) also known as "Chaland Headland"  BIMP 2009 Sand Fencing (LA-0246)  Pass Chaland to Grand Bayou Pass Barrier Shoreline Restoration (BA-35) also known as "Bay Joe Wise"  Barataria Barrier Island Complex Project: Pelican Island and Pass (BA-38, part 2)  Emergency Berms W8, W9, W10  Riverine Sand Mining/Scofield Island Restoration (BA-40) Shell Island Restoration East Berm (BA-110)  Cunded for Construction  Chenier Ronquile Barrier Island Restoration (BA-76) (under construction) Shell Island Restoration West NRDA (BA-111) (under construction)	Funding Program  CWPPRA STATE  CWPPRA CWPPRA Berm Funds CWPPRA Funds Funds Funds NRDA NRDA NRDA LCA	2007 2009 2012 2010-2011 2013 2013 TBD TBD
Caminada Back Barrier Marsh Creation Increment 2 (BA-0193) (in design)  Barrier Shoreline Restoration Projects  Modern Barrier System  Constructed Projects  Pass La Mer to Chaland Pass (BA-38, part 1) also known as "Chaland Headland"  BIMP 2009 Sand Fencing (LA-0246)  Pass Chaland to Grand Bayou Pass Barrier Shoreline Restoration (BA-35) also known as "Bay Joe Wise"  Barataria Barrier Island Complex Project: Pelican Island and Pass (BA-38, part 2)  Emergency Berms W8, W9, W10  Riverine Sand Mining/Scofield Island Restoration (BA-40)  Shell Island Restoration East Berm (BA-110)  Funded for Construction  Chenier Ronquile Barrier Island Restoration (BA-76) (under construction)  Shell Island Restoration West NRDA (BA-111) (under construction)  Future Projects  BBBS Restoration (BA-10)  Barrier Shoreline Restoration Projects	Funding Program  CWPPRA STATE  CWPPRA CWPPRA Berm Funds CWPPRA Berm Funds NRDA NRDA  LCA Funding	2007 2009 2009 2012 2010-2011 2013 2013 TBD TBD Construction
Caminada Back Barrier Marsh Creation Increment 2 (BA-0193) (in design)  Barrier Shoreline Restoration Projects  Modern Barrier System  Constructed Projects  Pass La Mer to Chaland Pass (BA-38, part 1) also known as "Chaland Headland"  BIMP 2009 Sand Fencing (LA-0246)  Pass Chaland to Grand Bayou Pass Barrier Shoreline Restoration (BA-35) also known as "Bay Joe Wise"  Barataria Barrier Island Complex Project: Pelican Island and Pass (BA-38, part 2)  Emergency Berms W8, W9, W10  Riverine Sand Mining/Scofield Island Restoration (BA-40)  Shell Island Restoration East Berm (BA-110)  Chenier Ronquile Barrier Island Restoration (BA-76) (under construction)  Shell Island Restoration West NRDA (BA-111) (under construction)  Enture Projects  BBBS Restoration (BA-10)  Barrier Shoreline Restoration Projects B. Bernard Delta System	Funding Program  CWPPRA STATE  CWPPRA CWPPRA Berm Funds CWPPRA Berm Funds NRDA NRDA  LCA Funding	2007 2009 2009 2012 2010-2011 2013 2013 TBD TBD Construction
Caminada Back Barrier Marsh Creation Increment 2 (BA-0193) (in design)  Barrier Shoreline Restoration Projects  Modern Barrier System  Constructed Projects  Pass La Mer to Chaland Pass (BA-38, part 1) also known as "Chaland Headland"  BIMP 2009 Sand Fencing (LA-0246)  Pass Chaland to Grand Bayou Pass Barrier Shoreline Restoration (BA-35) also known as "Bay Joe Wise"  Barataria Barrier Island Complex Project: Pelican Island and Pass (BA-38, part 2)  Emergency Berms W8, W9, W10  Riverine Sand Mining/Scofield Island Restoration (BA-40) Shell Island Restoration East Berm (BA-110)  Funded for Construction  Chenier Ronquile Barrier Island Restoration (BA-76) (under construction) Shell Island Restoration West NRDA (BA-111) (under construction)  Future Projects BBBS Restoration (BA-10)  Barrier Shoreline Restoration Projects B. Bernard Delta System	Funding Program  CWPPRA STATE  CWPPRA CWPPRA Berm Funds CWPPRA Berm Funds NRDA NRDA  LCA Funding	2007 2009 2009 2012 2010-2011 2013 2013 TBD TBD Construction
Caminada Back Barrier Marsh Creation Increment 2 (BA-0193) (in design)  Barrier Shoreline Restoration Projects  Modern Barrier System  Constructed Projects  Pass La Mer to Chaland Pass (BA-38, part 1) also known as "Chaland Headland"  BIMP 2009 Sand Fencing (LA-0246) Pass Chaland to Grand Bayou Pass Barrier Shoreline Restoration (BA-35) also known as "Bay Joe Wise"  Barataria Barrier Island Complex Project: Pelican Island and Pass (BA-38, part 2)  Emergency Berms W8, W9, W10  Riverine Sand Mining/Scofield Island Restoration (BA-40)  Shell Island Restoration East Berm (BA-110)  Funded for Construction  Chenier Ronquile Barrier Island Restoration (BA-76) (under construction) Shell Island Restoration West NRDA (BA-111) (under construction)  Future Projects  BBBS Restoration (BA-10)  Barrier Shoreline Restoration Projects  St. Bernard Delta System  Constructed Projects	Funding Program  CWPPRA STATE  CWPPRA CWPPRA CWPPRA STWPPRA Funds CWPPRA NRDA NRDA NRDA LCA Funding Program	2007 2009 2009 2012 2010-2011 2013 2013 TBD TBD TBD Construction Date
Caminada Back Barrier Marsh Creation Increment 2 (BA-0193) (in design)  Barrier Shoreline Restoration Projects  Modern Barrier System  Constructed Projects  Pass La Mer to Chaland Pass (BA-38, part 1) also known as "Chaland Headland"  BIMP 2009 Sand Fencing (LA-0246)  Pass Chaland to Grand Bayou Pass Barrier Shoreline Restoration (BA-35) also known as "Bay Joe Wise"  Barataria Barrier Island Complex Project: Pelican Island and Pass (BA-38, part 2)  Emergency Berms W8, W9, W10  Riverine Sand Mining/Scofield Island Restoration (BA-40)  Shell Island Restoration East Berm (BA-110)  Funded for Construction  Chenier Ronquile Barrier Island Restoration (BA-76) (under construction)  Shell Island Restoration West NRDA (BA-111) (under construction)  Future Projects  BBBS Restoration (BA-10)  Barrier Shoreline Restoration Projects  8t. Bernard Delta System  Constructed Projects  Chandeleur Islands Marsh Restoration (PO-27) Emergency Berms E4	Funding Program  CWPPRA STATE  CWPPRA CWPPRA Berm Funds CWPPRA NRDA  NRDA  LCA Funding Program  CWPPRA	2007 2009 2009 2012 2010-2011 2013 2013 TBD TBD Construction Date
Caminada Back Barrier Marsh Creation Increment 2 (BA-0193) (in design)  Barrier Shoreline Restoration Projects  Modern Barrier System  Constructed Projects  Pass La Mer to Chaland Pass (BA-38, part 1) also known as "Chaland Headland"  BIMP 2009 Sand Fencing (LA-0246)  Pass Chaland to Grand Bayou Pass Barrier Shoreline Restoration (BA-35) also known as "Bay Joe Wise"  Barataria Barrier Island Complex Project: Pelican Island and Pass (BA-38, part 2)  Emergency Berms W8, W9, W10  Riverine Sand Mining/Scofield Island Restoration (BA-40)  Shell Island Restoration East Berm (BA-110)  Funded for Construction  Chenier Ronquile Barrier Island Restoration (BA-76) (under construction)  Shell Island Restoration West NRDA (BA-111) (under construction)  Future Projects  BBBS Restoration (BA-10)  Barrier Shoreline Restoration Projects  St. Bernard Delta System  Constructed Projects  Chandeleur Islands Marsh Restoration (PO-27)	Funding Program  CWPPRA STATE  CWPPRA CWPPRA Berm Funds CWPPRA NRDA  NRDA  LCA Funding Program  CWPPRA	2007 2009 2009 2012 2010-2011 2013 2013 TBD TBD Construction Date
Caminada Back Barrier Marsh Creation Increment 2 (BA-0193) (in design)  Barrier Shoreline Restoration Projects  Modern Barrier System  Constructed Projects  Pass La Mer to Chaland Pass (BA-38, part 1) also known as "Chaland Headland"  BIMP 2009 Sand Fencing (LA-0246)  Pass Chaland to Grand Bayou Pass Barrier Shoreline Restoration (BA-35) also known as "Bay Joe Wise"  Barataria Barrier Island Complex Project: Pelican Island and Pass (BA-38, part 2)  Emergency Berms W8, W9, W10  Riverine Sand Mining/Scofield Island Restoration (BA-40)  Shell Island Restoration East Berm (BA-110)  Funded for Construction  Chenier Ronquile Barrier Island Restoration (BA-76) (under construction)  Shell Island Restoration West NRDA (BA-111) (under construction)  Future Projects  BBBS Restoration (BA-10)  Barrier Shoreline Restoration Projects  St. Bernard Delta System  Constructed Projects    Chandeleur Islands Marsh Restoration (PO-27)   Emergency Berms E4  Funded for Construction	Funding Program  CWPPRA STATE  CWPPRA Berm Funds CWPPRA/ Berm Funds  NRDA NRDA  NRDA  LCA Funding Program  CWPPRA  EURA  EURA	2007 2009 2009 2012 2010-2011 2013 2013 TBD TBD TBD Construction Date

### **Appendix D**

### Caernarvon & Davis Pond Operational Plans for 2017

Available Online (www.coastal.la.gov)

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### Appendix E Inventory of Non-State Projects

