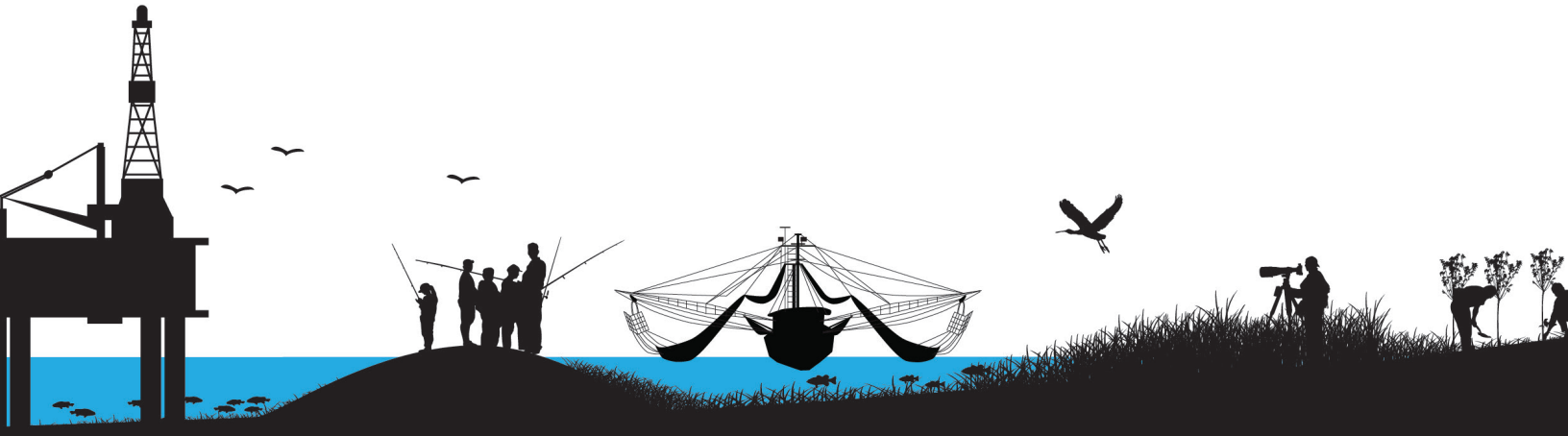
Integrated Ecosystem Restoration & Hurricane Protection in Coastal Louisiana: Fiscal Year 2017 Annual Plan

committed to **our coast**



With the passage of Act 8 of the First Extraordinary Session of 2005 (Act 8), the Louisiana Legislature mandated the integration of hurricane protection activities (e.g., levee construction) and coastal restoration activities (e.g., river diversions or marsh creation). Act 8 also created the Coastal Protection and Restoration Authority (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) 2017 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 2017 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

March 18, 2016

Dear Friends,

I am pleased to submit to you the Coastal Protection and Restoration Authority's *Fiscal Year 2017 Annual Plan, Integrated Ecosystem Restoration and Hurricane Protection in Coastal Louisiana.*

The Annual Plan includes three-year revenue and expenditure projections, project implementation schedules and a program progress assessment. It identifies the immediate actions we will take to continue implementation of the Coastal Master Plan. Included in this year's plan are funds to construct some of the largest barrier island and marsh creation projects in the history of our program and funds that will advance sediment diversion projects which are critical to the long-term sustainability of coastal Louisiana.

As we move forward with the implementation of more complex projects be assured that we are sensitive to the concerns of our stakeholders, and that we will work together to address those challenges. This includes making sure that our contracting processes are fair, and that we are placing more emphasis on small businesses, disadvantaged businesses and Louisiana companies.

We are firmly committed to getting results, as this Annual Plan demonstrates. Continuous improvement is important to this agency and is the key to our success. While acting with the utmost sense of urgency, we are also dedicated to safeguarding and wisely managing our coastal funds in a manner that will withstand intense scrutiny, continuously engaging our stakeholders, and teaming with our partner federal, state and local agencies in this important work.

We have a finite window of opportunity to address our coastal crisis. If we do not act now, we will lose that opportunity. I am honored that Governor John Bel Edwards has entrusted me with the responsibility for leading the fight to save our state's coast. I have faith that the CPRA Implementation Agency and the CPRA Board, led by this governor and this legislature, are up to the task.

I look forward to working with you on this great endeavor. I encourage you to join us as we carry out this Annual Plan and continue our important work of developing the 2017 Coastal Master Plan.

Sincerely,

Johnny Bradberry
Chair, Coastal Protection and Restoration Authority

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Purpose 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 what is being done and why and how it is being done.

Origin of the Annual Plan

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 approximately every five years. These updates incorporate new data and planning tools as they become available. 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 next update will be due in 2017.

Act 523 of the 2009 Regular Legislative Session directed the 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 2017 Annual Plan fulfills the legislative mandate of Act 8 by presenting the CPRA's three-year program for funding and implementing projects during FY 2017–FY 2019.

Additionally, the FY 2017 Annual Plan builds on the process first begun in the FY 2010 plan and provides an expanded discussion of the CPRA's progress in protecting and restoring the coast. Section 2 provides a summary of some of the progress and accomplishments achieved through FY2016; Section 3 outlines an implementation plan for FY 2017; Section 4 gives fiscal projections for FY 2017 to 2019; 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."

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Section 1
Executive Summary

Accomplishments and Notable Projects

Some accomplishments and notable projects completed or in construction in Fiscal Year 16 included:

• Barataria Basin Landbridge Shoreline Protection – Phase 3 (BA-0027-C):): The aim of this project is to reduce or eliminate shoreline erosion for about 22,800 feet along the west bank of Bayou Perot and the north shore of Little Lake through construction of rock dike shoreline protection.

• Mississippi River Long Distance Sediment Pipeline (0043-EB): The project goals are to use sustainable sediment sources to create and nourish marsh in an area where sediment is limited, create a reusable corridor for future restoration projects, and begin restoration of the Barataria Landbridge. The project will create and nourish approximately 542 acres of marsh.

• Bayou Dupont Marsh and Ridge Creation (BA-0048): The project will use sediment from the Mississippi River to create 277 acres of marsh, nourish 93 acres of marsh, create 20 acres (11,000 linear feet) of ridge and use 3.2 MCY cut and 2.15 MCY fill of sediment.

• West Bank and Vicinity (BA-0066): This project provides 100 year protection levels to the Greater New Orleans area on the west side of the Mississippi River in St. Charles, Jefferson, Orleans, and Plaquemines Parishes through rehabilitation or new construction of over 90 miles of levees and structures.

• New Orleans to Venice (BA-0067): The project consists of working with seven levee reaches, comprising 58 miles of major levee enhancement. The project repairs and rebuilds the Empire Flood Gate and Empire Locks and provides repair and fronting protection for several pumping stations.

• Grand Liard Marsh and Ridge Restoration (BA-0068): This project created about 328 acres of marsh, nourished about 140 acres of marsh, and built about 20,000 linear feet of ridge.

• Jean Lafitte Tidal Protection (BA-0075-1): This project will provide flood protection improvements by raising 15,840 linear feet of existing earthen levee. The project will also include approximately 7,600 linear feet of concrete capped, steel sheet pile floodwall, and flood gates.

• St. Charles West Bank Hurricane Protection Levee (BA-0085): This project is a system of levees, drainage structures, and pump stations being constructed to provide flood protection to the communities of St. Charles Parish on the West Bank of the Mississippi River.

• Shell Island West - NRDA (BA-0111): This project aims to restore the integrity of the Shell Island West barrier island, reduce wave energies within the bay area,

and reestablish productive habitat to Bastian Bay and the surrounding area. It will create 328 acres of marsh and 372 acres of dune and beach.

• Caminada Headland Beach and Dune – Increment 2 (BA-0143): This project will restore and protect beach and dune habitat across the Caminada Headland through the direct placement of approximately 5.4 million cubic yards of sandy material from Ship Shoal (an offshore borrow source). A total of 489 acres of beach and dune habitat will be restored.

• Grand Isle – Fifi Island Breakwater (BA-0168): The project included the construct of breakwaters along the southwestern portion of Fifi Island to reduce erosion on Fifi Island and the bay side of Grand Isle in order to protect commercial and residential infrastructure, wetlands, and fisheries.

• South Lake Leary Shoreline and Marsh Restoration (BS-0016): This project involves dredging sediment to create 396 acres of marsh and restoring approximately 32,000 feet of the southern Lake Lery shoreline.

• East LaBranche Shoreline Protection (PO-0043): This project involved the construction of 1,400 linear feet of shoreline protection in critical areas along the East LaBranche wetlands.

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

• Permanent Canal Closures and Pump Stations (PO-0060): This project includes modifications to the 17th Street, Orleans Avenue, and London Avenue drainage canals and installing pumps and closure structures at or near the lakefront to reduce storm surge risk to Orleans and Jefferson Parish.

• Lake Pontchartrain and Vicinity (PO-0063): This project refers to the hurricane protection program around Lake Pontchartrain. This program involves approximately 30 projects in east Jefferson and Saint Charles parishes.

• Central Wetlands Demonstration Expansion (PO-0073-3): This project would restore up to 17.2 acres of critical wetlands using wetlands assimilation of treated wastewater effluent and/or beneficial use of ash/biosolids from the East Bank Wastewater Treatment Plant and other sediment from SWBNO operations.

• Morganza to the Gulf (TE-0064): This project provides protection to Terrebonne and portions of Lafourche against storm events by constructing levees, T-walls, navigation structures, water control structures and floodgates.

• NRDA Caillou Lake Headland (TE-0100): 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.

• Franklin Floodgate Sinkable Barge and Pump Station – Phase 2 (TV-0052-2): This project will construct a levee, flood wall, sinkable barge structure, and pump station on Franklin Canal to prevent storm surge from inundating the town of Franklin.

Anticipated Projects

• Morgan City/St. Mary Flood Protection (TV-0055): This project will provide flood protection improvements by raising or improving over seven miles of the current levee system in the Morgan City area.

Projects anticipated to begin or continue construction in Fiscal Year 17 include:

• Rosethorne Tidal Protection (BA-0075-2)

• Cameron-Creole Watershed Grand Bayou Marsh Creation (CS-0054)

• Oyster Bayou Marsh Creation and Terracing (CS-0059)

• Rockefeller Refuge Gulf Shoreline Stabilization (ME-0018)

• South Grand Chenier Marsh Creation Project (ME-0020)

• Grand Lake Shoreline Protection (ME-0021)

• Central Wetlands – EBSTP to A2 (PO-0073-2)

• Bayou Bonfouca Marsh Creation (PO-0104)

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

• Violet Canal North Levee Alignment (PO-0170)

• Falgout Canal Freshwater Enhancement (TE-0063)

• Lost Lake Marsh Creation and Hydrologic Restoration (TE-0072)

• Cut-Off/Point Aux Chene Levee (TE-0078)

• Front Ridge Chenier Terracing/Protection (TV-0060)

• Cole's Bayou Marsh Restoration (TV-0063)

• Bayou Tigre Flood Control Project (TV-0067)

• Bayou Tigre Flood Control Complex (TV-0075)

The FY 2017 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 2017 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 2017 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 2017 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 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.

Stay Informed

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 for updates and public discussion of our current work. In addition, many new tools are being developed to allow greater visibility of our progress and to provide increased access to information. These resources and information about upcoming meetings can be found online at www.coastal.la.gov.