### A. Parish CIAP Projects

### STORI CAD DAIS HOLD

Part   Communication   Part													
Post   Particular Control Co	Planning Unit	-	1	Г	1	1	1	1	1	1	1	1	1
PD-29   Each Line County Family   PD-20   Each Family   PD-2		The project proposes to dredge a waterway through Lake Lery historically used for navigation. The waterway is located approximately along the St. Bernard and Plaquenimes Parish line. The project will tuitize the dredged material and borrow areas in Lake Lery to create marsh in the open water areas north and east of the lake. It will also re-establish the lake rim by armoring the northern and eastern shoreline of Lake Lery using a rock dike.	The project location is within Livingston Parish, in the Maurepus Swamp of southeast Louisian. The project area includes 2,590.4 contiguous acres of coastal wetland forest, specifically bald cypres-tupelo swamp, with roughly 200 acres frooting the western edge of Lake Maurepas.	The Amite River is located southwest of Lake Maurepas and east of L-10. The objective of this project is to allow floodwaters to introduce additional fresh water, nutrients, and sediment into the western Maurepas Swamp. The exchange of flow would occur ultimg flood events on the river and from munof fol closalized rainfall events, and would in turn provide nutrients and sediment to facilitate organic sediment deposition in the swamp, some fluctuation of water levels, improve biological productivity, and prevent further swamp deterioration.	Funds will be used so that the St. Bernard Parish Coastal Zone Management Plan may be updated.	This project involves the continuation of the rock shoreline protection project on the south shore of Lake Pontcharrain in St. Charles Parish. The project will consist of installing approximately 2,150 linear feet of rock dike on the existing shoreline and the construction of a 130-foot-long timber pile bridge at the mouth of Bayou LaBranche.	This project involves the continuation of rock shoreline protection project on the south shore of Lake Pontchartrain in St. Charles Parish. The project will consist of installing approximately 15:300 linear feet of rock dike.	This project will construct a wetland assimilation treatment plant which will collect wastewater from secondary treatment modules in Grand Point, Louisiana. It will pump the wastewater to the pond area that will discharge into seven acres of forested wetland areas that will directly affect 2,400 acres of wetlands.	The proposed project will consist of approximately 1,400 linear feet of shoreline protection extending in an easterly and westerly direction in St. John the Baptist Parish, where the Reserve Relieve Canal enters Lake Maurepas and entrance protection lining. The proposed feature consists of a foreshore rock dike with gaps for fish and public access to the lake shoreline.	This project includes the acquisition of a 27.2 acre parcel to preserve a sensitive wetland composed of pristine cypress swamp and bottomland hardwoods from future commercial or residential development. It is located between Bayou Lacombe and the Tammany Trace linear park south of U.S. 190 in Lacombe, Louisiana within the Bayou Lacombe watershed.	This project includes the acquisition of a 40 acre parcel composed of pine trees and mixed hardwoods with inclusion savannas, which lies between the I-12 Service Road and Bayou Liberty in Slidell, Louisiana. This project is to educate the public about the value of wetlands. Invasive plant species will be removed and nest boxes will be installed.	This project will include an upgrade of the existing wastewater treatment plant and construction of a discharge structure and piping system for wetland assimilation. It will construct 2.5 miles of force main for disbursement of treated effluent into 1.7 square miles of uninhabited wetland adjacent to the western border of the City of Mandeville.	The project is located in Tangipahoa Parish between Pass Manchae and the mouth of the Tangipahoa River. The goal of the proposed project is to construct approximately 12,000 linear feet of foreshore protection.
PO-29   Establishment   PAS		\$8,188,293	\$2,774,290	\$2,594,680	N/A	\$3,600,000	\$930,917	\$1,600,000	\$1,730,042	\$1,345,000	\$1,718,150	\$3,734,879	\$5,882,716
PO-45   Exact Encircular Protection   Policy REP   Poli	Juli Hilli	\$497,417	\$260,443	\$863,185	\$200,000	N/A	N/A	N/A	\$283,015	N/A	N/A	N/A	\$699,400
PO-49   Establishment and March   MC   POSM   1   103   StB   3100   1   1   1   1   1   1   1   1   1	doll State of the	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
PO-39   East Lakenche   Po-42   East Banck   Po-43   East Protection   Po-45   East Banck   Po-46	Paylated Salo	Pending	2011	Pending	N/A	Pending	Pending	Pending	Pending	2011	2009	2010	Pending
Po-40   Project   Projec	(Silver)	300	1,762	6,458	N/A	N/A	N/A	2,400	N/A	27	40	N/A	N/A
Po-40   Project   Projec	Strange of	StB.	Liv.	Liv.	StB.	StC.	StC.	StJa.	Stlo.	StT.	StT.	StT.	Tang.
PO-40 Hydrologic Restoration in the West LaBranche Protection PO-41 Update of St. Bernard Po-43 Shoreline Protection Po-45 East Bank Wastewater Po-46 Shoreline Protection Po-45 Reservation Project Po-48 Green Property Po-49 French Property Po-49 French Property Po-49 Preservation Project Po-51 Ecosystem Resoration Project Pro-51 Ecosystem Resoration Project Pro-52 Lake Pontchantain SP BOEMRE PWS Project Project Shoreline Protection SP BOEMRE PWS Project	\	103	88	88	103	99	99	57	57	06	06	68	73
PO-42 East LaBranche SP Frotection PO-49 Shoreline Protection PO-49 Shoreline Protection PO-45 Shoreline Protection SP FWS PO-46 Shoreline Protection Protection PO-45 Shoreline Protection SP FWS PO-46 Shoreline Protection Protec	toghods, son	-	18	81	-	19	19	18	19	Ξ	Ξ	Ξ	9
PO-40  PO-42  PO-42  PO-42  PO-43  East LaBranche PO-45  East Bank Wastewater Assimilation Plant PO-46  Reserve Relief Canal PO-48  Reserve Relief Canal PO-48  Reserve Relief Canal PO-49  Po-49  Po-49  Reserve Relief Canal PO-49  Po-49  Project  Po-49  Preservation Project  Assimilation Plant Assimilation Plant Assimilation Plant Po-46  Reserve Relief Canal PO-48  Preservation Project Assimilation Plant Project  Lake Pontchartrain PO-51  Lake Pontchartrain SP  Po-52  Shoreline Protection SP  Project  Lake Pontchartrain SP  Shoreline Protection SP  Project  Lake Pontchartrain SP  Shoreline Protection SP  Project  Lake Pontchartrain SP  Shoreline Protection SP  Project Sporteline Protection SP  Project	3451 100 1614	BOEMRE/ FWS	BOEMRE/ FWS	BOEMRE/ FWS	BOEMRE/ FWS	BOEMRE/ FWS	BOEMRE/ FWS	BOEMRE/ FWS	BOEMRE/ FWS	BOEMRE/ FWS	BOEMRE/ FWS	BOEMRE/ FWS	BOEMRE/ FWS
PO-45  PO-45  PO-45  PO-45  PO-45  PO-45  PO-45  PO-45  PO-45  East LaBra Management PO-45  PO-45  East Bank Was Assimilation PO-46  Poserve Relie PO-46  Poserve Relie PO-46  Poservation I PO-49  Preservation I PO-49  Preservation I PO-51  French Prop Preservation Prop PO-51  East Bank Was Assimilation PO-51  French Prop Preservation I Preservation Res Project Pro					PL	SP	SP	MM	SP	LA	LA	MM	SP
		Lake Lery Rim Re- Establishment and Marsh Creation	Bald Cypress/Tupelo Coastal Forest Protection	Hydrologic Restoration in the West Lake Maurepas Swamps	Update of St. Bernard Parish Coastal Zone Management Plan	West LaBranche Shoreline Protection	East LaBranche Shoreline Protection	East Bank Wastewater Assimilation Plant	Reserve Relief Canal Shoreline Protection Project	Green Property Preservation Project	French Property Preservation Project	Mandeville Aquatic Ecosystem Restoration Project	Lake Pontchartrain Shoreline Protection
CIVE CIVE CIVE CIVE CIVE CIVE CIVE CIVE	Str of the street of the stree	BS-17	PO-39	PO-40	PO-41	PO-42	PO-43	PO-45	PO-46	PO-48	PO-49	PO-51	PO-52
	Ргодгат	CIVb	CIAP	CIVb	CIVb	CIAP	CIAP	CIVb	CIVb	CIVb	CIVb	CIAP	CIVb

### RISH CIAP PROJECTS

Planning Unit	1	-	-	7	2	2	7	2	2	2
Col. Project Summary	The study will develop a plan to allow wetland assimilation to provide tertiary treatment to wasterwater while improving wetland quality. The study will analyze potential sites and set project goals. The final trept vill provide preliminary characterizations of the parish's wetland systems, their suitability for wastewater assimilation, an analysis of the wetlands's loading and assimilation capacities, and capabilities of the wetlands and preliminary engineering and cost analyses.	This project is located in the Pontchartrain Basin in St. Tammany Parish. Project features include approximately 600 acres of marsh creation via hydraulic dredging and placement of 2 million cubic yards of material. The likely borrow location is Lake Pontchartrain, the Highway II Canal, and Bayou Bondione and associated eanals. The objectives of this project are to create approximately 600 acres of intermediate marsh, reduce erosion of adjacent interior marshes, and maintain and support the integrity of the Lake Pontchartrain shoreline.	The project would construct a waterline booster pump along LA Highway 44 in Convent, Louisiama in St. James Parish. The construction includes bousing a 40 hp motor with a 1,100 gallon/minute high-service pump and connecting to the existing 10 inch PVIC waterline at two locations in order to establish a loop and by-pass system. The station will have a metal building with a concrete floor to enclose the pump and electrical equipment.	The project is located in Jefferson Parish, Louisiana, along the bay side of Grand Isle, Louisiana. The purpose of this project is to reduce erosion on the bay side of Grand Isle. Twenty-four 300 foot breakwaters (approximately 1.5 miles) will be constructed on the back-bay side of Grand Isle.	This project located in Lafitte, Jefferson Parish Louisiana, will improve shoreline protection by creating over 8,000 linear feet of additional shoreline through the use sediment from the Mississippi River, and vegetative planting, along the west side of Gioses Bayou. This project will help establish a wetland ridge which will function as habitat for native species of plants and animals.	This project located within Lafitte, Louisiana will help protect the integrity of wetlands within the Barataria Basin and reduce saltwater intrusion and deterioration of interior marsh. Over 10,600 linear feet of foreshore rock revenment will be constructed, along with a water control structure in order to protect the interior marshes.	Distributary ridges and chenier ridges along the coast of Louisiana are disappearing at an alarming rate. Projects such as these help establish ridge habitats and associated wetlands which are extremely important for millions of migrating Neotropical songbirds that cross the Gulf of Mexico, in addition to providing wetland habitat for coastal plant and animal species.	This project, located in Lafourche Parish, will use dedicated dredge material to create 30-40 acres of weltands in interior open water bodies (enhancing 70-100 acres of marsh) and plant 2 rows of smooth cordgrass along approx. 7,500 linear feet of the lake shoreline.	Funds will be allocated to the Parish so that they may update their coastal management plan.	Tidewater Road is subject to heavy inundation from directional winds that elevate tides over the roadway. Wetland loss in the area is severe, and along much of Tidewater Road's leagth there is open water in canals and ponds that alout the road shoulder. Tidewater Road is an important access point for the oil and gas industry. This project also proposes to create flood protection along the entire length of Tidewater Road.
**************************************	N/A	\$1,860,558	\$265,100	\$2,989,653	N/A	\$7,642,385	N/A	\$2,209,910	N/A	\$3,364,310
* 180 S (11 (18 18 ))	\$49,994	N/A	N/A	\$307,709	\$165,935	\$387,986	\$700,000	\$222,430	\$300,000	N/A
Topolitino III	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Day John Story	2009	Pending	2011	2012	2011	Pending	N/A	2011	N/A	2010
(S.I.B.)	N/A	009	N/A	N/A	1,200	N/A	09	100	N/A	N/A
131185(7.38110)	StJa.	StT.	StJa.	Jef.	Jef.	Jef.	Laf.	Laf.	Plaq.	Plaq.
STISSIC STITUS	85	06	85	105	105	105	54	54	105	105
tostods rottoga	81	=	81	∞	∞	∞	20	20	1	-
3451 10360H	BOEMRE/ FWS	BOEMRE/ FWS	BOEMRE/ FWS	BOEMRE/ FWS	BOEMRE/ FWS	BOEMRE/ FWS	BOEMRE/ FWS	BOEMRE/ FWS	BOEMRE/ FWS	BOEMRE/ FWS
	PL	МС	INF	SP	PL	SP	VP	DM MC VP	PL.	IN.
Oliver to Oliver	Wetland Wastewater Assimilation Process Planning	Northshore Beach Marsh Creation/Restoration	Waterline Booster Pump Station, East Bank	Bayside Segmented Breakwaters at Grand Isle	Goose Bayou Ridge Creation and Shoreline Protection	Lower Lafitte Shoreline Stabilization at Bayou Rigolettes	Maritime Forest Ridge Restoration	Northwest Little Lake Marsh Creation and Enhancement	Update of the Plaquemines Parish Coastal Management Plan	Tidewater Road Flood Protection
	PO-53	PO-70	PO-71	BA-50	BA-51	BA-52	BA-53	BA-54	BA-56	BA-57
Ргодгат	CIVb	CIVb	CIVb	CIVb	CIAP	CIVb	CIVb	CIAP	CIAP	CIVb