Table ES-1: Projected Three-Year Revenues (FY 2017 - FY 2019)

Revenue Sources	FY 2017	FY 2018	FY 2019	Program Total (FY 2017 - FY 2019)
CPR Trust Fund Annual Revenue[1,2]	$14,498,219	$15,400,000	$15,900,000	$45,798,219
CPR Trust Fund Carried Forward	$17,503,196	$4,488,384	$0	$21,991,580
GOMESA[1]	$80,775	$140,000,000	$140,000,000	$280,080,775
DOTD Interagency Transfer[1]	$4,000,000	$4,000,000	$4,000,000	$12,000,000
DOTD Interagency Transfer- Projects	$346,309	$31,310	$0	$377,619
CWPPRA Federal Funds[3]	$96,923,059	$78,008,368	$76,377,059	$251,308,486
CIAP	$36,044,614	$0	$0	$36,044,614
Surplus '07, '08, '09	$186,504,205	$32,155,061	$10,225,045	$228,884,311
Community Development Block Grants	$11,475,039	$2,916,435	$0	$14,391,474
Capital Outlay Funds	$5,250,000	$0	$0	$5,250,000
Deepwater Horizon NRDA	$148,561,937	$88,557,743	$50,000,000	$287,119,680
NFWF	$80,556,751	$15,808,676	$15,308,676	$111,674,103
Proposed RESTORE Revenues	$36,068,695	$27,299,754	$74,667,260	$138,035,709
LDNR Mitigation Funds[4]	$500,000	$0	$0	$500,000
LDNR Beneficial Use Funds[4]	$500,000	$0	$0	$500,000
Iberia Parish IGA[5]	$380,000	$0	$0	$380,000
MOEX Settlement[6]	$3,101,619	$76,164	$1,595,736	$4,773,519
OCD-DRU Grant[7]	$112,000	$0	$0	$112,000
Berm to Barrier[8]	$87,528	$86,124	$8,760	$182,412
OM&M Federal Funds[9]	$22,600,457	$16,585,200	$14,508,408	$53,694,065
FEMA Reimbursement for OM&M[10,11]	$1,510,886	$0	$0	$1,510,886
FEMA Reimbursement for Isaac Beach and Dune Project Repair[12]	$34,562,851	$34,562,851	$0	$69,125,702
Additional Funding for Isaac Beach and Dune Project Repair	$11,390,037	$11,260,793	$0	$22,650,830
LOSCO Funding[13]	$55,480	$106,360	$106,360	$268,200
Project Billing	$23,000,000	$23,920,000	$24,876,800	$71,796,800
Capital Outlay Request Submitted for HSDRRS 30-Year Payback	$0	$0	$99,424,680	$99,424,680
Total Projected Revenue	**$735,613,656**	**$495,263,223**	**$526,998,784**	**$1,757,875,663**

Notes

1. Annually recurring revenue source to be spent in accordance with the Louisiana Constitution, specifically State Law Section 214.5.4(E) and the provisions within paragraph (3).
2. Estimate tied to mineral revenue.
3. 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. Supplemental funding to augment construction of eligible projects (specific projects to be determined at a later date).
5. Used to partially fund TV-0057.
6. Represents anticipated balance as of FY 2017 of an initial deposit of $6.75 million of funds from the MOEX settlement.
7. Grant for development of Flood Risk and Resilience Program.
8. Used to fund monitoring of constructed Berm to Barrier projects.
9. Represents anticipated Federal reimbursement for CWPPRA and WRDA OM&M activities led by CPRA in which the State is initially incurring more than its cost share during project implementation.
10. Represents anticipated reimbursement associated with recovery from past distasters which has been obligated by FEMA.
11. 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) untis 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.
12. Represents anticipated reimbursement of FEMA recovery funds through the FEMA appeals process to restore various beach and dune restoration projects damaged by Hurricane Isaac.
13. Represents reimbursement of expenditures for CPRA oil spill response activities.

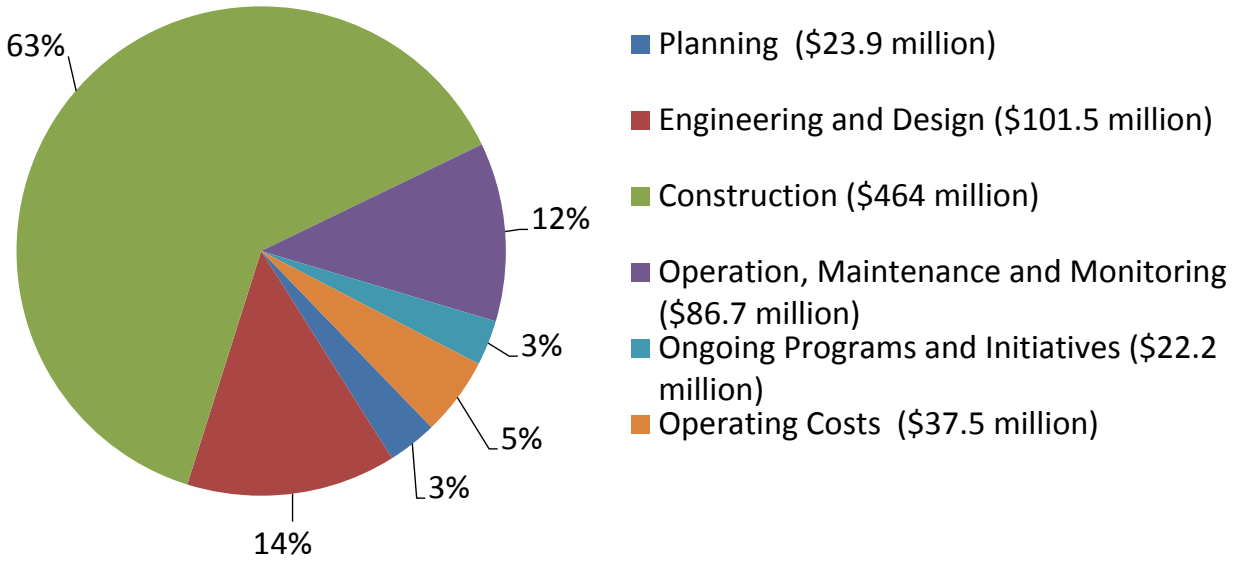
Table ES-2: Projected Three-Year Expenditures[1] (FY 2017 - FY 2019)

Program / Funding Source	FY 2017	FY 2018	FY 2019	Program Total (FY 2017 - FY 2019)
CWPPRA State Expenditures (not including Surplus expenditures)[2]	$13,363,600	$11,991,632	$13,622,941	$38,978,173
CWPPRA Federal Expenditures[3]	$96,923,059	$78,008,368	$76,377,059	$251,308,486
WRDA Project Expenditures (not including Surplus or CIAP expenditures)	$0	$0	$0	$0
CIAP Projects and Program Expenditures (not including Surplus Expenditures)	$36,044,614	$0	$0	$36,044,614
Surplus Projects and Program Expenditures	$186,504,205	$32,155,061	$10,225,045	$228,884,311
Community Development Block Grants	$11,475,039	$2,916,435	$0	$14,391,474
HSDRRS 30-Year Payback[4]	$0	$0	$99,424,680	$99,424,680
MOEX Project Expenditures	$3,101,619	$76,164	$1,595,736	$4,773,519
DOTD Interagency Transfer- HNC Deepening Expenditures	$346,309	$31,310	$0	$377,619
Capital Outlay Project Expenditures	$5,250,000	$0	$0	$5,250,000
State-Only Project Expenditures (Non-Surplus)	$89,500	$172,500	$62,500	$324,500
Deepwater Horizon NRDA Expenditures	$148,561,937	$88,557,743	$50,000,000	$287,119,680
NFWF Expenditures (not including Surplus Expenditures)	$80,556,751	$15,808,676	$15,308,676	$111,674,103
Proposed RESTORE Expenditures (not including Surplus Expenditures)	$36,068,695	$27,299,754	$74,667,260	$138,035,709
LDNR Mitigation Expenditures[5]	$500,000	$0	$0	$500,000
LDNR Beneficial Use Expenditures[5]	$500,000	$0	$0	$500,000
Iberia Parish IGA Expenditures[6]	$380,000	$0	$0	$380,000
OM&M- State Expenditures (not including Surplus or CIAP expenditures)	$8,333,581	$9,354,267	$6,257,311	$23,945,159
OM&M- Federal Expenditures[7]	$22,600,457	$16,585,200	$14,508,408	$53,694,065
OM&M- Marine Debris Removal (Partially Reimbused by FEMA)[8]	$1,640,130	$0	$0	$1,640,130
OM&M- Isaac Beach and Dune Recovery (Partially Reimbursed by FEMA)[9]	$45,823,644	$45,823,644	$0	$91,647,288
Operating Costs (see Tables 4-3 and 4-4)	$37,550,517	$60,225,519	$62,743,664	$160,519,700
Total Projected Expenditures	**$735,613,656**	**$389,006,273**	**$424,793,280**	**$1,549,413,209**

Notes

1. Represents proposed expenditures provided that commensurate level of funding is received.
2. Because CWPPRA projects compete for funding annually, CWPPRA expenditures as presented in Appendix B (which include projected expenditures for approved projects only) do not adequately capture likely CWPPRA expenditures in outlying years. The State's estimated CWPPRA expenditures for FY 20178- FY 2019 are therefore based on prior years' expenditures.
3. Represents anticipated Federal reimbursement for CWPPRA projects led by CPRA in which the State is initially incurring more than its 15% cost share during project implementation.
4. Payback is based on current HSDRRS construction schedule; payback will not commence until completion of HSDRRS construction activities. According to current estimates, payback will commence in September 2019 with an estimated annual payment of $99.4 million.
5. Supplemental funding to augment construction of eligible projects (specific projects to be determined at a later date).
6. Used to partially fund TV-0057.
7. Represents anticipated Federal reimbursement for CWPPRA and WRDA OM&M activities led by CPRA in which the State is initially incurring more than its cost share during project implementation.
8. Represents anticipated reimbursement associated with recovery from past distasters which has been obligated by FEMA.
9. Represents anticipated reimbursement of FEMA recovery funds through the FEMA appeals process to restore various beach and dune restoration projects damaged by Hurricane Isaac.

Figure ES-1: Projected FY 2017 Expenditures by Project Phase



Notes

- Construction includes Beneficial Use ($4 million)
- OM&M includes BIMP ($3.0 million), Repair/Rehabilitation of Projects ($774,523), Marine Debris Removal ($1.6 million), and Isaac Beach and Dune Recovery ($45.8 million)

TOTAL Expenditures
$736 million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Section 2

Progress to Date: Results on All Fronts

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Section 2

Progress to Date: Results on All Fronts

Project Highlights

Since the inception of the CPRA, the coastal program has reached significant milestones and continues to build momentum. This year has certainly been no exception. From constructing larger individual projects and overseeing a larger volume of protection and restoration work to making significant strides in resolving one of the biggest environmental disasters in our nation's history to moving project concepts that have been discussed for years towards implementation to continuing to refine and establish the Coastal Master Plan that guides our work, our progress toward achieving a sustainable coastal Louisiana has never been more evident.

Some of these most notable accomplishments include:

Caminada Headland Beach and Dune Restoration – Increment II

This $147 million project represents both the largest construction contract awarded and the largest restoration project undertaken in the history of the coastal program. This portion of the Caminada Headland project complements a previous increment completed in 2014. The second increment will create approximately 489 acres of beach and dune habitat and restore approximately seven additional miles of beach. In total, the first and second increments will restore a combined 13 miles of beach and 792 acres of beach and dune habitat.

Caminada Headland Beach and Dune Restoration

Shell Island West NRDA Restoration Project

The Shell Island West project includes the construction of two lobes, referred to as the eastern lobe and western lobe. Construction of the eastern lobe will begin where the Shell Island East project ended, extending westward 1.6 miles and creating an additional 325 acres of beach and dune habitat. Restoration of the western lobe includes the creation of 1.2 miles of beach and dune habitat and 281 acres of marsh. The project is anticipated to require 4.9 million cubic yards of sand borrowed from the Mississippi River and 1.7 million cubic yards of marsh material borrowed from an offshore source. The total estimated project cost is $101 million.

NRDA Caillou Lake Headlands Restoration Project (Whiskey Island)

This project includes restoring the barrier shoreline along the entire length of Whiskey Island through beach and dune fill placement, utilizing an offshore sand source in Ship Shoal. It also entails restoring the marsh platform along the western half of the island. The total estimated project cost is $110 million.

The project is nearly five miles in length and will create approximately 900 acres of barrier island and marsh habitat. This will be accomplished by hydraulically dredging an estimated 10.4 million cubic yards of barrier island fill material. Restoration of the island will provide a buffer to help reduce the full force and effects of wave action, saltwater intrusion, storm surge and tidal currents on associated estuaries and wetlands. It will also provide wetland habitat for a diverse number of plant and animal species.

Mississippi River Long Distance Sediment Pipeline

This is the most recent in a suite of projects building land south of Lafitte. At an estimated cost of $66 million, the project dredges sediment from the Mississippi River and pipes it more than 10 miles to fill in 415 acres of open water and deteriorating marsh. The pipeline corridor was also used for the adjacent Bayou Dupont Marsh and Ridge Creation Project, benefiting 390 acres ($38.3 million) and the original 577-acre Bayou Dupont project ($26.8 million). In 2016 another project, Bayou Dupont Sediment Delivery – Marsh Creation and Terracing ($18.7 million), will benefit an additional 135 acres along the pipeline corridor.

Mississippi River Long Distance Sediment Pipeline.

Franklin Floodgate Sinkable Barge and Pump Station (Phase 2)

This $2.5 million project, located in St. Mary Parish, includes the construction of the Franklin Canal Pump Station. The second phase was completed in October of this year. The first phase, completed in 2013, consisted of the construction of a levee and a barge swing gate that provide storm surge protection to the Parish.

The pump station will help to mitigate the rise in water level associated with rainfall runoff and drainage flow within the protected area of the levee that is conveyed to the project location via the Franklin Canal.

Morganza to the Gulf

The Morganza to the Gulf project provides protection to Terrebonne and portions of Lafourch Parish. The local citizens have taxed themselves and partnered with the CPRA to begin construction of levees, T-walls, navigation structures, water control structures and floodgates. In 2015 substantial progress was made through the construction of three levee reaches to their design elevation of 10 feet, totaling approximately 5.4 miles. Additionally, construction was completed on the Bayou Petite Caillou Floodgate and the Highway 65 roller gate. Both of these structures were fully funded by Terrebonne Levee and Conservation District (TLCD) bonded sales tax. Construction is also continuing on two additional levee reaches, totaling 2.7 miles. Finally, a contract was recently awarded for two segments of an additional reach, totaling 3.8 miles. Construction of these two segments is being funded with parish CDBG funds and TLCD sales tax.

In October, the United States and the five Gulf states announced a settlement to resolve civil claims against BP arising from the 2010 *Deepwater Horizon* disaster. The global settlement is worth more than $20 billion. Louisiana is anticipated to receive a minimum of $6.8 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.

Concurrent with the announcement, the *Deepwater Horizo*n Natural Resource Damage Assessment Trustees also released a Draft Programmatic Damage Assessment and Restoration Plan and Draft Programmatic Environmental Impact Statement (PDARP/PEIS). The document was finalized in February and establishes a framework for utilizing up to $8.8 billion associated with natural resource damages, including a minimum of $5 billion specifically for Louisiana.

A consent decree outlining the details of the proposed settlement and the Trustees draft plan were made available for public review and comment with the formal comment period on both documents concluding on December 4.

Details of the Consent Decree

Under the terms of a 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 has 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 the Louisiana 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 document 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:

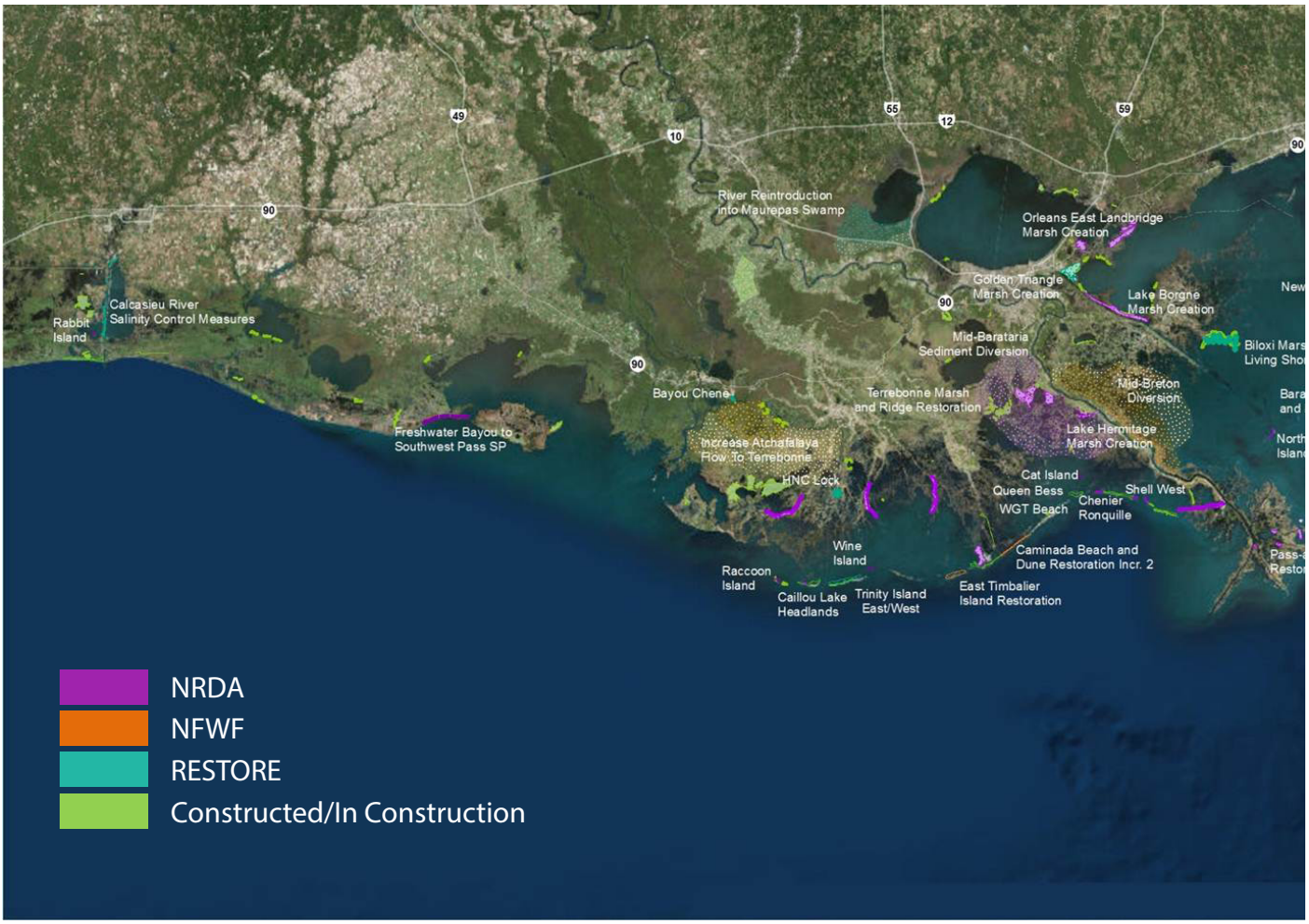
MAJOR RESTORATION CATEGORIES	AMOUNT ALLOCATED TO LA
1. Restore & Conserve Habitat	
Wetlands, Coastal, & Nearshore	$4,009,062,700
Habitat Projects – Federally Managed Lands	$50,000,000
Early Restoration	$259,625,700
2. Restore Water Quality	
Nutrient Reduction (Nonpoint Source)	$20,000,000
3. Replenish & Protect Living Coastal & Marine Resources	
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	
Provide & Enhance Recreational Opportunities	$38,000,000
Early Restoration – Recreational Opportunities	$22,000,000
5. Monitoring, Adaptive Management, Administrative Oversight	
Monitoring & Adaptive Management	$225,000,000
Administration Oversight & Comp. Planning	$33,000,000
MINIMUM NRD FUNDING ALLOCATED TO LA	**$5,000,000,000**

Upon finalization of the draft PDARP/PEIS and Court approval of the consent decree, project-specific restoration plans will be developed for public review and comment.

Combined Settlements

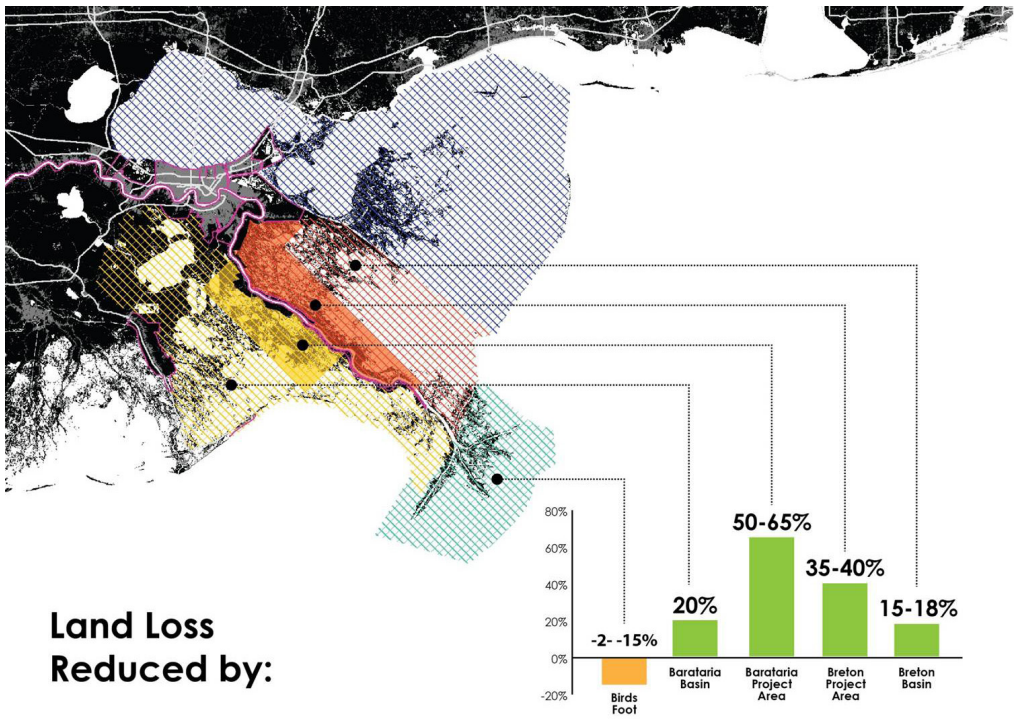
This settlement, combined with prior *Deepwater Horizon*-related settlements, translates into approximately $8.7 billion for Louisiana coastal restoration. Approval of the consent decree and finalization of the PDARP/PEIS will allow the state to move forward with identifying and implementing critical restoration and protection projects, providing approximately $580 million annually for the coastal program.

In anticipation of receiving oil spill dollars, the CPRA began public discussions related to comprehensive oil spill restoration planning in 2013. Planning efforts and discussions continue to be refined as additional information becomes available. 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.