### RISH CIAP PROJECTS

Provide the control of the control											
BA-65   Waretine Bosser Pump   By   BOEMEE   18   St.   St	Planning Unit	2	2	2	2	61	2	7	2	4	4
19.4-50   Wachine bloomer Prop   18.4-50   Wachine bloomer Prop	Project Summary	This project would construct a waterline booster pump station in Welcome, Louisiana. The proposed site is located near Section 43, Tr-11-5, R-3-E, along LA Highway 18. The proposed construction includes the installation of a 40 hp electric motor with a 1, 100 gpm high-service pump. The booster pump will be built along the existing waterline and be ited in at two places in order to establish a loop and by-pass system with 10-inch in-line valves. The station will a have metal building with a concrete floor to fully enclose and protect the pump and electrical equipment.	The St. James Parish Council would like to purchase several large tracts of existing wetlands to prohibit the destruction of, and aid in the protection of, the parish's coastal wetland areas. This project proposes to purchase approximately 235 acres of existing wetlands from the Bayou Chevreuil Land Co., LLC.	The St. James Parish Council plans to construct a wetland assimilation treatment plant on property owned by the Parish Council in Vacherie, Louisiana. The plant will collect wastewater from secondary treatment modules and pump the wastewater to a sediment pond area. The nine acre pond will discharge into 2,400 acres of forested wetland areas that will directly affect the swamp's composition and structure.	This program involves the use of a small dredge to hydraulically dredge borrow canals and other open water areas to restore approximately 175 acres of marsh apron along levees, chemiers and roadways in Lafourche Parish.	The proposed project is located in the Venice area of Plaquemines Parish, and more specifically in the Jump Basin Marina and along the west side of Tidewater Road. The proposed project would use material dredged from the marina to create marsh on the west side of Tidewater Road. Based on preliminary surveys, it predicted that approximately 65,000 cubic yards of material could be dredged from the marina. Based on water depths in the target area, an initial estimate of 4 to 7 acres of marsh could be created.	The project is located at the eastern tip of Fifi Island, adjacent to Bayou Rigaud, on the northern side of Grand Isle. The project would provide approximately 2,200 linear feet of rock dike protection and create approximately 6 acres of marsh. Additionally, the project will provide protection to the bay side of Grand Isle.	The St. James Parish Council will install 24 inch plastic pipe through existing spoil banks and earthen berms to allow water exchange through these man-made barriers. The culvert installations will allow present ingress and egress into these areas to continue and enhance the water quality and nutrient exchange in the project area. It is estimated that approximately 100 sites would each need three sets of culverts to be installed along this 20 mile stretch of canal.	The proposed project will consist of 7,535 feet of shoreline protection, extending from "Pleasure Bend" westward to Pointe Aux Herbes, along the western shore of Lac des Allemands, St. John the Baptist Parish, Louisiana. The proposed feature consists of foreshore rock dike with gaps for fish and public access to the lake shoreline.	This is a two phase project that is located on the south side of the Gulf Intracoastal Waterway at LA Highway 27 south. The goal of the project is to restore the existing rock shoreline protection and stabilization for approximately 1,000 feet by placing cellular concrete block revetment along the existing shoreline.	This project features include the relocation of two existing water control structures (48 inch culverts) that are currently not functioning as designed; the installation of a new water control structure (two 36 inch culverts); and the refurbishment of three miles of adjacent levees.
BA-65   Small Dredge Prosection and Reads Cash   Small Reads Cash		\$256,700	\$718,620	\$1,757,026	\$2,789,031	8800,000	\$2,338,605	\$90,68	\$3,313,183	\$1,000,000	\$525,459
BA-61   Weat last broaden and American Decision   Dec	States.	N/A	V/N	V/A	\$160,250	N/A	157'808\$	N/A	8507,369	N/A	\$83,074
Part	ROTALITION OF THE PROPERTY OF	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	K/X	N/A
BA-65   West Bank Wastevanter   BOEMRE   BA-65   Small Decige Program   Small Ba-65   Small Decige Program   Small Ba-65   Small Decige Program   Small Ba-65   S	Politigited Solos	2009	2010	Pending	2010	Pending	Pending	Pending	Pending	Pending	Pending
BA-63   West Bank Wethand   LA   PWS   BOEMRE   BA-64   Jump Basin Dredging Brack   BOEMRE   BA-65   Small Dredging Brack   BOEMRE   BA-65   Small Dredging Brack   BOEMRE   BA-66   Fifi Island Restoration   BOEMRE   BA-66   Fifi Island Restoration   BOEMRE   BOEMRE   BA-66   Shoreline Protection at Shoreline Protection Shoreline Protection at Shoreline Protection Shoreline Protection S	Solve	N/A	235	2,400	175	٢	9	N/A	N/A	3	2,500
BA-63   West Bank Wethand   LA   PWS   BOEMRE   BA-64   Jump Basin Dredging Brack   BOEMRE   BA-65   Small Dredging Brack   BOEMRE   BA-65   Small Dredging Brack   BOEMRE   BA-66   Fifi Island Restoration   BOEMRE   BA-66   Fifi Island Restoration   BOEMRE   BOEMRE   BA-66   Shoreline Protection at Shoreline Protection Shoreline Protection at Shoreline Protection Shoreline Protection S	DIDENT SERVE	StJa.	StJa.	StJa.	Laf	Plaq.	Jef.	StJa.	StJo.	Cal.	Cal.
BA-63 Waterline Booster Pump BA-63 Small Dredge Program BA-64 Jump Basin Dredging BA-65 Fiff Island Restoration Ba BOEMRE/ BA-65 Small Dredge Program BA-65 Fiff Island Restoration Ba BOEMRE/ BA-65 Fiff Island Restoration Ba BOEMRE/ BA-65 Shoreline Protection at Shorelin		28	28	28	54	105	105	88	28	36	36
BA-59 Waterline Booster Pump INF FWS BA-61 Conservation and Conservation Passimilation Plant RWS BA-63 Small Dredge Program MC FWS BA-64 Jump Basin Dredging MC FWS BA-65 Fift Island Restoration BI BOEMI Extension NA Through Existing Berns LA FWS and Board Roads Shoreline Protection at Shoreline Protection at Shoreline Protection Shor	toshods Ash	18	18	18	20	-	∞	82	18	27	30
BA-59 Waterline Booster Pump INF Station, West Bank Wetland Conservation and Protection Assimilation Plant MC Assimilation Plant Assimilation Plant MC Assimilation Plant Assimilat	445.1 13.0 (6) 14	BOEMRE/ FWS	BOEMRE/ FWS	BOEMRE/ FWS	BOEMRE/ FWS	BOEMRE/ FWS	BOEMRE/ FWS	BOEMRE/ FWS	BOEMRE/ FWS	BOEMRE/ FWS	BOEMRE/ FWS
BA-59 Waterline Boos Station, West Bank W West Bank Wa Assimilation Protectic Protecti		IN.	LA	MM	DM	MC	BI	ΓĀ	SP	Sb	SP HR
		Waterline Booster Pump Station, West Bank	West Bank Wetland Conservation and Protection	West Bank Wastewater Assimilation Plant	Small Dredge Program	Jump Basin Dredging and Marsh Creation	Fifi Island Restoration Extension	Culvert Installation Through Existing Berms and Board Roads	West Lac Des Allemands Shoreline Protection	Shoreline Protection at Intracoastal Park	South GIWW Restoration
CIVb CIVb CIVb CIVb CIVb CIVb CIVb CIVb	it ships	BA-59	BA-61	BA-62	BA-63	BA-64	BA-65	NA	PO-90	CS-36	CS-37
	Program	CIVb	CIVB	CIVb	CIVb	CIVb	CIVb	CIVb	CIAP	CIAP	CIAP