Sediment Diversions

The CPRA made a recommendation to advance both the Mid Barataria (75,000 cfs) and Mid Breton (35,000 cfs) sediment diversions to engineering and design. This recommendation is based, in part, on recent results of a suite of diversion studies initiated in late 2013, in response to concerns raised by various stakeholder groups.



In 2013 the CPRA Board approved the use of approximately $13 million to advance a suite of studies related to the lower Mississippi River sediment diversions proposed in the 2012 Coastal Master Plan. The goal of those studies was twofold: to address concerns raised by various stakeholders and to allow the CPRA to better understand benefits and limitations of the proposed projects. The funds utilized to conduct the studies were 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.

The studies utilized some of the most advanced modeling tools available, such as Delft 3-D, CASM and EwE to predict changes that could potentially occur as a result of implementing sediment diversions. A complementary effort using outputs from these models is underway to investigate and understand potential socioeconomic impacts. In evaluating the modeling results, the CPRA is considering a number of factors including the projects' abilities to build or maintain land, effects on the river, changes in water levels, changes to salinity, habitat diversity and quality, abundance and distribution of fisheries and economic trends. In addition to analyzing modeling results, the CPRA is also considering project costs, funding availability and continued feedback from stakeholders.

The formal request for the additional funds needed for engineering and design is included inside this year's Annual Plan. Engineering and design work is anticipated to take several years. During that time we will further refine our analysis, develop an operational regime and continue to engage the public as we progress through the design and permitting process.

2017 Coastal Master Plan Update

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 the 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, allowing 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 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.

The 2012 Coastal Master Plan made a tremendous leap forward in developing the computer models and analytic tools that enabled us to better understand our changing landscape and to evaluate protection and restoration projects in a systems context. As a result, for the first time, the state made detailed recommendations for specific projects and programs that have the best chance of reducing communities' flood risk and sustaining our coast. The 2012 Coastal Master Plan also recommended a new, more holistic flood risk reduction strategy.

As the 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 so we can focus our resources wisely. Five key priorities for the 2017 Coastal Master Plan will be emphasizing communities, focusing on flood risk and resilience, incorporating new project ideas and information, improving the models based on the best available science, and expanding partnerships and collaboration.

Emphasizing Communities

Coastal restoration and protection goals ultimately intend to support the people who live and work in coastal Louisiana, and the 2017 Coastal Master Plan will place a greater focus on these communities.

The 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's 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 – will be quantified and included in our analysis and decision making process.

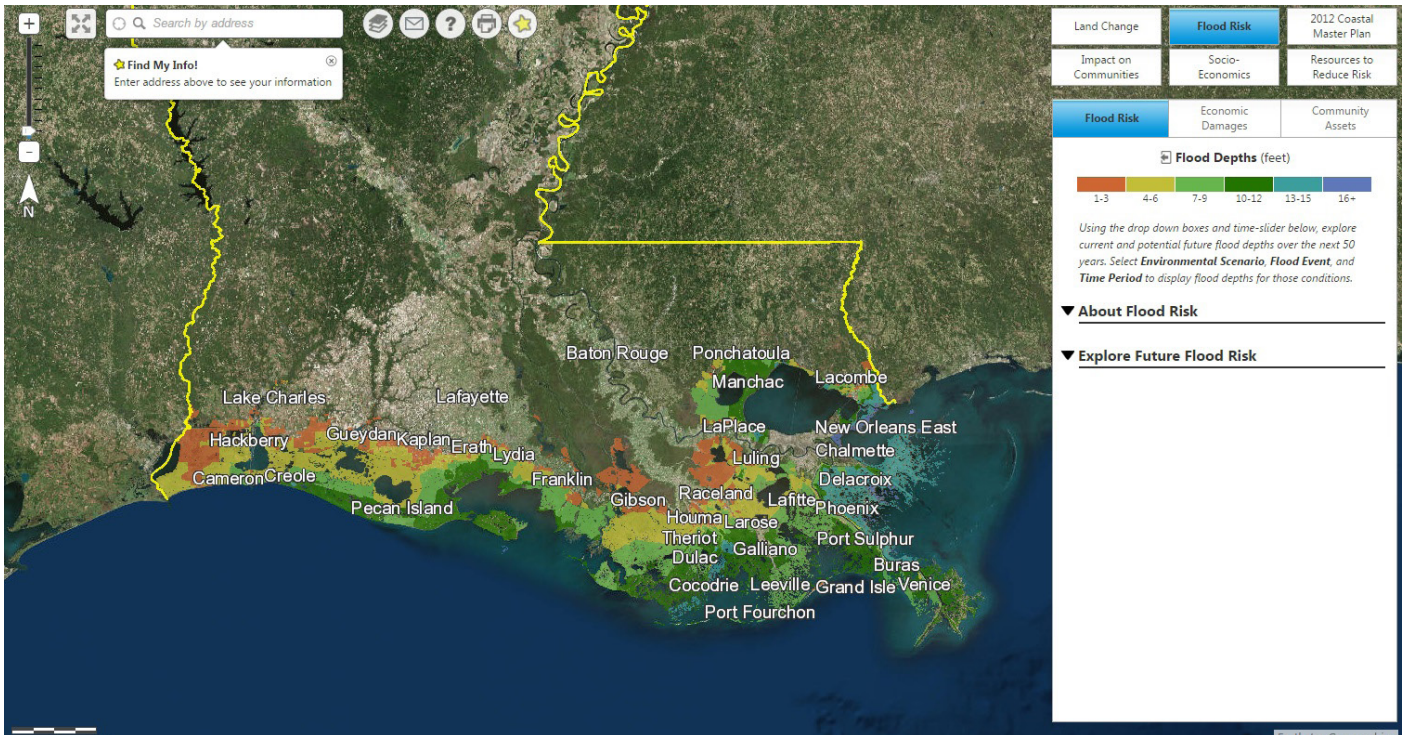
Focusing on Flood Risk Reduction and Resilience

We need to use all of the tools available to reduce communities' flood risk and, as such, we are exploring different types of nonstructural measures and refining policies to help communities become more resilient.

The 2017 Coastal Master Plan will present a more detailed path forward for nonstructural project recommendations, funding sources, implementation procedures, and policy recommendations. In addition, the CPRA has also expanded outreach through the creation of a new, interactive web-based viewer launched in March 2015 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 safer.

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.



The viewer uses data that was produced for the 2012 Coastal Master Plan and shows land loss and flood risk across the coast for the current day as well as 50 years into the future. Also displayed are the 2012 Coastal Master Plan protection and restoration projects that provide land building and risk reduction benefits across the coast. As new information and data become available for the 2017 Coastal Master Plan, the viewer will be updated accordingly.

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, the CPRA established the New Project Development Program. The program provided opportunities 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 shifts in the coastal landscape, or confront future uncertainty challenges.

Over the course of two solicitation periods totaling 140 days, the CPRA accepted proposals for new projects to be considered in the 2017 Coastal Master Plan. New projects could be proposed by any source, including academia, parishes, elected officials, agencies, NGOs, landowners, business/industry, and the general public. 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 have been 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 modeling process provides a deeper understanding of our coastal environment today, as well as the changes that are expected over the next 50 years. The CPRA, The Water Institute of the Gulf, and a team of over 50 additional experts developed a Model Improvement Plan to guide refinements and advancement to the models that would be used for the 2017 Coastal Master Plan.

Changes from the 2012 Coastal Master Plan models can be characterized into three broad categories: development of new process-based algorithms (e.g., sediment distribution), integration of landscape and ecosystem model codes into a single common framework (e.g., the Integrated Compartment Model), and increased resolution of model grids (e.g., eco-hydrology and risk assessment). In addition, a number of the habitat suitability indices used in 2012 were revised and others were developed for use in the 2017 modeling effort and new information regarding future sea level rise, subsidence, and other environmental factors have been incorporated into the analysis.

In an effort to make the modeling process as transparent and accessible to the public as possible, the CPRA has begun the process of posting technical modeling

reports in draft form to its website. This resource provides the full list of technical reports documenting the models used to evaluate projects and alternatives for the 2017 Coastal Master Plan.

Available reports are linked for download and updated on an ongoing basis as they are refined, with links to the remaining reports added as the technical work is completed. Once finalized, these reports will become an appendix to the 2017 Coastal Master Plan.

Additionally, the CPRA has posted other resources online related to its technical modeling efforts, such as webinar recordings and PowerPoint slides detailing the suite of modeling tools that have been developed to support the 2017 Coastal Master Plan. As more materials become available, they will continue to be posted online in order to help educate those who would like to learn more about the Coastal Master Plan effort.

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 will continue for the 2017 Coastal Master Plan.

These partnerships include a coastal stakeholder advisory group - the Framework Development Team - as well as focus groups that represent our communities, landowners, recreational interests, and commercial activities (fisheries, navigation, and energy and industry).

Throughout the year, 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.

The CPRA is also coordinating more closely with key groups such as floodplain managers, hazard mitigation specialists, other state agencies, and NGOs. Furthermore, the CPRA has continued reaching 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.

Timeline

Once the draft plan is published, formal public meetings will take place in February 2017, followed by a formal public comment period ending in March 2017.

In addition to these meetings, the CPRA will also host regional community meetings during 2016 in which public input will be encouraged and captured.

Learn More and Get Involved

Want to learn more about the 2017 Coastal Master Plan? The CPRA team is prepared to present at your next community meeting and answer any questions that individuals in your area might have about the 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/a-common-vision/2017-master-plan-update/.

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Table 2-1: Projects Scheduled to be in Construction in FY 2016

Project ID	Project Name	Construction Start Date[1]	Construction Finish Date	State Construction Budget
CWPPRA Phase II Projects				
BA-0027-C	Barataria Basin Landbridge Shoreline Protection, Phase 3-CU7 & 8	21-Jan-15	30-Dec-16	$ 3,765,298
BA-0048	Bayou Dupont Marsh and Ridge Creation Project	11-Jun-13	31-Aug-16	$ 5,343,343
BA-0068	Grand Liard Marsh and Ridge Restoration	12-Apr-13	5-Oct-15	$ 5,742,508
BA-0164	Bayou Dupont Sediment Delivery - Marsh Creation #3 and Terracing	15-Apr-16	18-Jul-16	$ 2,110,135
BS-0016	South Lake Lery Shoreline and Marsh Restoration	05-Sep-13	3-Jan-17	$ 4,470,149
CS-0054	Cameron-Creole Watershed Grand Bayou Marsh Creation	31-Mar-16	18-Sep-17	$ 3,154,323
CS-0059	Oyster Bayou Marsh Creation and Terracing	05-Apr-16	4-Dec-17	$ 2,713,913
ME-0020	South Grand Chenier Marsh Creation Project	17-Mar-16	25-May-17	$ 3,039,739
ME-0021	Grand Lake Shoreline Protection- Tebo Point	11-Apr-16	6-Feb-17	$ 936,305
PO-0104	Bayou Bonfouca Marsh Creation	15-Mar-16	10-Feb-17	$ 3,818,511
TE-0072	Lost Lake Marsh Creation and Hydrologic Restoration	29-Mar-16	24-Aug-17	$ 4,845,977
CWPPRA Demonstration Projects				
LA-0016	Non-rock Alternatives to Shoreline Protection Demonstration	16-Aug-13	2-Feb-16	$ 839,846
CIAP Projects				
BA-0043-EB	Mississippi River Long Distance Sediment Pipeline[2]	17-Sep-13	1-Aug-16	$ 56,753,287
BA-0161	Mississippi River Water Reintroduction into Bayou Lafourche - BLFWD	16-Feb-15	27-Dec-16	$ 18,350,000
MR-0016-SSPM	Mississippi River Delta Strategic Planning- SSPM Expansion	15-Oct-14	30-Nov-16	$ 8,701,642
PO-0043	East LaBranche Shoreline Protection	15-Dec-14	18-Sep-15	$ 2,000,000
PO-0073	Central Wetlands Demonstration	22-Aug-11	16-Nov-15	$ 2,811,832
PO-0073-2	Central Wetlands - EBSTP to A2	25-Feb-16	17-Dec-16	$ 4,218,168
PO-0073-3	Central Wetlands Demonstration Expansion	17-Sep-14	28-Jan-16	$ 4,450,000
PO-0148	Living Shoreline	02-Oct-15	3-Dec-16	$ 23,650,000
TE-0063	Falgout Canal Freshwater Enhancement	05-Feb-16	5-Dec-16	$ 3,300,000
TV-0031	Acadiana Regional Airport Street Improvements - Admiral Doyle Drive	11-Jul-14	1-Apr-16	$ 602,500
State-Only Projects				
BA-0075-1	Jean Lafitte Tidal Protection	19-Feb-14	28-Nov-17	$ 15,174,000
BA-0085	St. Charles West Bank Hurricane Protection Levee	04-Dec-13	2-Oct-17	$ 8,000,000
BA-0168	Grand Isle Fifi Island Breakwater	09-Mar-15	25-Aug-15	$ 5,356,453
PO-0142	Hydrologic Restoration of the Amite Diversion Canal	16-Mar-16	7-Sep-16	$ 2,542,100
PO-0170	Violet Canal North Levee Alignment	15-Jun-16	14-Jun-17	$ 1,154,000
TE-0064	Morganza to the Gulf	30-Nov-05	29-Aug-18	$ 121,556,411
TE-0065-SP	Larose to Golden Meadow - Larose Sheetpile	26-Jan-15	15-Aug-16	$ 8,000,000
TV-0055	Morgan City/St. Mary Flood Protection	30-Jun-16	6-Sep-17	$ 3,370,000
TV-0076	Surplus Freshwater Bayou Bank Stabilization	24-Nov-15	8-Apr-16	$ 1,300,000

Table 2-1: Projects Scheduled to be in Construction in FY 2016

Project ID	Project Name	Construction Start Date[1]	Construction Finish Date	State Construction Budget
CDBG Projects				
TE-0078	Cut-Off/Pointe Aux Chene Levee	14-Jun-16	16-Oct-17	$ 7,095,000
TV-0052-2	Franklin Floodgate Sinkable Barge and Pump Station[2]	14-Feb-14	29-Oct-15	$ 2,481,000
TV-0060	Front Ridge Chenier Terracing/Protection	08-Apr-16	27-Apr-17	$ 1,421,572
TV-0067	Bayou Tigre Flood Control Project	31-May-16	22-Sep-17	$ 5,308,244
HSDRRS Projects[3,4]				
BA-0066	West Bank and Vicinity	27-Mar-07	31-Aug-17	$ 4,304,525,784
BA-0067	New Orleans to Venice	29-Oct-11	13-Sep-22	$ 1,523,760
BA-0109	HSDRRS Mitigation- WBV	27-Feb-15	14-Jun-19	$ 126,000,000
BA-0154	Previously Authorized Mitigation WBV[5]	04-Aug-14	31-Oct-18	$ 11,000,000
PO-0057	SELA- Overall	18-Feb-09	12-Oct-20	$ 1,170,974,586
PO-0060	Permanent Canal Closures and Pump Stations[6]	01-Jan-13	7-Feb-19	$ 614,800,000
PO-0063	Lake Pontchartrain and Vicinity	31-Oct-07	15-Jun-16	$ 3,852,000,000
PO-0121	HSDRRS Mitigation- LPV[6]	23-Jul-15	29-Dec-17	$ 29,750,000
PO-0146	Previously Authorized Mitigation LPV- Manchac[6]	27-May-11	14-Jul-16	$ 21,000,000
NRDA Early Restoration Projects				
BA-0111	Shell Island West- NRDA	31-Mar-15	1-May-17	$ 100,307,860
TE-0100	NRDA Caillou Lake Headlands	22-Jul-15	5-Jul-18	$ 107,106,000
NFWF Projects				
BA-0143	Caminada Headland Beach and Dune Restoration Increment 2	28-May-14	23-Nov-16	$ 144,551,441

Notes:

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

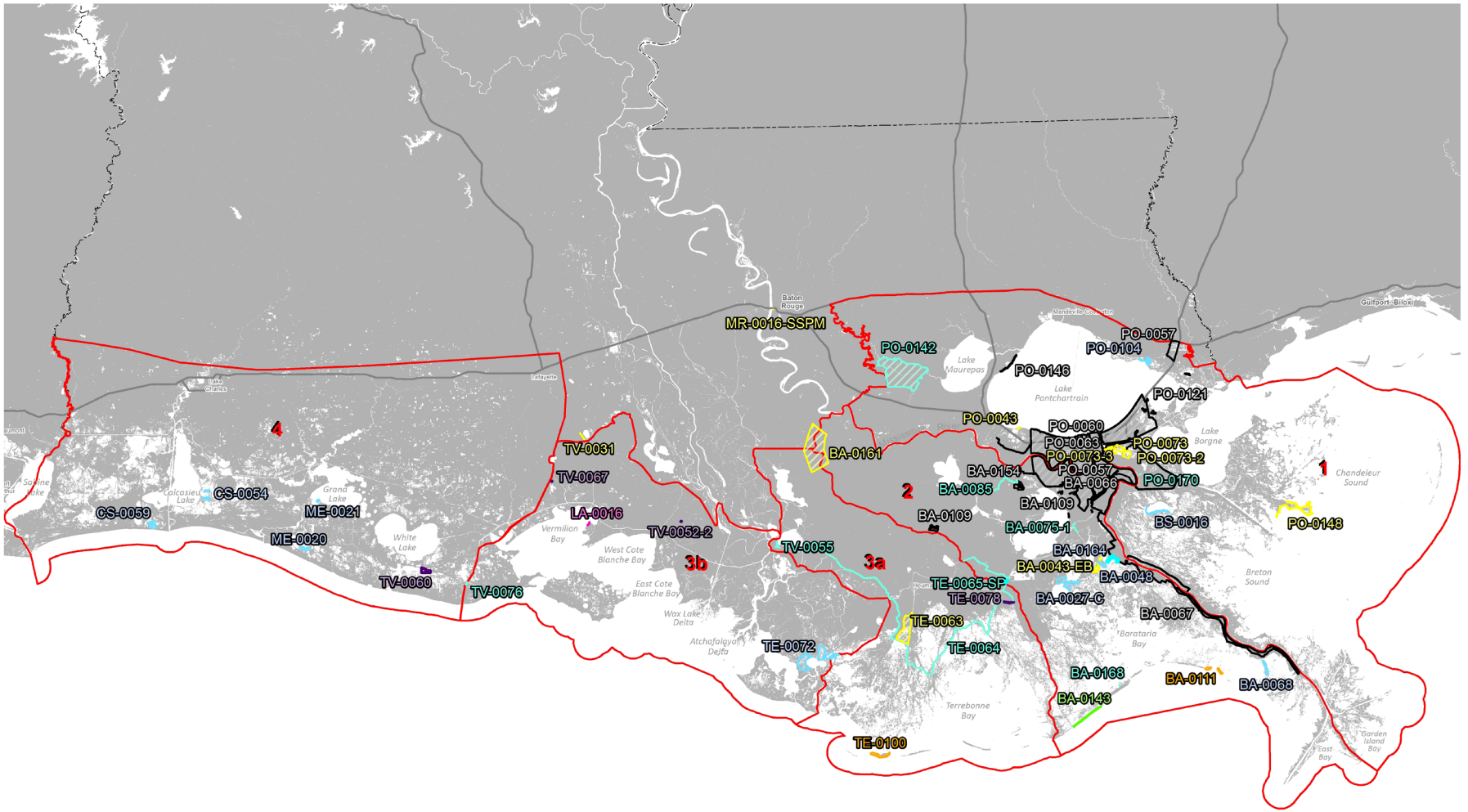
2- Project partially funded with Surplus funds.

3- Full construction budget is presented.

4- Pending completion of approval process.

5- Project cost included in total cost for BA-0066.

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



Map 2-1: Projects Scheduled to be in Construction in FY 2016

Planning Units

CDBG	CWPPRA DEMO	HSDRRS	NRDA
CIAP	CWPPRA PHASE II	NFWF	STATE ONLY

1:1,895,000

0 12.5 25 50 75 Kilometers

0 12.5 25 50 75 Miles

Table 2-2: Projects Scheduled to Complete Construction in FY 2016

Project ID	Project Name	Construction Start Date[1]	Construction Finish Date	State Construction Budget
CWPPRA Phase II Projects				
BA-0068	Grand Liard Marsh and Ridge Restoration	12-Apr-13	5-Oct-15	$ 5,742,508
CWPPRA Demonstration Projects				
LA-0016	Non-rock Alternatives to Shoreline Protection Demonstration	16-Aug-13	2-Feb-16	$ 839,846
CIAP Projects				
PO-0043	East LaBranche Shoreline Protection	15-Dec-14	18-Sep-15	$ 2,000,000
PO-0073	Central Wetlands Demonstration	22-Aug-11	16-Nov-15	$ 2,811,832
PO-0073-3	Central Wetlands Demonstration Expansion	17-Sep-14	28-Jan-16	$ 4,450,000
TV-0031	Acadiana Regional Airport Street Improvements - Admiral Doyle Drive	11-Jul-14	1-Apr-16	$ 602,500
State-Only Projects				
BA-0168	Grand Isle Fifi Island Breakwater	09-Mar-15	25-Aug-15	$ 5,356,453
TV-0076	Surplus Freshwater Bayou Bank Stabilization	24-Nov-15	8-Apr-16	$ 1,300,000
CDBG Projects				
TV-0052-2	Franklin Floodgate Sinkable Barge and Pump Station[2]	14-Feb-14	29-Oct-15	$ 2,481,000
HSDRRS Projects[3,4]				
PO-0063	Lake Pontchartrain and Vicinity	31-Oct-07	15-Jun-16	$ 3,852,000,000