### RISH CIAP PROJECTS

Planning Unit	4	4	4	4	4	4	4	4	4	4
Collegitud Col	The project is a 1,200 acre marsh restoration/protection project located in Calcasted Parish. Louisiana, approximately 3.0 miles northwest of Hackberry. This project propsess four different components. I. Thow water control structures, 2. Four miles of new levee construction; 3. Repair of I mile of existing levee assertments, and 4. Placement of approximately four miles of rep rap nock dike along the Gulf Intracoastal Waterway (GIWW).	This proposal refers to the Chenier Plain portion of Coast 2050, Region 4, Johnson's Bayou Ridge mapping unit. The project features include the replacement of existing water control structures (two 24 inch culverts) that are currently not functioning as designed, and the refurbishment of one mile of adjacent levees.	This project features include: 1) the replacement of one existing 24 inch water control structure that is currently not functioning due to storm impacts and 2) the refutibilishment of approximately 4,000 linear feat of adjacent leaves. The new structures will reduce saltwarer intuision into the project area and restore historic saltinity and hydrologic regimes. Without this project the 600-acre intermediate and brackish marsh will experience extensive interior marsh loss.	The project is located in the Calcasieu-Sabine Basin, in the West Cove of Calcasiee Lake. The goal of the project is to restore approximately 200 acres of pelican nesting and marsh habitat to Rabbit Island by adding sediment, through the beneficial use of sediment dredged from the Calcasieu Ship Channel, and 2,500 linear feet of small limestone shoreline protection to the west corner of Rabbit Island.	This project will provide the engineering and design in order to continue the construction of approximately two miles of rip-rap dike from Dugas Landing to Kelso Bayou and reclaim eroded channel bank utilizing spoil material from dredging activities when more funding becomes available to the parish.	This project is located along Little Pecan Bayou in the south central portion of Cameron Parish. Project features include the installation of one bulkhead with four 48 inch water control structures at the location of an existing plug. The objective of the proposed project is to repair the water control structures so that pre-Hurricane Rita stilnity and water levels can be restored to approximately 1,500 acres of marsh.	This project is located on the east end of Little Chenier Road and south of the Big Burn Marsh. Approximately 2,700 linear feet of roadway needs to be raised approximately wo feet to an elevantion of +4 feet NAVD, to prevent excessive flooding south of the Little Chenier Road by stopping water from overtopping the road during abnormally heavy rain events and flooding the marshes south of Little Chenier Road.	The project is located north of the Gulf Intracoastal Waterway (GIWW) approximately 10 miles northwest of Hackberry in Caleasieu Parish, Louisiana. Th goal of this project is to extend the rock armored shoreline stabilization by one mile adjacent to the GIWW to prevent continued erosion of the GIWW levee and to prevent the encroachment of the GIWW into the marshes north.	This proposal refers to the Chemer Plain portion of Coast 2050, Region 4, Big Burn mapping unit. Project features include the replacement of one existing water control structure (three 8-foot bays) that is currently not functioning as designed.	This proposal refers to the Chenier Plain portion of Coast 2050, Region 4, Little Peean mapping unit. Project features include the replacement of three existing water control structures (three 4 inch culverts) that are currently not functioning as designed, one new water control structure (that includes three 48 inch culverts), and the refurbsiment of portions of three miles of existing levees (adding in some locations 2 feet of material to return the levees to +3 feet NAVD).
	000'059'1\$	\$618,700	\$514,850	\$1,559,460	V/N	\$638,030	\$262,888	\$1,825,000	\$670,138	\$1,735,121
* 187 STEPHEN	\$350,000	\$54,000	\$48,000	\$440,540	\$580,000	\$37,611	\$16,493	\$175,000	\$52,572	\$133,641
dollalding of	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Pallaliad Salay	Pending	Pending	2012	Pending	N/A	2010	2010	Pending	2010	Pending
No. Line	1,200	N/A	009	200	N/A	1,500	N/A	1,500	10,000	24,600
Straig Strott	Cal.	Cam.	Cam.	Cal. Cam.	Cam.	Cam.	Cam.	Cal.	Cam.	Cam.
OIT OILISTS	33	47	47	47	47	47	47	36	47	47
to strate for the state of the	30	25	25	25	25	26	25	30	25	25
add valed	BOEMRE/ FWS	BOEMRE/ FWS	BOEMRE/ FWS	BOEMRE/ FWS	BOEMRE/ FWS	BOEMRE/ FWS	BOEMRE/ FWS	BOEMRE/ FWS	BOEMRE/ FWS	BOEMRE/ FWS
	HR	HR	HR	DM MC SP	PL	HR	HR	SP	HR MM	HR MM
SIDN SOS OF THE STATE OF THE ST	Horseshoe Lake Marsh Restoration	South Johnson Bayou Restoration	Dreary Island Restoration	Rabbit Island	Bank Stabilization: Dugas Cut to Kelso Bayou	East Little Pecan Bayou Restoration	Little Chenier Road	Clear Marais Bank Protection	West Big Burn Bridge Restoration	South Little Peean Bayou Restoration
TH ORES	CS41	CS42	CS-43	CS-44	CS48	CS-50	CS-51	CS-52	ME-26	ME-27
Ргодгата Р	CIVb	CIVb	CIVb	CIVb	CIVb	CIVb	CIVb	CIVb	CIVb	CIVb

### STORI CIAD DRO LECTS

Planning Unit	4	4	3a	3a	3b	36	3b	3b	3b	36	3b
Color Project Summary	This project will replace 12 existing water control structures that are not currently functioning as designed and also reithbish 1.5 miles of adjacent levees. Cameron Parish will purchase the structures that will be installed by the local gravity dramage district. The objective is to restore the pre-Hurricane Rita salinity and water levels to approximately 10,000 acres of marsh.	This project will provide necessary financial assistance to Calcasieu Parish Government to manage and implement the CIAP program.	This project will remove excessive accumulated sediment from Mttakapas Cunal att its intersection with Lake Verter in Assumption parish for a distance of approximately 2,000 feet improving water quality, fisheries habitat, and sport fishing access. The removed sediment will be beneficially used to restore approximately 12 acres of bald express habitat along the shoreline of Lake Verret. As part of the project, express trees will be planted at the rate of 302 trees per restored acre.	Located in west-central Assumption Parish, Lake Verret accumulates sediment in its shallow areas. The proposed project will use a hydraulic dredge to remove material that will be used beneficially. The project objective is to remove accumulated sediment from Lake Verret and improve the condition of 40 acres of deteriorating lake rim and adjacent swamp habitat.	The project is located in Region 3. Atchafilaya River Basin, St. Many Parish, along the southeastern shoreline of East Cote Blanche Bay, around Point Chevreuil and the northwestern shoreline of Acthaflaya Bay, The erdoing shoreline was caused by the open water fetch and resulting wave energy from East Cote Blanche and Archafalaya Bays. Project features will protect the natural ridge functions of the Bayou Sale Ridge and protect the adjacent marshes.	Located in St. Mary Parish, this project near the mouth of Deer Island Bayou will dredge a 5.280 foot long, 280 foot wide channel to improve water and sediment flow into northeast Atchafalya Bay. The dredged material will be beneficially used to reduce shoreline erosion and to create about 30 acres of marsh.	This project located in St. Martin Parish will construct an open-air pavilion and a 1,235 fool long nature trail adjacent to an existing wilderness cance trail. This project will serve as a gateway to the Atchafalaya Basin providing public access, information and educational opportunities. It will ultimately tie into Lake Fausse Point State Park.	This project will include an upgrade of the existing wastewater treatment plant infrastructure and construction of a discharge structure and piping system into the adjacent welfands for welland assimilation. Stephensville wastewater felily is located in Stephensville along Bayou Milhomme in Lower St. Martin Parish.	This project consists of a combination of multiple actions including dredging, gapping and creating inline-sediment traps in and adjacent to Beau Bayou in St. Martin Parish. This will correct existing sediment overload and lack of oxygen (hypoxia) improving fisheries habitat as well as the overall health of the system.	Feasibility Study of methods of marsh creation to build landmass and create vegetated wellands. Project will evaluate various methods to create a sediment deposition field and protect the existing shoreline. This will enhance natural processes to create landmass between Weeks Bay and the GIWW and protect it.	The project is located in Iberia Parish, and will aid the Port of Iberia in its day-to-day operations. This project will replace the bridge on Port Road over Rodere Lateral. The existing bridge is approximately 28 feet wide and 60 feet long. The Port of I beria handles a substantial amount of OCS produced products and the large equipment used in transporting these products take a major toll on the port, is bridges and roadways.
* 180. 5 181 1810 S	\$3,006,631	N/A	\$977,000	\$4,634,146	\$1,655,704	\$2,440,352	\$342,050	\$2,200,002	\$3,360,461	N/A	\$391,807
Po Colling to State of the Collins o	\$211,141	\$20,000	\$48,000	\$115,000	\$204,461	\$313,413	\$47,950	N/A	\$340,960	N/A	\$66,465
HODAID STATE OF THE STATE OF TH	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	\$200,000	N/A
Paylata Salax	2011	N/A	Pending	Pending	Pending	Pending	Pending	Pending	Pending	N/A	2012
18 That	10,000	N/a	12	40	25	90	N/A	S	23,000	N/A	N/A
DITIBIL SANDIF	Cam.	Call.	Asu.	Asu.	StM.	StM.	StMt.	StMt.	StMt.	Ibe. Ver.	Ibe.
17 Silling States	47	36	09	09	50	51	46	50	46	49	49
toshods solls	25	27	21	21	21	21	22	21	22	22	22
844. 10316 PA	BOEMRE/ FWS	BOEMRE/ FWS	BOEMRE/ FWS	BOEMRE/ FWS	BOEMRE/ FWS	BOEMRE/ FWS	BOEMRE/ FWS	BOEMRE/ FWS	BOEMRE/ FWS	BOEMRE/ FWS	BOEMRE/ FWS
	HR MM	PL	DM HR	DM	MC SP	DM HR MC	PA	MM	HR	Td	INF
**************************************	North Mementau Restoration	Calcasieu Parish Administrative Assistance	Attakapas Canal Hydrologic Restoration	Lake Verret Swamp and Lake Rim Restoration	Point Chevreuil Shoreline Protection	Deer Island Pass Realignment	Bayou Amy Boat Launch and Educational Pavilion	Stephensville Wastewater Assimilation and Facility Restoration	Beau Bayou Water Quality and Sediment Reduction	Weeks Bay/Commercial Canal Marsh Creation and Shoreline Protection	Port of Iberia Bridge Replacement - Port Road over Rodere Lateral
to olding.	ME-30	NA	TE-59	TE-60	AT-06	AT-07	AT-08	AT-09	AT-10	TV-24	TV-25
Ргодгат	CIVb	CIVb	CIVb	CIVb	CIVb	CIVb	CIVb	CIVB	CIVb	CIVB	CIVb