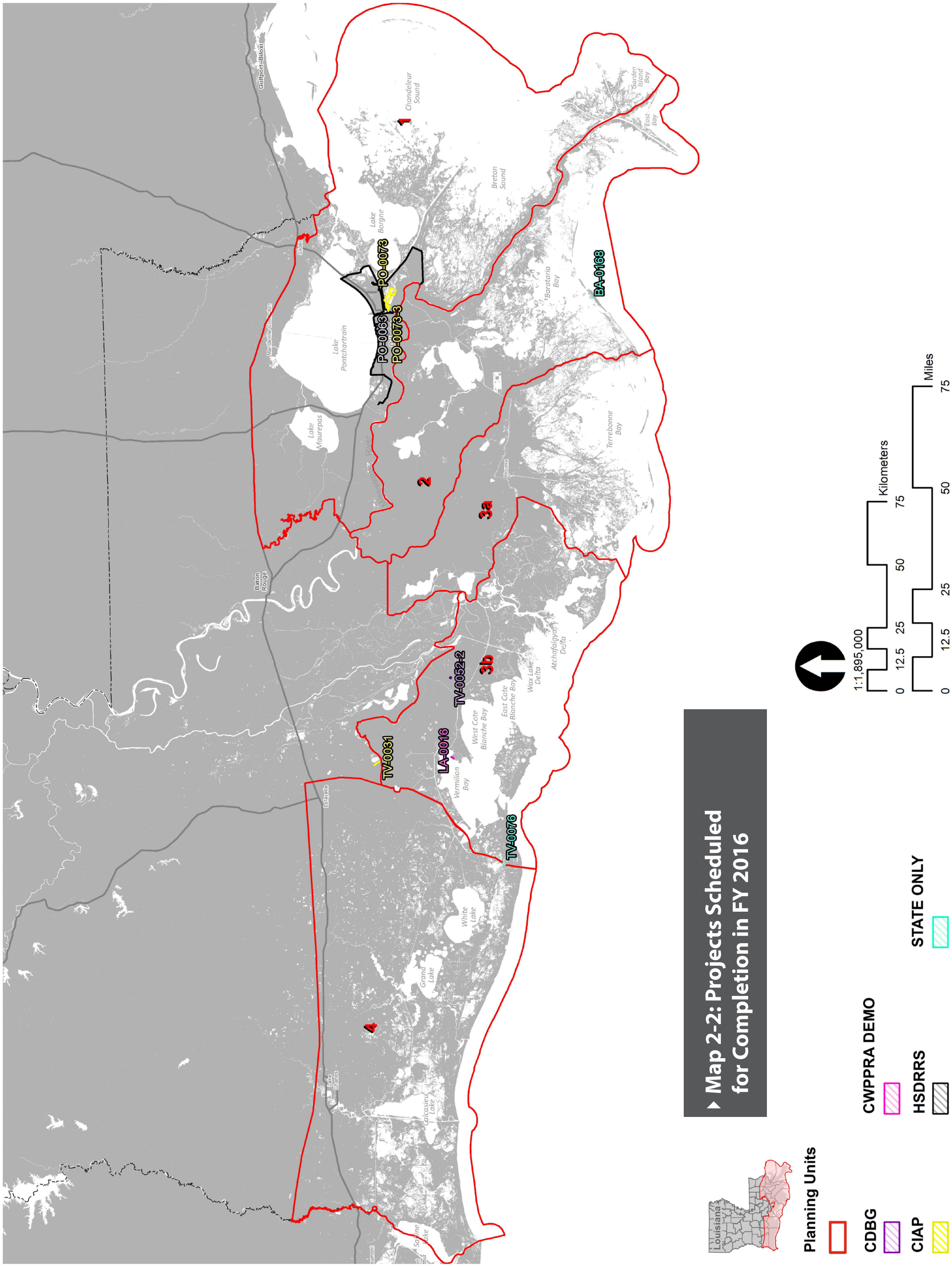
Notes:

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- Full construction budget is presented.

4- Pending completion of approval process.


Gulfport-Biloxi
Chandeleur Sound
1
Garden Island Bay
East Bay
Breton Sound
Lake Borgne
PO-0073
PO-0063
PO-0073-3
Lake Pontchartrain
Barataria Bay
BA-0168
Lake Maurepas
Terrebonne Bay
2
3a
Baton Rouge
Atchafalaya Delta
Wax Lake Delta
3b
TV-0052-2
East Cote Blanche Bay
West Cote Blanche Bay
LA-0016
TV-0031
Vermilion Bay
TV-0076
White Lake
Grand Lake
4
Calcasieu Lake
Sabine Lake
1:1,895,000
0 12.5 25 50 75
Kilometers
0 12.5 25 50 75
Miles
Louisiana
Planning Units
CDBG
CIAP
CWPPRA DEMO
HSDRRS
STATE ONLY

Map 2-2: Projects Scheduled for Completion in FY 2016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Section 3

FY 2017 Implementation Plan: More Projects, More Action, More Results

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Section 3

FY 2017 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 2017 (July 1, 2016, through June 30, 2017). 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 (OM&M). 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 2017 are presented in Figures 3-1 through 3-3.

Projects in Planning

There are 4 projects are in the planning phase in FY 2017, including two restoration projects, 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 $24 million in FY 2017, 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 33 projects in design for FY 2017, including two protection projects and 31 restoration projects. These projects represent a total state investment of $102 million in FY 2017. 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 46 projects that will begin or continue construction in FY 2017, including 17 protection projects, and 29 restoration projects. These projects represent a total state investment of $464 million in FY 2017, and 21 of these projects are projected to complete construction in FY 2017. Table 3-1 presents additional information about projects set for construction in FY 2017, 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 $87 million (including federal match dollars) in FY 2017 on operation, maintenance, and monitoring (OM&M). OM&M expenditures in FY 2017 will cover the operation and maintenance of 145 projects and monitoring of 111 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 2017 to engage in marine debris removal in offshore areas and will pursue $45.8 million in the repair of beach and dune projects that were damaged by Hurricane Isaac. 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 2017. 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 2016 are contained in Appendix D.

Ongoing Programs

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.

Adaptive Management

The Coastal Master Plan process recognizes the need to quickly implement large scale projects within an extremely dynamic environment. The CPRA will continue to build on the decades of research and analysis performed to date but must move forward to maximize riverine resources even though our science may be imperfect. 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.

Coastal Program Details

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. 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 in-depth 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 2017 on the implementation of 21 CWPPRA Phase 1 projects (design), 14 CWPPRA Phase 2 projects (design and construction) 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)
- Bayou Bonfouca Marsh Creation (PO-0104) (Phase 2)

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

Water Resources Development Act (WRDA)

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

The state currently intends to expend funds in FY 2017 on several WRDA authorizations, including:

- Mississippi River Hydrodynamic and Delta Management Study (MR-0016)
- 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.

Coastal Impact Assistance Program (CIAP)

CIAP was authorized in 2005 as part of the Federal Energy Policy Act to help six coastal states mitigate the onshore effects of Outer Continental Shelf (OCS) oil and gas development. CIAP will provide approximately $495.6 million to Louisiana from the federal administrator, the USFWS. The state will receive 65 percent of these funds with the remaining 35 percent being distributed to the 19 coastal parishes. To date, all $495.6 million of Louisiana's CIAP funds have been awarded for the implementation of 99 projects.

Authorized uses of CIAP funds include projects and activities to conserve, protect or restore coastal areas, including wetlands; mitigation of damage to fish, wildlife or natural resources; planning assistance and the administrative costs of CIAP compliance; implementation of a federally approved marine, coastal or comprehensive conservation management plan; and onshore infrastructure projects and public service needs. Up to 23 percent of those funds are being spent on CIAP planning assistance and compliance and for onshore infrastructure projects and public service needs to mitigate OCS impacts.

The current approved Louisiana CIAP Plan identifies a total of 99 State-only, State/Parish-shared, and Parish-only funded projects for which these funds were allocated.

The state will expend funds on the design and/or construction of seven CIAP restoration projects in FY 2017. CIAP funds will also continue to be used to fund the CFCI program and two Performance Evaluation studies of constructed CIAP projects.

Active CIAP projects include:

- Mississippi River Water Introduction into Bayou Lafourche (BA-0161)
- Living Shoreline Protection Demonstration Project (PO-0148)
- Falgout Canal Freshwater Enhancement (TE-0063)

Project schedules for CIAP projects are included in Table 3-4. Additional information about these projects is available on the state's coastal website. Project specific expenditures for CIAP projects are presented in Appendix B.

Projects within the approved CIAP plan are funded for implementation by approval of CIAP grant applications which were submitted to USFWS for approval and were required to be submitted separately for the design and construction phases of a project.

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., Mississippi River Long Distance Sediment Pipeline [BA-0043-EB], 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 2017 on 15 state-only projects, including 12 protection projects, one restoration project, one navigation project, and one integrated protection and restoration 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]);
- Coordination on federal protection projects;
- Feasibility studies for flood protection in areas not currently covered by the existing federal protection network (e.g., South Central Coastal Plan [TV-0054]); and
- 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 3-5. Project-specific expenditures for State-only projects are presented in Appendix B.

Of the 15 active State-only projects, 11 are funded for construction and will proceed to construction in accordance with their schedules as presented in Table 3-5. Two projects are funded for design and following completion of design will proceed to construction upon procurement of construction funds. The remaining projects are funded for feasibility only and would proceed to design upon receipt of further authorization through another coastal 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 3-6. 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 3-6. 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. In 2019, the non-federal sponsor is anticipated to begin its 30-year payback to the federal government for the non-federal sponsor's cost-share portion of construction costs (approximately 35 percent). Schedules for HSDRRS projects are included in Table 3-7. All but one of these projects are fully funded for construction and will proceed with construction according to the schedules provided in Table 3-7. 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 proposed settlement with BP mentioned in Section 2, combined with prior Deepwater Horizon-related settlements, translates into approximately $8.7 billion for Louisiana coastal restoration. 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 3-8. Project specific expenditures are presented in Appendix B.

Natural Resource Damage Assessment (NRDA) Restoration

The Natural Resources 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 the spill. Through that claim, the trustees will 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 providing compensation for the loss of those resources from the dates of injury through full 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 represents an initial step toward fulfilling BP's obligation as a responsible party to fund the 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.

To date, approximately $370 million in early restoration funds have been allocated for projects located in Louisiana.

These projects include:

- Lake Hermitage Marsh Creation – NRDA Early Restoration Project ($14.4 M
- Louisiana Oyster Cultch Project ($15.6 M)
- Louisiana Outer Coast Restoration ($318 M)
    - o Caillou Lake Headlands (Whiskey Island) ($110 M)
    - o Shell Island West ($101 M)
    - o Chenier Ronquille ($35 M)
    - o North Breton Island ($72 M)
- Louisiana Marine Fisheries Enhancement, Research and Science Center ($22 M)

Natural Resources Damages under the Oil Pollution Act

In February, the Deepwater Horizon Natural Resource Damage Assessment Trustees released the Final Programmatic Damage Assessment and Restoration Plan and Final Programmatic Environmental Impact Statement (PDARP/PEIS). The plan establishes a framework for utilizing up to $8.8 billion associated with natural resource damages, including a minimum of $5 billion specifically for Louisiana. The plan 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 spending for the various restoration types would be most appropriate. Public comment period on the draft plan concluded on December 4, 2015.

Following Court approval of the consent decree and finalization of 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 spill for public consideration. It is anticipated that project-specific plans will be periodically presented and discussed with the public over the 16-year payment period specified in the settlement.

In anticipation of funding, the CPRA has been publicly discussing potential projects that could be funded with oil spill restoration dollars since 2013. As more details related to funding have become available, the planning process continues to be refined. A presentation given to the CPRA Board in August 2015 included a list of projects anticipated to be proposed in future NRD restoration plans for public consideration. Several projects from that list (italicized below) are included in Table B-15 and will likely be proposed within the first project-specific NRD restoration plan presented to the public for restoration in Louisiana.

- Orleans East Land Bridge Marsh Creation
- *Lake Borgne Marsh Creation*
- Pass-A-Loutre Restoration
- *Barataria Basin Ridge and Marsh Creation*
- *Terrebonne Basin Ridge and Marsh Creation*
- Mid Barataria Sediment Diversion
- Freshwater Bayou Shoreline Protection
- Raccoon Island
- Wine Island
- New Harbor Island
- *Queen Bess Island*
- *Cat Island/Mangrove Island*
- Rabbit Island

BP and Transocean Criminal Settlements

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 the National Fish and Wildlife Foundation (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."

NFWF

To date, NFWF has awarded over $221 million from the Gulf Environmental Benefit Fund for projects in Louisiana. This includes funds awarded in April 2014 for the construction of the second increment of the Caminada Beach and Dune Restoration project and funds for adaptive management awarded in November 2014. The Louisiana Projects include:

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

The next NFWF grant application cycle begins in March 2016. It is anticipated that the CPRA will request funds for the following projects:

- Mid Barataria Sediment Diversion (Remaining Engineering and Design)
- Mid Breton Sediment Diversion (Engineering and Design)
- Increase Atchafalaya Flow to Terrebonne (Engineering and Design)
- Adaptive Management: Louisiana River Diversions and Barrier Islands (Continuation)

Clean Water Act Penalties

The Clean Water Act (CWA) establishes the basic structure for regulating discharges of pollutants into the waters of the United States and regulating water quality standards for surface waters. The CWA makes it unlawful to discharge any pollutant from a point source into navigable waters, unless a permit is obtained. Violations of the CWA can result in both civil and criminal prosecutions by the federal government. The U.S. Department of Justice (DOJ), on behalf of the Environmental Protection Agency (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 proactively passed 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 Trust Fund:

- 35 percent equally divided among the five 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 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) (Bucket 4); and
- 2.5 percent plus interest allocated to the States for Centers of Excellence Research grants, which will each focus on science, technology, and monitoring related to Gulf restoration.

In February 2013, Transocean agreed to pay $1 billion to resolve federal Clean Water Act (CWA) civil penalties. The proposed settlement with BP, announced in October, includes $5.5 billion for CWA civil penalties (subject to the RESTORE Act). Additionally, in December, a final judgement was issued against the Anadarko Petroleum Corporation for CWA penalties in the amount of $159.5 million. Combined, these settlements would direct a minimum of approximately $950 million to Louisiana.

Direct Component Projects

On February 11, 2015, the CPRA Board unanimously approved four projects and programs for State funding under the Direct Component of the RESTORE Act:

- Houma Navigation Canal Lock Complex ($16 M)
- Calcasieu River Salinity Control Measures ($16 M)
- Adaptive Management ($2.4 M)
- Local Matching Program (up to 10% of the total funds allocated to the State under the Direct Component) ($3.9 M)

Council-Selected Restoration Component Projects

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

The Coastal Master Plan projects receiving funding include:

- Golden Triangle Marsh Creation Project ($4.3M; 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, are complementary to and consistent with the master plan and will directly benefit coastal Louisiana.

Although the future funding available for Louisiana under this component is unknown, it is anticipated that the future FPL will include significantly larger projects and project lists that reflect the full amount available to be spent for restoration activities. The CPRA anticipates that future requests for FPL funding to include additional dollars for future phases of work associated with the Coastal Master Plan projects included in the Initial FPL. Additionally, the CPRA is also considering proposing the Main Trinity Island West and Main Trinity Island East projects consideration under this component.

Spill Impact Component

In addition to voting on the FPL in December, the Council voted to approve the Spill Impact Component Rule. The approval will direct nearly 35 percent of funding allocated to this component of the RESTORE Act from both the Transocean settlement ($244.8 million) and the Clean Water Act civil penalties outlined in the proposed consent decree with BP ($1.32 billion) to Louisiana, resulting in approximately $541 million for the coastal program. The rule will become effective once the consent decree is finalized. Upon finalization funds currently available from the Transocean settlement, amounting to almost $85 million will become accessible for projects included in the state's multiyear implementation plan.

Center of Excellence

In October, the U.S. Department of the Treasury notified the CPRA of plans to award a Center of Excellence research grant totaling approximately $4 million. The CPRA will provide these funds to the Water Institute of the Gulf, which has been selected as the state's RESTORE Act Center of Excellence, to oversee research efforts designed to advance the state's Coastal Master Plan in areas relating to coastal sustainability, ecosystem research, monitoring and economic growth.

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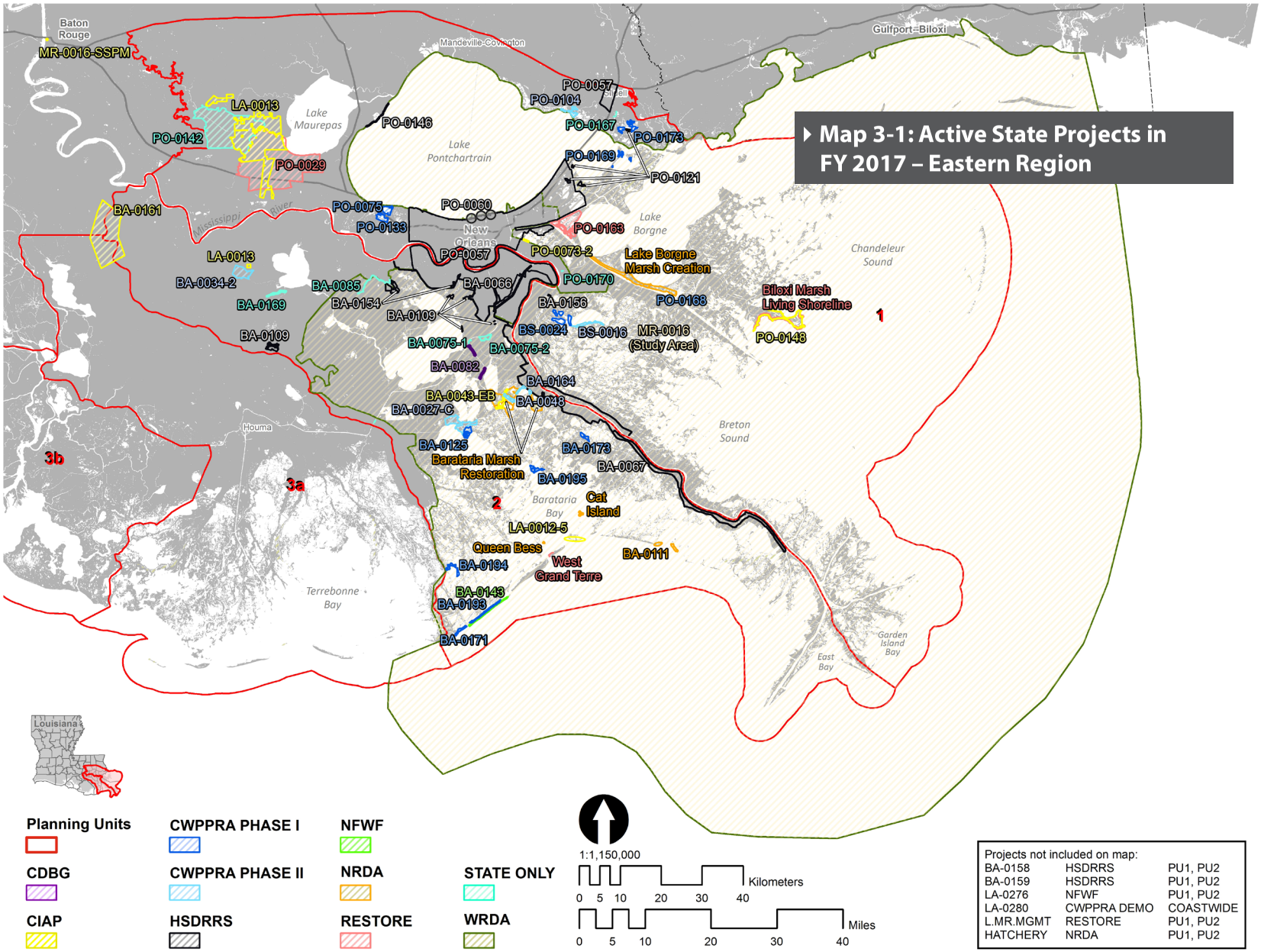
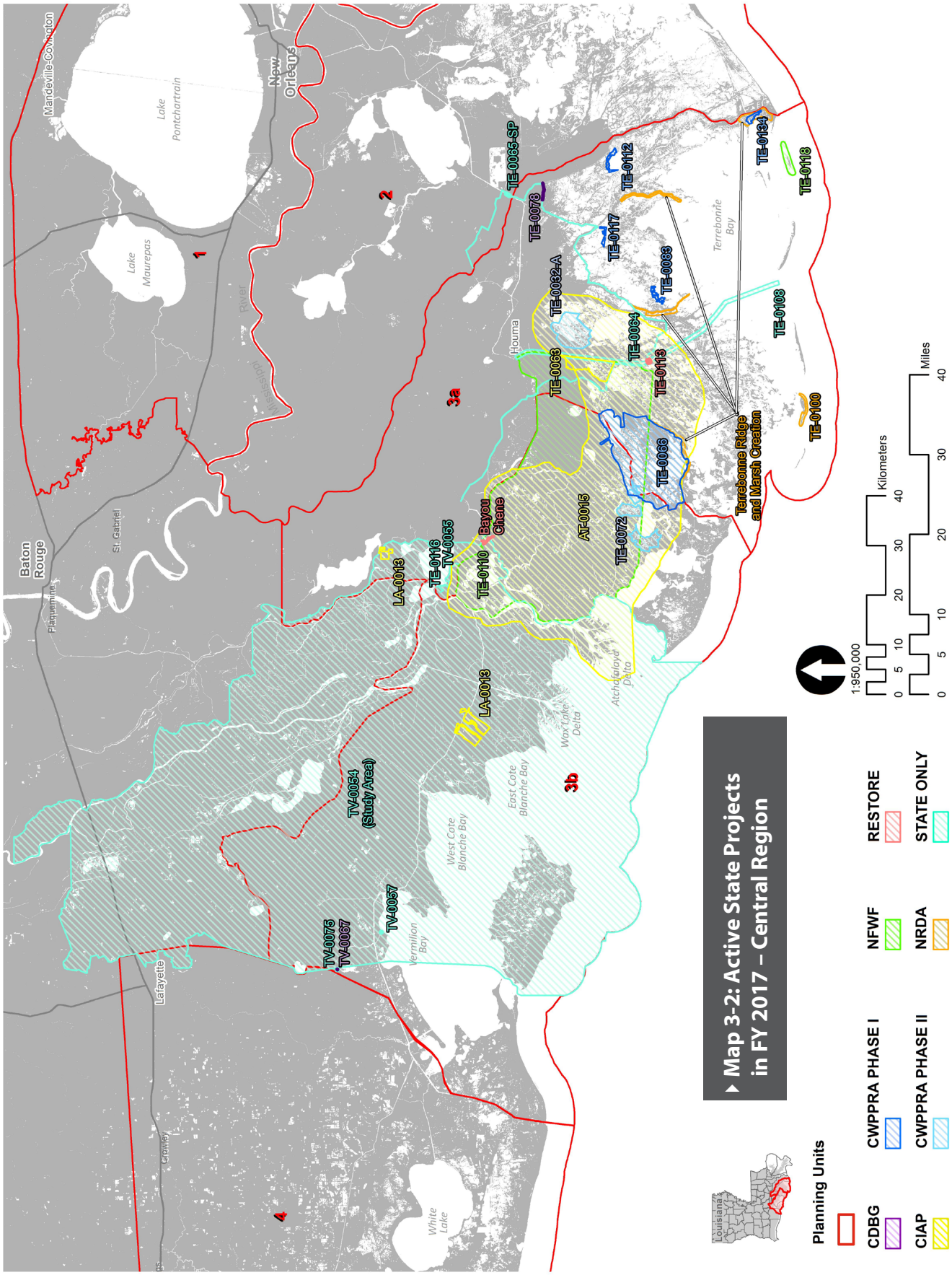
Map 3-1: Active State Projects in FY 2017 – Eastern Region



Projects not included on map:

BA-0158	HSDRRS	PU1, PU2
BA-0159	HSDRRS	PU1, PU2
LA-0276	NFWF	PU1, PU2
LA-0280	CWPPRA DEMO	COASTWIDE
L.MR.MGMT	RESTORE	PU1, PU2
HATCHERY	NRDA	PU1, PU2