### ARISH CIAP PROJECTS

Planning Unit	36	36	3b	3b	36	36	36	36	36	3b	3b	36
Control Project Summary	The project is located in Iberia Parish on the Marsh Island State Wildlife Refuge, and will construct approximately 55 acres of shallow bay bottom terraces planted with native vegetation. The construction of the terraces will result in the direct creation of 34 acres of marsh and it is anticipated that construction of the terraces will result in a 50% reduction in the erosion of the neighboring shoreline.	The project is located in Iberia Parish on the Marsh Island State Wildlife Refuge, and will construct approximately 55 acres of shallow bay bottom terraces planted with native vegetation. The construction of the terraces will result in the direct creation of 53 acres of marsh and it is anticipated that construction of the terraces will result in a 50% reduction in the erosion of the neighboring shoreline.	The project is located along the Vermilion Bay Shoreline south of Tigre Lagoon; if will establish approx. 8.30 linear feet of shoreline using the wave dampening structure determined to be most feasible. These structures will also allow for seedingent trapping and accretion.	This project will provide necessary financial assistance to St. Mary Parish Government to manage and implement the CIAP program.	This project in St. Mary Parish at the Burns Point Recreation Park adjacent to East Cote Blanche Bay, will provide a 600 foot sheet bulkhead and walkway along the park's shoreline. This will stop the rapid erosion that is occurring at the park's shoreline and provide access for inspection.	The project is located in Berwick and extends to Morgan City in St. Mary Parish. This project it'll upgade Thougawan Road from Hwy 90 to the Rever Road, as a result it, the project will increase capacity, and improve safety and efficiency durin normal operations. The road improvement feature includes the widening of the existing road. The preliminary project benefit is to provide improved traffic flow and safety while increasing roadway access to the industrial and commercial fibrilities located in Bewrick, Louisiana.	Funds will be available to assist Vermilion Parish in improvements to the Coastal Zone Management plan for the parish.	This project is located in Vermilion Parish. The goal of the project is to armor the shoreline via 8,759 linear feet of onshore revetment for the south shoreline of Vermilion Bay at Southwest Point. The finds allocated in the current project would be used to initiate surveying, geotechnical investigation, engineering, design and permit development so that when additional funds become available this project will be able to proceed to construction in a more-timely manner.	This project will realign approximately 2,000 linear feet of LA Hwy. 331, at a location approximately 3 miles south of LA Hwy.14. This segment of the roadway has a reverse curve that represents a safety hazard for traffic traveling this highway to the Henry Hub.	This project will install 1,500 feet of cement bags at Tiger Point in Vermilion Parish to slow erosion rates by half.	This project will replace an existing three span timber bridge with a four span concrue deck bridge for the Charlie Field Road Bridge across a tributary of Bayou Tiger. The bridge is located approximately 2,300 feet south of LA Hwy. 14, in leastern Vermition Parish.	This project provides for the reconstruction of several roadways in the Intracoastal City area to mitigate the damage caused by heavy oilfield support muck traffic over the years. The streets to be improved are as follows: Offshore Road (4,700 linear feet), M. L. Liquid Road (830 linear feet), Barge Road (1,450 linear feet), Teal Road (1,200 linear feet).
**************************************	\$1,094,130	\$645,554	\$4,662,196	N/A	\$1,010,000	\$1,018,761	N/A	N/A	\$272,299	\$1,199,130	\$371,201	\$469,416
**************************************	\$66,500	\$66,500	\$330,000	\$25,000	V/N	\$134,000	\$100,000	\$217,782	\$39,500	\$186,455	867,000	\$51,400
GOJAIGIA STORY	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Day John Salar	2013	2013	2012	N/A	2011	2012	N/A	N/A	Pending	Pending	2011	2011
(Silver)	55	55	132	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1311870 3870017	Ibe.	Ibe.	Ibe.	StM.	StM.	StM.	Ver.	Ver.	Ver.	Ver.	Ver.	Ver.
SI SILISITO STRIES	49	49	49	50	90	\$0	47	47	49	47	49	47
to statis satisfies	22	22	22	21	21	21	26	26	26	26	26	26
ART DOSCOLA	BOEMRE/ FWS	BOEMRE/ FWS	BOEMRE/ FWS	BOEMRE/ FWS	BOEMRE/ FWS	BOEMRE/ FWS	BOEMRE/ FWS	BOEMRE/ FWS	BOEMRE/ FWS	BOEMRE/ FWS	BOEMRE/ FWS	BOEMRE/ FWS
	MC SP VP	MC SP VP	SP V	. PL	SP	INF	PL	PL	INF	SP	INF	INF
States to State of the State of	Lake Sand Terracing	Lake Tom Teracing	Vermilion Bay Shoreline Restoration	Planning Assistance and Administration (St. Mary Parish)	Bums Point Recreation Park Improvements	Thorguson Road Improvements	Vermilion Parish CZM Planning and Development	Shoreline Protection on Southwest Point at Southwest Pass	Henry Hub Acess Improvements - Highway 331 Realignment	Shoreline Protection and Marsh Creation at Tiger Point	Henry Hub Access Improvements - Charlie Field Road Bridge Replacement	Intracoastal City Street Improvements
th orbits	TV-32	TV-33	TV-35	TV-36	7V-37	TV-38	TV40	TV41	TV-44	TV-45	TV-46	TV-49
Program	CIVb	CIVb	CIAP	CIAP	CIAP	CIVb	CIVb	CIVb	CIAP	CIVb	CIVb	CIAP

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Planning Unit	3b	36	98		
Constitution Cost	This project provides for the widening and reconstruction of Charlie Field Road, a vital link between LA 14 and the Henry Hub, from LA Hwy. 14 to LA Hwy. 331 in eastern Vermilion Parish. The project will widen the existing 18-foot wide roadway to a 20-foot surface for approximately 4,100 feet to provide room for the truck traffic to utilize this stretch of the roadway to access the Henry Hub.	This project will create a one mile oyster reef 1,300 feet from shore by using approved available materials. Oyster spat are plentiful in this area; therefore, creating this base will establish a living sustainable reef. This project will reduce th shoreline loss rate by half. It will slow down wave energy, attract fish and shellfish habitat, slow coastal crosion, and increase recreational fishing opportunities.	This project is located on the east bank of the North Prong of Schooner Bayou, from the GIWW to the Schooner Bayou Locks. With several breaches to contain, the project will employ culverts with flap gates to allow the freshwater flow to continue into the marshes to the east, while preventing uncontrolled saltwater intrusion into the Mermentan Basin.		
	\$442,000	\$1,229,184	\$1,595,723		
***O Allights	\$87,270	\$209,800	\$54,277		
Ololdino de C	V/N	V/A	V/A		
1 35% /	2012	Pending	2010		
North T	N/A	N/A	N/A		
Strike Strott	Ver.	Ver.	Ver.		
SIIS OF STREET	49	47	49		
toshods Ton	26	26	26		
44.21 12.300 ft	BOEMRE/ FWS	BOEMRE/ FWS	BOEMRE/ FWS		
	INF	SP	FD		
**************************************	Henry Hub Access Improvements - Charlie Field Road Improvements	Oyster Reef Parallel to Cheniere au Tigre	TV-53 North Prong Schooner Bayou		
34 alas	TV-50	TV-51			

gram: CIAP= Coastal Impact Assistance Program
get Type: BI=Barrier Island; DM=Beneficial Use of Drodged Material; FD=Freshwater Diversion;
Finfratructure; LA=Land Acquisition; MC=Marsh Creation; MM=Marsh Management; OM=Outloops: ONS=Selfment and Acquisition; TSP=Shrontine Protection: VD=Vocaration Parties
protection: VSP=Selfment and Parties

Pansh Asc=Ascension, Asu=Assumption, Cal=Calcasieu, Cam=Cameron, Ibe=Iberia, Jef=Epflerson, Laf=Lafourche, Liv=Livingston, Orl=Orleans, StC=St. Charles, StJa=St. Ja StJo=St. John the Baptist, StM=St. Mary, StMt=St. Marin, StT=St. Tammany.

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### Appendix E

Inventory of Non-State Projects

### B. Federal Protection Projects

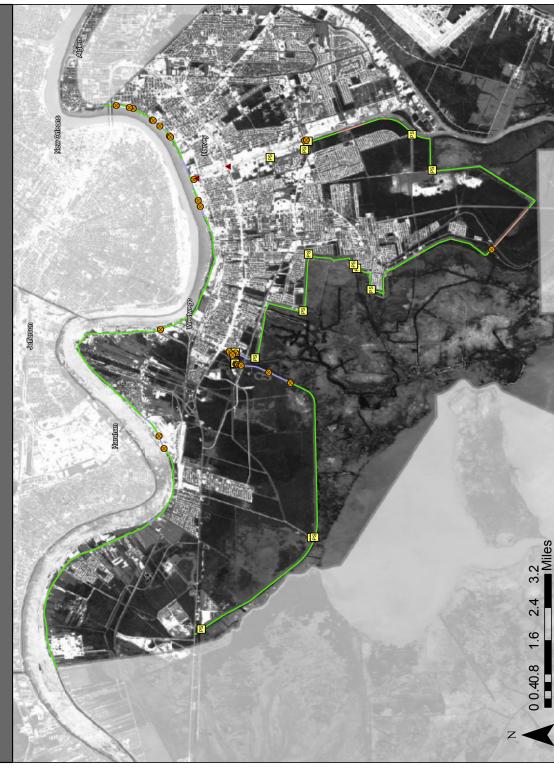


### Levee Construction Type



Date: April 28, 2009 Imagery: 2000 SPOT

# WEST JEFFERSON LEVEE DISTRICT LEVEE ALIGNMENTS & STRUCTURES



### Legend

### Levee construction types

- Earthen Levee
  - Sheet Pile
- Control Structure Flood Gate
- Water Bodies

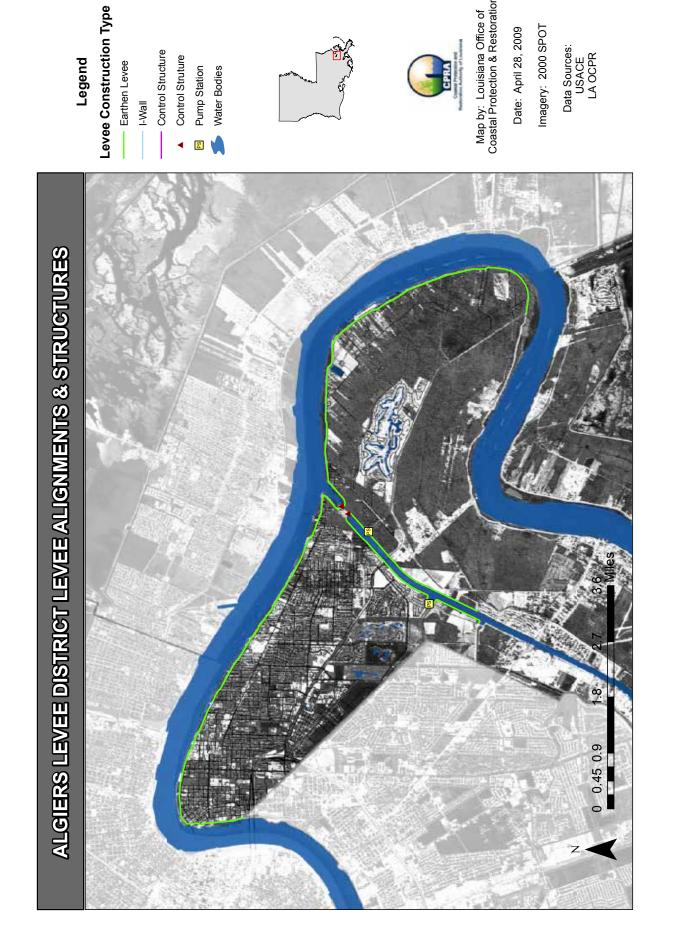


Map by: Louisiana Office of Coastal Protection & Restoration

Imagery: 2000 SPOT

Date: April 28, 2009



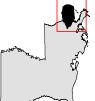


# LAKE BORGNE BASIN LEVEE DISTRICT LEVEE ALIGNMENTS & STRUCTURES

#### Legend

#### Levee Construction Type

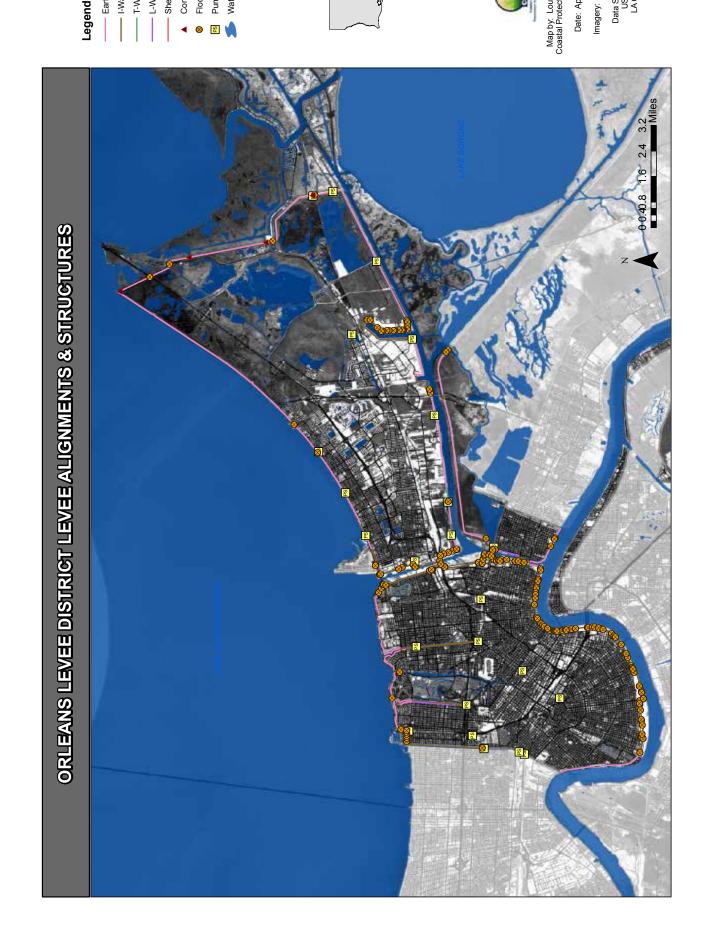






Map by: Louisiana Office of Coastal Protection & Restorati Date: April 28, 2009

Imagery: 2000 SPOT







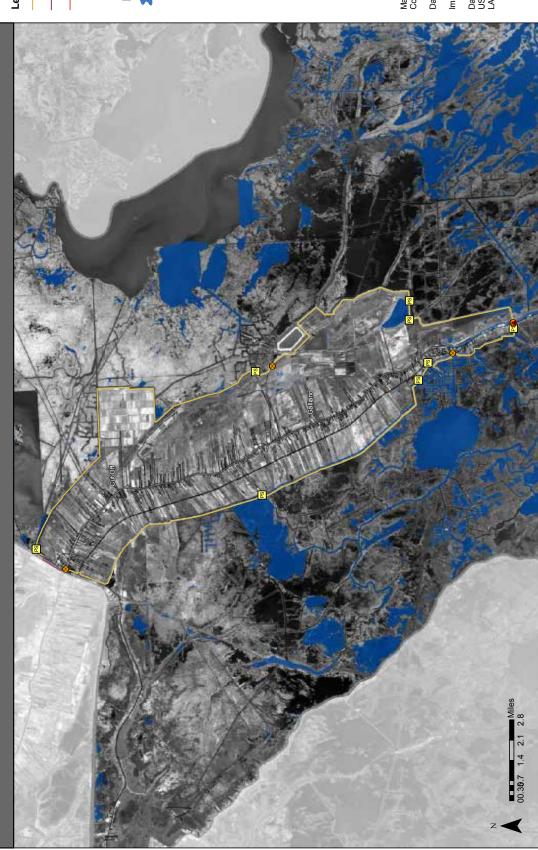
# PONTCHARTRAIN LEVEE DISTRICT LEVEE ALIGNMENTS & STRUCTURES







# SOUTH LAFOURCHE LEVEE DISTRICT LEVEE ALIGNMENTS & STRUCTURES



#### Legend





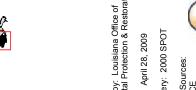




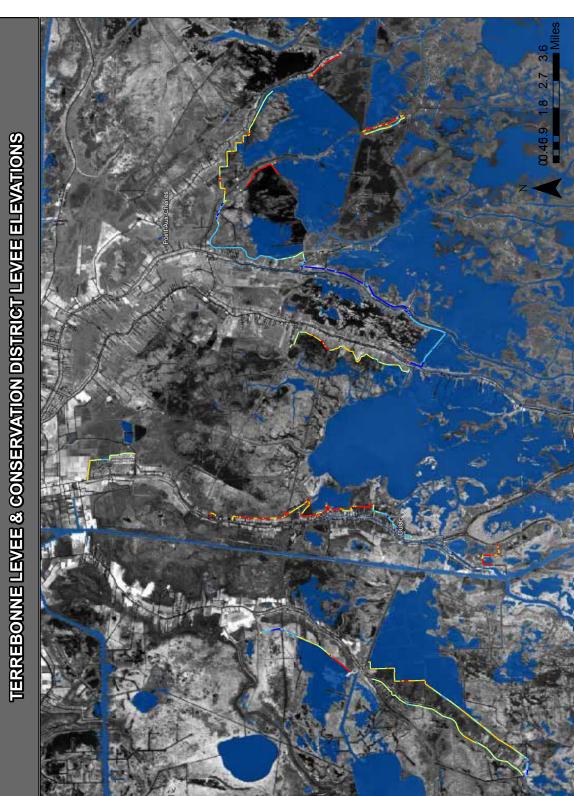
Map by: Louisiana Office of Coastal Protection & Restor

#### Legend Levee Elev









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#### **Appendix E**

Inventory of Non-State Projects

#### C. Projects and Project Concepts in Coastal Parish Master Plans

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Planning Unit	3a	За	3a	3a	3a	3a	3a	3a	3a	За	3a	3a	3a	3a	3a	3a	3a	За	3a	3a	3a	3a	За
	3	ε.	3	e,	e	3		e	е е	3		ε,	e e			۳ 		3		e 	e	3	e
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 GIWWV 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 benefitied.	Proposed project components include installing three control structures along the rim of the lake and enlarging Lapeyrouse Canal to allow the controlled diversion of the Atchafalaya River water, nutrients, and sediments south into project are a mashes. 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 Terrebonne 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 detenioration.	This pump station project is the largest among those considered at 1350 cfs. Utilizing stormwater drainage from the Houma area. freshwater will be introduced to the marshes north of Lake Boudreaux in an area currently impacted by saltwater furtusion and subsidence. This project works in conjunction with Ashland Freshwater Introduction and Weltand Assimilation.	Installation of a water control structure between GIWWV and Grand Bayou and dredging of Grand Bayou will be added in order to increase the amount of water available to this region of Terreborne 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 restablishment of Atchafalaya River influence.	Description not provided.	Pump station D19 will divert approximately 200 cfs of freshwater east of Bayou Dularge into an area of marsh currently experiencing sattwater intrusion and a high rate of subsidence.	Pump station D18 will be used to introduce approximately 200 cfs of freshwater to the marshes north of Falgout Canal. Marshes in this area are at risk of further deterioration due to saftwater intrusion.	Description not provided.
\$1600 table to	Not provided	Not provided	Not provided	Not provided	Not provided	Not provided	\$5,000,000 - \$20,000,000	Not provided	\$5,000,000 - \$20,000,000	Not provided	\$500,000	Not provided	\$2,000,000 - \$5,000,000	\$5,800,000	\$5,000,000	\$500,000	\$5,000,000 - \$20,000,000	Not provided	\$10,000,000	Not provided	\$500,000	\$500,000	Not provided
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Pality 12 Project Services	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
*1614 R307	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
Ргодгат	Α/N	A/N	∀/N	A/N	∀/N	Α/N	∀/N	A/N	A/N	A/N	A/N	∀/N	∀/N	∀/N	∀/N	∀/N	∀/N	A/N	A/N	A/N	∀/N	A/N	A/N

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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 to evert storm water drainage into the LaBranche Wellands 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/Califomia bay/Bohemia Diversion.	Bayou Lamoque Diversion.	Caemarvon Diversion.	Fort St. Phillip Diversion.	Grand Bay Diversion.	White's Ditch Diversion.	Breton Sound Land Bridge.	Baptisie 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 PeroV Little Lake intersection.	The project includes the development of an area-wide sediment delivery system. This system would utilize sediment that are involucially-dredged from the Mississipp River, and transported via slurry pipelines to the largeted marsh sites. The existing rock dives at Dure Cut will act as a retention feature to ensure that the sediments are successfully distributed into the target areas.
\$1600 Halion	\$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
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RAILIN LOGIC LI ROCI	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
*6 <sub>t</sub>	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	∀/N	∀/N	∀/N	A/N	A/N	∀/N	∀/N	∀/N	∀/N	Α/N	A/N	A/N	A/N	A/N	A/N	A/N	Α/N	A/N	A/N	A/N	A/N	A/N	∀/N	A/N	∀/N	∀/N	CWPPRA	CWPPRA	СМРРRА

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	The project would be conducted in three phases. Phase I would involve placing a dedicated dredge in the Barataria Bay Waterway that would retrieve sediments from the bottom of the waterway and place them behind the existing rock armor along the eastern shore. Phase II would include constructing a rock along the solution should necessare shoreline of The Pen and using a dedicated dredge to place materials behind it. Phase III would consist of reinforcing the existing protection along the southwestern shore of 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 materials.	This project proposes to strategically place four sheetpile barriers in the Barataria Bay Waterway as a means of reestablishing historic levels of hydrologic exchange within the area. This project would help protect the integrity of the shorelines of the Dupre Cut portion of the Barataria Bay Waterway. The project would also restrict channel dimensions to limit saftwater intrusion, itidal prism, and enhance freshwater retention.	The project would reconstruct breached shorelines, then restore interior marsh elevations and sand dune features.	This project is designed to fortify the region on the southern side of a portion of the Land Bridge Project - Phase 3. The wetland area is being hydrologically degraded by interior exposure from the oilfield canal breaches and shoreline ension along surrounding water bodies. The project would construct approximately 28,000 feet of shoreline protection interspersed with viable oilfield canal closures, followed by the placement of dedicated dredge material to restore elevations of degraded wetland areas. The final identification of viable canal dosure and wetland fill targets would be established during project design to maximize project effectiveness and minimize oil and gas impacts.	Approximately 8,000 linear feet of additional shoreline protection would be added along the west side of Goose Bayou to lis 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 so provide for the restoration of former borrow pits along LA Highway 1. Restoration of the former borrow pits would include the degradation of pit levees, followed by the placement of fill. Future dedicated dredging projects could be initiated for the purpose of restoring basin areas between the restored ridges to restore natural elevation and hydrologic gradients.	This project will restore the natural ridges that historically sustained the area's complex hydrology. Existing banklines will be followed and breaches will be plugged to interconnect existing land masses, and would thus create a series of ridges. The northern flege would be constructed along a portion of the north brank of Bayou Dupont that lies between its intersection with oil and gas canals in the Sea Deuce area, wesward from the intersection with the southeast bank of Chenier Traverse Bayou. The southern ridge would be constructed from the intersection of the Barataria Bay Waterway with the historical Bayou Barataria ridge, north of Dupre Cut, and would then veer southeastward, along 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 filed, 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 proted the integrity of the north shoreline of Bayou Rigulettes at its intersection with Bayou Barataria near Laffle, and would provide protection for the foundation and site of an existing water tank facility that provides probled drinking water to the coastal community of Grand Isle. The project would also eliminate further erosion of the north bank of Bayou Rigolettes 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 sallwater intrusion and extreme tidal exchange.
	\$34,800,000	\$7,600,000	N/A	000'000'6E\$	\$5,000,000 -	\$3,000,000	\$19,000,000	\$6,230,000	\$2,230,000	\$1,040,000	\$1,300,000
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<i>&gt;</i>	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
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Planning Unit	2	2	2	2	2	2	2	2	2	2	2	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 offshore pipeline corridor. This alternative would construct a rock dike along an approximately 2-mile section of Grand Isle shoreline to directly protect the beach by armament.	The project is designed to protect Grand Isle's southern shoreline from erosion which may eventually affect the integrity of an offshore pipeline corridor. This alternative would construct approximately 1,26 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 Vesign phase would include survey, geotechnical testing, miligation, 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 pennism. 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 affectiveness.	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 Eimer's Island as a publicly accessible primitive area.	The project involves the development of mult-use facilities to provide individuals of all physical capabilities with onsite recreational opportunities. The development will also afford them access to the adjacent wellands, nearby State and Federal parks, and the abundant natural and cultural experiences offered by Louisiana's wellands.	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 restit channel dimensions at various locations in order to limit saltwater intrusion, iddal 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. Whater 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 roce main. Water control structures and a flow distribution system would also be constructed to channel the flow through the wellands. The outlet of the discharge line would be placed at the most hydrological 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.	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 Scoffeld 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 finge on the backside of the islands across 2.4 miles, approximately 10 feet high and 2000 feet wide.	Barrier Island E of Bay Coquette to Sandy Point.
\$1600 KB/KG	\$2,400,000	\$1,600,000	\$1,750,000	\$125,000,000	N/A	\$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
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Palen is a second	Grand Isle Oil and Gas Pipeline Corridor Shoreline Protection - Altemative 1	Grand Isle Oil and Gas Pipeline Corridor Shoreline Protection - Alternative 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
* RILITA JORGIA PROG	BI-5	BI-5	LAF-3	PR-11	NA-8	BI-3	CS-4	BB-1	NA-1	NA-6	CS-3	BI-6	N/A	N/A	N/A	N/A	N/A	N/A	A/N
Program	СІАР	СІУЬ	СІАР	АЯАЭ	CARA	CARA	AAAO	CARA	State and Local	State and Local	State and Local	State and Local	∀/N	A/N	Α/N	Α/N	Α/N	A/N	∀/N

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Project Summary	Sandy Point/Bay Coquette.	Restoration enhancement including elevating dunes and widening islands and planting a mangrove finge 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 Hemitage.	Ridge North of Bay de la Cheniere (West of Nairn).	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 Venioe 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 beasures would halt salkwater infrusion into the basin, preserving the integrity of the Mermentau Basin and create surge protection for the communities, agricultural economy and act as another line of defense against storm surges caused by tropical storms and buricanes.	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.
\$ROJ ROBING	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 Pales	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
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**RIUN LOGO LI ROO;	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	Bayon 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
*fo <sub>t</sub> d <sub>Roo</sub> ;	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	FD 8	FD 42	FD 6	FD 7	FD 9	FD 10	FD 28
Ргодгат	∀/N	∀/N	A/N	∀/N	∀/N	A/N	A/N	Α/N	∀/N	∀/N	A/N	A/N	A/N	∀/N	∀/N	∀/N	A/N	Α/N	Α/N	Α/N	A/N	A/N	A/N	A/N	∀/N	∀/N	∀/N	A/N	A/N	∀/N	A/N	∀/N	∀/N	∀/N

Planning Unit	3a	3a	За	3a	3a	За	За	За	За	3а	3а	За	3а	3a	3a	3a	За	3a	За	За	За	3а	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 salinities to the south. Features include 160 acres marsh nonrishment along the northern and western shoreline of Lost Lake, 30 acres terracing to reduce fetch in the northeast of Lost Lake, 30 acres for 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 Akchafalaya River to create marsh of Point Au Fer Island.	Description not provided.	Description not provided.	Description not provided.	Description not provided.
Str. Additor	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
P. Hole	Ter.	Ter.	Ter.	Ter.	Ter.	Ter.	Ter.	Ter.	Ter.	Ter.	Ter.	Ter.	Ter.	Ter.	Ter.	Ter.	Ter.	Ter.	Ter.	Ter.	Ter.	Ter.	Ter.
Dieso State	51	51	51	53	53	53	51/53	53	53	51	51/53	53	53	51	53	53	51	75	51	53	53	51/53	53
add to state of the state of th	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	50	20	20	20	20	20
*65	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
**************************************	Marsh Creation North Raccourd 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
**************************************	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	A/N	A/N	Α/N	A\N	A/N	A/N	∀/N	∀/N	A/N	A/N	A/N	A/N	∀/N	∀/N	A/N	∀/N	Α/N	A/N	∀/N	∀/N	A/N	A/N

Planning Unit	3a	3a	За	3a	3a	3a	3a	3a	За	За	За	3a	За	За	3a	3a	3b	3b	35
Sp 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 serves as a conduit for reverse flows generated by storm surge from the Gulf. In this capacity, the canal has carried elevated water levels northward resulting in flooding in Franklin and along UB Hwy 90 (an evacuation routle) during Hurnches Rills and Ike. A closure and levee improvements are proposed to prevent backflow through the canal during surge events. The proposed project uses a floating barge to close the canal and includes sheet pile, earthwork embankment, and levee improvements.	The need for levee improvements in Morgan City was brought to the forefront by FEMA's issuance of new preliminary Digital Flood insurance Rate Maps (DFIRMs) in 2009, recent levee profile surveys, and a subsequent appeal to FEMA issued by the City of Morgan City. Being proactive in flood protection, the distress within Consolidated Gravity Drainage District No. 2. (Morgan City) and vicinity) passed a bond election in late 2009. Proposed levee and purp station insuprovements indicate upgrades to existing flevees 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 backwarder protection from Athadaps in return events and storm surge from the Cutf as well as from stormwater turnful in the Terrebonne Basin north of the city. Upon compelion of this project, backwarder 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-certifiable levee system which offers minimal backwater protection from Bayou Boeul and Lake Palourde. Drainage District No. 6 applied for Statewide Flood Control Program funds to increase the neight 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.
\$ROD DARGE	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
*Alanda Bardy	Ter.	Ter.	Ter.	Ter.	Ter.	Ter.	Ter.	Ter.	Ter.	Ter.	Ter.	Ter.	Ter.	Ter.	Ter.	Ter.	StM.	StM.	StM.
SI <sub>II</sub> <sub>SIC</sub> S <sub>IEI</sub> <sub>SS</sub>	53	51	53	51	53	51	53	51	51	53	53	53	51	53	53	53	90	50	50
Wells State Land Control of the Cont	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	21	21	21
39612	Ŧ	¥	HR	Ħ	HR	Ħ	Ð	HR	Ħ	В	BI	B	В	ВІ	B	B	보	셮	Η
RIIN CROOK	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)
*fo <sub>1</sub> / fo <sub>2</sub> o <sub>3</sub>	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	ΝΆ	N/A
Program	∀/N	Α/N	∀/N	∀/N	∀/N	∀/N	∀/N	∀/N	A/N	Α/N	Α/N	A/N	Α/N	A/N	A/N	A/N	Α/N	Α/N	A/N

Planning Unit	36	qg	ક	36	3B	q <sub>E</sub>	3b	35	36	qg	35	qę.	8
Project Summany	Hanson Canal and Yellow Bayou, both similar to the Franklin Canal, were designated to serve as condults for removal of stormwater following normal rainfall events. However, during hurricanes and related events, both serve as a means for reverse flow generated by sbrm surge. Hurricanes Rita and Ike are recorded example events. Closures and levee improvements are needed to prevent surge flows from moving inland during surge events.	During Hurricane Ike, the Charenton Navigational Canal overflowed its banks and inundated the Yokely drainage area with storm surge. Levee improvements and construction of a berm parallel to Industrial Road and the Charenton Navigational Canal south of US 90 are needed to prevent damages from storm surge inundation.	This alternative is presented as a flood control structure with embankment improvements along both sides of the 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 its tare planned from upgading and proposed federal and/or State funded levees. The finneframe 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 new levee improvements are decades eavay, rependent upon state and federal fundial appropriations. The functional success of this alternative is directly dependent upon completion of proposed federal and state alignments west of the Charenton 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 situcture in Bayou Teche east of its intersection with Charenton 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 Charenton Canal or along or west of the Cypremort Ridge. A short levee extension extending northward from the westernmost end of the Bayou Yokely Levee reach will be required.	Reach W-124 near Turtle's Corner south of the city limits of Berwick has a height deficient section approximately 75 feet wide and 1.5 feet deep. The proposed project, which is a federal responsibility, is to fill and compact the area to ensure levee height and design consistency with the surrounding system.	Within the area defined by Drainage District No. 1, this project requires the elevation of 43 miles of levee to no less than 18 feet MSL. The current levee helpits range from 3.5 feet to 20 feet MSL, and some reaches of the existing levee system have been breached by storm surge.	Afternative 2: 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 Boedt.	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 lits intersection with Lake Palourde, confinues southward east and indusive 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 tes 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 bark of Bayou Boedr, crosses Bayou Boeuf south of the railroad track via a control situcture, follows Bayou Boeuf on the Amelia side southward then turns northwest along the bank, proposes a lock in Bayou Boeuf connection to Avoca Island levee near the Bayou Boeuf Locks at Morgan City.	An additional alternative was presented during the planning process (4E) involving the construction of a backwater protection flood control structure in Bayou Chene south of the 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. Many 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 recomnaissance 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.
\$600 toplot	\$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	
the strong	StM.	StM.	StM.	StM.	StM.	StM.	StM.	StM.	StM.	StM.	StM.	StM.	StM.
Story Street Street	50	50	50	50	50	50	50	50	50	50	50	50	90
Peters Peters	21	21	21	21	21	21	21	21	21	21	21	21	23
**top	НР	НР	£	НР	НР	НР	Ŧ	윤	НР	НР	НР	НР	<u>\$</u>
**************************************	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	Amelia Area - Louisiana State Master Plan Alignment 1E	Amelia Area - SMLD Backwater Prevention Plan 4E
*6 <sub>td [80]</sub>	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
Program	A/N	A/N	∀/N	Α/N	A/N	∀/N	∀/N	A/N	A/N	A/N	A/N	Α/N	Α\V

Planning Unit	3b	35	39	3p	36	36	35	3b	3b	3b	3b	3b	39	39	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 levees along Bayou Sale are proposed for elevation to 18 feet MSL to ensure adequate storm surge protection. Gordy and Ellerslie reaches are included.	This Miller Plan alternative proposes a levee alignment west of the Charenton Canal that generally follows the 5 foot conflour 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 turning south at the Cypremort Ridge, it continues westward crossing the ridge and extends to and beyond the parish line into Iberia Parish.	Scott Canal acts as a conduit for storm surge much link the Franklin Canal. A flood control structure is proposed to ensure adequate flood protection for the west end of the parish.	Kelley Canal acts as a conduit for storm surge similar to others noted. A flood control structure is proposed to ensure adequate flood protection for the west end of the parish.	The Vacherie Canal acts as a conduit for storm surge similar to others noted. A flood control structure is proposed to ensure adequate flood protection for the west end of the parish.	Provide protection to the watershed from storm events by construction of a levee system and water control structures that would link to similar measures in Iberia Parish.	Construct a flood control structure at the intersection of Boston Canal and the GIWW that could be closed in the event of a hurricane or tropical storm that would aid in stemming the rise of flood waters.	A reduction in the cross-sectional area of the channel by installing a structure at the terminal end which could be closed during storm events. An opening in the structure would allow the passage of marine vessels and barges. This would be in conjunction with other measures proposed for the GIWW whereby spoil elevation and armoning along the south side of the GIWW! S 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 intrusion 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 firegiew etlands and also provide protection from storm surges during a tropical storm or hurricane. Measures also would be undertaken to reduce the cross-sectional area of the intersection where Bayou Chene intersects Vermilion Bay.	Using existing idlified 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.
\$\$BOD RAFEE	\$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
<sup>14</sup> H <sub>B</sub> Q 88 <sub>P</sub> Q <sub>F</sub>	StM.	StM.	StM.	StM.	StM.	StM.	StM.	Ver.	Ver.	Ver.	Ver.	Ver.	Ver.	Ver.	Ver.	Ver.
Differ States	50	50	50	50	20	50	50	49	20	47	47	47/50	90	50	47	47/50
Pelis Policy	21	21	21	21	21	21	21	26	26	26	26	26	26	26	56	26
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** ALIEN TO THE TENT THE TENT TO THE TENT	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 Alternative 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
SQLINN 1280 I ISO J	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	A/N	N/A	N/A	N/A	N/A
Пводгат	∀/N	A/N	∀/N	∀/N	∀/N	∀/N	∀/N	∀/N	∀/N	∀/N	∀/N	∀/N	∀/N	A\N	∀/N	∀/N

<u>rotect Type.</u> Bl=Barrier Island; DM=Beneficial Use of Dredged Material; FD=Freshwater Diversion; HP=Hurricane Protection; RFHydrologic Restoration; Inserinfrastructure; LA=Land Acquisition; MC=Marsh Creation; MM=Marsh Management; OM=Outfail slangement; PA=Public Access; PL=Planning; RR=Ridge Restoration; SD=Sediment Diversion; SNT=Sediment and Nutrient Trapping PP=Shoreline Protection; VP=Vsgetation Planting; WH-Wastewater Assimilation.

Paristr: Asc.=Ascension, Asu =Assumption, Cal.=Calcasieu, Cam.=Cameron, Ibe.=Iberla, Jef.=Lefferson, Laf.=Lafourche, Liv.=Livingston, Ort.=Orteans, Plaq.=Plaquemines, SIB.=St. Bernard, SIC.=St. Charles, StJa.=St. James, StJo.=St. John the Baptist, SIM.=St. Mary, SIMt.=St. Martin, SIT.=St. Tammany, Tan.=Tangpahoa, Ter.=Terrebonne, Ver.=Vermilion.

#### PARISH CONCEPTS FROM COASTAL MASTER PLANS

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

#### PARISH CONCEPTS FROM COASTAL MASTER PLANS

STIPS STATE	13.135G 857G	13.135G 857G	Distance Series		15,IAB	SKOJ JOHO	949 Project Summary	Planning Unit
	`	`	*	*				
Calcasieu Ship Channel Marsh Creation		MC	25	47	Cam.	\$620,658,248	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.	4
		MC	25	47	Cam.	\$774,465,811	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.	4
Cameron Meadows Wetland Restoration MC	2	C	25	47	Cam.	\$2,580,279,941	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.	4
Central Canal Marsh Creation MC	Ĭ	()	25	47	Cam.	\$893,862,252	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.	4
Commissary Point Marsh Creation MC	M	()	25	47	Cam.	\$78,427,828	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.	4
East Calcasieu Lake Marsh Creation MC	M		25	47	Cam.	\$3,477,117,831	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.	4
East Calcasieu Lake Marsh Creation	MC		25	47	Cam.	\$12,979,029	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.	4
East Calcasieu Lake Marsh Creation	MC		25	47	Cam.	\$8,847,120	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.	4
East Calcasieu Lake Marsh Creation	MC		25	47	Cam.	\$11,977,646	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.	4
East Calcasieu Lake Marsh Creation & Hydrologic MC Restoration	MC		25	47	Cam.	\$7,071,533	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.	4
East Cove Marsh Creation MC	MC		25	47	Cam.	\$13,832,088	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.	4
East Prong Grand Bayou Marsh Creation Project MC	MC		25	47	Cam.	\$26,566,711	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.	4
Gum Cove Marsh Creation MC	MC		25	47	Cam.	\$780,218,832	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.	4
Kelso Bayou Marsh Creation	MC		25	47	Cam.	\$12,040,467	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.	4
Lake Calcasieu Beneficial Use	MC		25	47	Cam.	\$24,007,981	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.	4
Marsh Creation in Calcasieu Lake - Beneficial Use MC	MC		25	47	Cam.	\$11,022,316	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.	4
Mud Lake Marsh Creation MC	MC		25	47	Cam.	\$918,359,223	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.	4
No Name Bayou Marsh Creation	MC		25	47	Cam.	\$39,478,302	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.	4
North Cameron Meadows Restoration MC	MC		25	47	Cam.	\$87,470,645	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.	4
North Mud Lake Marsh Creation & Nourishment MC	MC		25	47	Cam.	\$38,723,287	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.	4
North West Cove Marsh Creation & Nourishment MC	MC		25	47	Cam.	\$49,018,650	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.	4
North Willow Lake Restoration	MC		25	47	Cam.	\$13,063,672	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.	4
Northwest Calcasieu Lake (North of Hackberry) Marsh Creation	MC		25	47	Cam.	\$3,093,080,570	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.	4
Northwest Calcasieu Lake (North of Hackberry) MC Component A Marsh Creation	MC		25	47	Cam.	\$904,215,130	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.	4
Northwest Calcasieu Lake (North of Hackberry) MC Component B Marsh Creation	MC		25	47	Cam.	\$934,629,690	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.	4
Northwest Calcasieu Lake (North of Hackberry) MC Component C Marsh Creation	MC		25	47	Cam.	\$1,274,052,035	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.	4
Northwest Calcasieu Lake (South of Hackberry) Marsh MC Creation	MC		25	47	Cam.	\$2,569,391,271	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.	4
Northwest Calcasieu Lake (South of Hackberry) MC Component A Marsh Creation	MC		25	47	Cam.	\$1,136,005,097	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.	4
Northwest Calcasieu Lake (South of Hackberry)  Component B Marsh Creation	MC		25	47	Cam.	\$1,442,245,190	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.	4
Rabbit Island Marsh Creation	MC		25	47	Cam.	\$10,217,288	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.	4
Sabine Marsh Creation Browns Lake Area MC	MC		25	47	Cam.	Not provided	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.	4
Sabine Refuge Marsh Creation & Nourishment MC	Ĭ	()	25	47	Cam.	\$53,031,969	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.	4
Sabine Refuge Marsh Creation Project Cycles 6 &7	2	MC	25	47	Cam.	\$22,051,574	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.	4
Southeast Calcasieu Lake Marsh Creation MC	Σ	C	25	47	Cam.	\$1,783,258,033	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.	4
Sweet Lake Land & Oil Shoreline Protection & Marsh MC Creation	Ž	С	25	47	Cam.	\$79,094,433	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.	4
Sweet Lake Marsh Creation MC	M		25	47	Cam.	\$604,964,269	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.	4

#### 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
کوي 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.
\$1500 J.	\$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
this as not	Cam.																														
Silving of Skeller	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
add to the state of the state o	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	ТО	dS	SP	SP	SP						
**************************************	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			
*d <sub>k</sub> o	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
msrgorq	∀/N	∀/N	A\N	A\N	A\N	A\N	A\N	∀/N	∀/N	A\N	∀/N	A\N	∀/N	∀/N	∀/N	A/N	∀/N	∀/N	A\N	A\N	∀/N	A\N	∀/N	∀/N	∀/N	A\N	∀/N	∀/N	∀/N	∀/N	A\N

#### Appendix E Inventory of Non-State Projects

#### D. 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 2018 Capital Outlay Requests

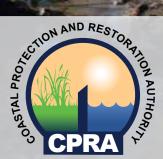
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### STATE OF LOUISIANA DIVISION OF ADMINISTRATION FACILITY PLANNING AND CONTROL State Agency E-Corts Priority List for Fiscal Year 2018

Agency	Department Agency	Agency	Project Request Title	Funding Source	(Year 1)	(Year 2)	(Year 3)	(Year 4)	(Year 5)	Total by Project
Priority	PITOFILY	Number			FY2018	FY2019	FY2020	FY2021	Outlying Years	
				IAT	\$250,000					\$250,000
9	1 2613	9	Ann A Desired	FED	\$55,250,000					\$55,250,000
1 01 13	1 01 13	S)	CPKA Projects	NRR STAT DED	\$24,000,000					\$24,000,000
				CPR STAT DED	\$200,377,888					\$200,377,888
2 of 13	2 of 13	109	West Bank and Vicinity, New Orleans, LA Hurricane Protection (BA-66)	GO Bonds	80	\$50,000,000	\$50,000,000	\$50,000,000	\$1,350,000,000	\$1,500,000,000
3 of 13	3 of 13	109	Lake Pontehartrain, LA & Vicinity Hurricane Protection Project (PO-63)	GO Bonds	08	\$48,000,000	\$48,000,000	\$48,000,000	\$1,296,000,000	\$1,440,000,000
4 of 13	4 of 13	109	Morganza, LA to the Gulf of Mexico Hurricane Protection Project (TE-64)	GO Bonds	\$53,000,000	\$25,000,000	\$32,000,000	\$35,000,000	\$77,845,000	\$222,845,000
5 of 13	5 of 13	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
6 of 13	6 of 13	109	Lafitte Area Tidal Protection (BA-75)	GO Bonds	\$13,500,000	\$5,000,000	\$3,500,000	\$0	\$0	\$22,000,000
7 of 13	7 of 13	109	Western St. Charles Flood Protection	GO Bonds	\$5,100,000	\$0	80	\$0	\$0	\$5,100,000
8 of 13	8 of 13	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
9 of 13	9 of 13	100	North Shore, Lake Pontehartrain Flood Protection (PO-74)	GO Bonds	\$5,000,000	30	80	80	80	\$5,000,000
10 of 13	10 of 13	109	St. Mary Backwater Flooding Protection (AT-024)	GO Bonds	\$5,000,000	\$60,000,000	\$60,000,000	\$0	\$0	\$125,000,000
11 of 13	11 of 13	109	Deleambre-Avery Canal Storm Surge Protection (TV-57)	GO Bonds	\$3,000,000	\$15,000,000	\$8,000,000	SO	08	\$26,000,000
12 of 13	12 of 13	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
13 of 13	13 of 13	100	South Central Coastal Plan (TV-54)	GO Bonds	\$5,000,000	\$34,347,317	\$34,347,317	\$34,347,317	\$1,952,897,049	\$2,060,939,000







Coastal Protection and Restoration Authority P.O. Box 44027 Baton Rouge, LA 70804

www.coastal.la.gov