Map 3-2: Active State Projects in FY 2017 – Central Region
Planning Units
CDBG
CWPPRA PHASE I
NFWF
RESTORE
CIAP
CWPPRA PHASE II
NRDA
STATE ONLY
Louisiana
1:950,000
0 5 10 20 30 40 Kilometers
0 5 10 20 30 40 Miles
Mandeville-Covington
New Orleans
Lake Pontchartrain
Lake Maurepas
Baton Rouge
Plaquemine
St. Gabriel
Houma
Terrebonne Bay
Lafayette
Crowley
Vermilion Bay
West Cote Blanche Bay
East Cote Blanche Bay
Wax Lake Delta
Atchafalaya Delta
White Lake
1
2
3a
3b
4
TE-0065-SP
TE-0078
TE-0112
TE-0134
TE-0118
TE-0117
TE-0033
TE-0032-A
TE-0108
TE-0064
TE-0063
TE-0113
TE-0100
TE-0066
TE-0072
AT-0015
Terrebonne Ridge and Marsh Creation
LA-0013
TE-0116
TV-0055
Bayou Chene
TE-0110
LA-0013
TV-0054 (Study Area)
TV-0057
TV-0075
TV-0067

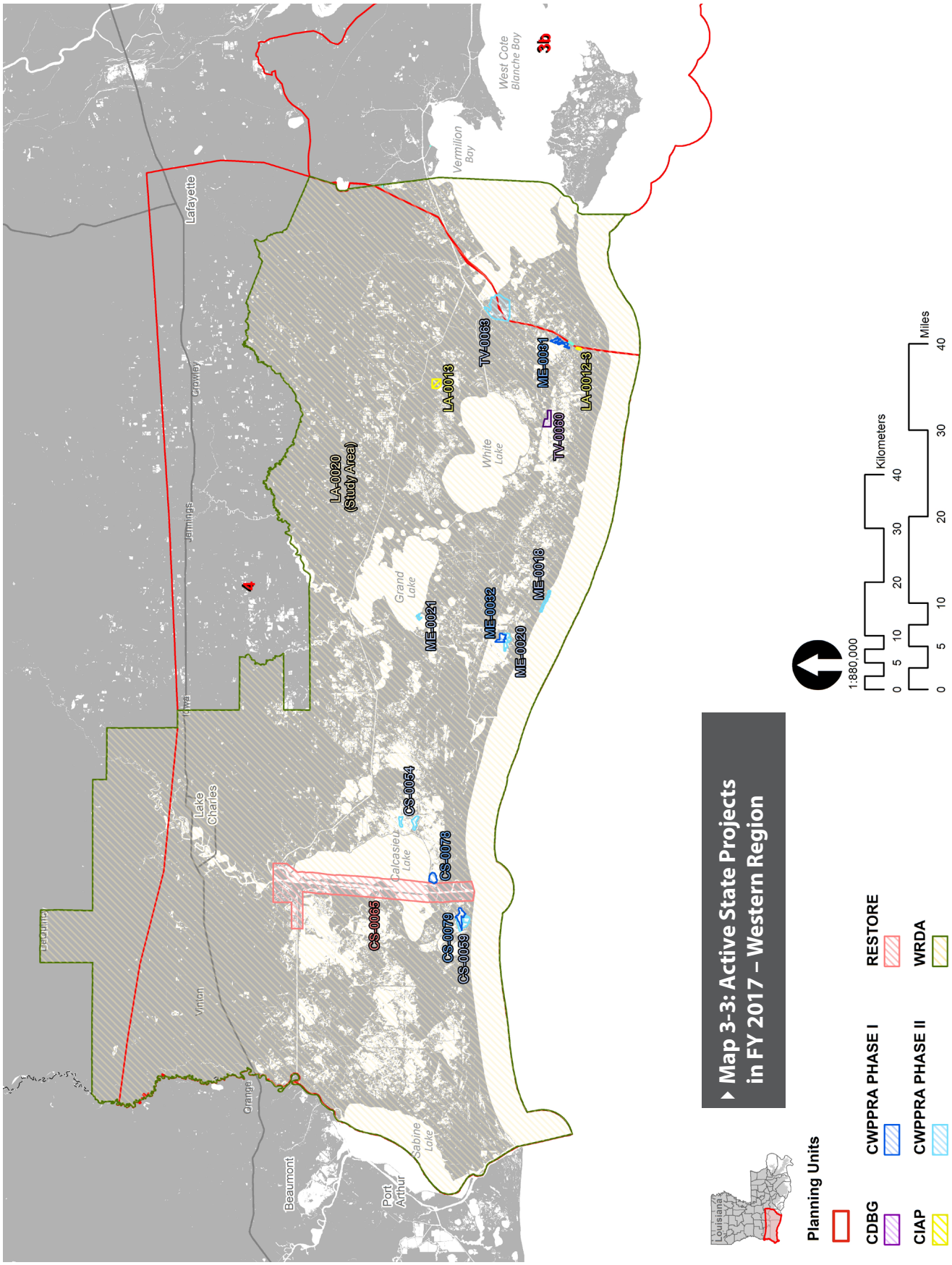

Map 3-3: Active State Projects in FY 2017 – Western Region
Planning Units
CDBG
CWPPRA PHASE I
RESTORE
CIAP
CWPPRA PHASE II
WRDA
Louisiana
1:880,000
0 5 10 20 30 40 Kilometers
0 5 10 20 30 40 Miles
Lafayette
Lake Charles
Beaumont
Port Arthur
Vermilion Bay
West Cote Blanche Bay
Calcasieu Lake
Grand Lake
White Lake
Sabine Lake
LA-0020 (Study Area)
LA-0013
LA-0012-3
TV-0063
TV-0060
ME-0021
ME-0022
ME-0020
ME-0018
ME-0031
CS-0054
CS-0076
CS-0065
CS-0079
CS-0059
3b
4

Table 3-1: Projects Scheduled to be in Construction in FY 2017

Project ID	Project Name	Construction Start Date[1]	Construction Finish Date	State Construction Budget
CWPPRA Phase II Projects				
BA-0027-C	Barataria Basin Landbridge Shoreline Protection, Phase 3-CU7 & 8	21-Jan-15	30-Dec-16	$ 3,765,298
BA-0034-2	Hydrologic Restoration and Vegetative Planting in the Des Allemands Swamp	01-Aug-16	1-Jun-17	$ 386,379
BA-0048	Bayou Dupont Marsh and Ridge Creation Project	11-Jun-13	31-Aug-16	$ 5,343,343
BA-0164	Bayou Dupont Sediment Delivery - Marsh Creation #3 and Terracing	15-Apr-16	18-Jul-16	$ 2,110,135
BS-0016	South Lake Lery Shoreline and Marsh Restoration	05-Sep-13	3-Jan-17	$ 4,470,149
CS-0054	Cameron-Creole Watershed Grand Bayou Marsh Creation	31-Mar-16	18-Sep-17	$ 3,154,323
CS-0059	Oyster Bayou Marsh Creation and Terracing	05-Apr-16	4-Dec-17	$ 2,713,913
ME-0018	Rockefeller Refuge Gulf Shoreline Stabilization	03-Oct-16	1-Jun-18	$ 4,605,957
ME-0020	South Grand Chenier Marsh Creation Project	17-Mar-16	25-May-17	$ 3,039,739
ME-0021	Grand Lake Shoreline Protection- Tebo Point	11-Apr-16	6-Feb-17	$ 936,305
PO-0104	Bayou Bonfouca Marsh Creation	15-Mar-16	10-Aug-17	$ 3,818,511
TE-0032-A	North Lake Boudreaux Basin Freshwater Introduction and Hydrologic Management	14-Oct-16	31-May-18	$ 2,263,453
TE-0072	Lost Lake Marsh Creation and Hydrologic Restoration	29-Mar-16	24-Nov-17	$ 4,845,977
TV-0063	Cole's Bayou Marsh Restoration	15-Dec-16	19-Mar-18	$ 3,081,543
CIAP Projects				
BA-0043-EB	Mississippi River Long Distance Sediment Pipeline[2]	17-Sep-13	1-Aug-16	$ 56,753,287
BA-0161	Mississippi River Water Reintroduction into Bayou Lafourche - BLFWD	16-Feb-15	27-Dec-16	$ 18,350,000
MR-0016-SSPM	Mississippi River Delta Strategic Planning- SSPM Expansion	15-Oct-14	30-Nov-16	$ 8,701,642
PO-0073-2	Central Wetlands - EBSTP to A2	25-Feb-16	17-Dec-16	$ 4,218,168
PO-0148	Living Shoreline	02-Oct-15	3-Dec-16	$ 23,650,000
TE-0063	Falgout Canal Freshwater Enhancement	05-Feb-16	5-Dec-16	$ 3,300,000
State-Only Projects				
BA-0075-1	Jean Lafitte Tidal Protection	19-Feb-14	28-Nov-17	$ 15,174,000
BA-0075-2	Rosethorne Tidal Protection	01-Jul-16	12-Apr-18	$ 16,275,000
BA-0085	St. Charles West Bank Hurricane Protection Levee	04-Dec-13	2-Oct-17	$ 8,000,000
BA-0169	Kramer/Bayou Boeuf Levee Lift	31-Oct-16	1-May-18	$ 800,000
PO-0142	Hydrologic Restoration of the Amite Diversion Canal	16-Mar-16	7-Sep-16	$ 2,542,100
PO-0170	Violet Canal North Levee Alignment	15-Jun-16	14-Jun-17	$ 1,154,000
TE-0064	Morganza to the Gulf	30-Nov-05	29-Aug-18	$ 121,556,411
TE-0065-SP	Larose to Golden Meadow - Larose Sheetpile	26-Jan-15	15-Aug-16	$ 8,000,000
TE-0116	St. Mary Backwater Flooding	12-Aug-16	9-May-18	$ 4,072,836
TV-0055	Morgan City/St. Mary Flood Protection	30-Jun-16	29-May-17	$ 3,370,000
TV-0075	Bayou Tigre Flood Control Complex	20-Apr-17	11-Feb-19	$ 5,702,000
CDBG Projects				
BA-0082	Lafitte Area Levee Repair	22-Jan-17	3-Mar-18	$ 600,000
TE-0078	Cut-Off/Pointe Aux Chene Levee	14-Jun-16	16-Oct-17	$ 7,095,000
TV-0060	Front Ridge Chenier Terracing/Protection	08-Apr-16	27-Apr-17	$ 1,421,572
TV-0067	Bayou Tigre Flood Control Project	31-May-16	22-Sep-17	$ 5,308,244

Table 3-1: Projects Scheduled to be in Construction in FY 2017

Project ID	Project Name	Construction Start Date[1]	Construction Finish Date	State Construction Budget
HSDRRS Projects[3,4]				
BA-0066	West Bank and Vicinity	27-Mar-07	31-Aug-17	$ 4,304,525,784
BA-0067	New Orleans to Venice	29-Oct-11	13-Sep-22	$ 1,523,760
BA-0109	HSDRRS Mitigation- WBV	27-Feb-15	14-Jun-19	$ 126,000,000
BA-0154	Previously Authorized Mitigation WBV[5]	04-Aug-14	31-Oct-18	$ 11,000,000
PO-0057	SELA- Overall	18-Feb-09	12-Oct-20	$ 1,170,974,586
PO-0060	Permanent Canal Closures and Pump Stations[6]	01-Jan-13	7-Feb-19	$ 614,800,000
PO-0121	HSDRRS Mitigation- LPV[6]	23-Jul-15	29-Dec-17	$ 29,750,000
PO-0146	Previously Authorized Mitigation LPV- Manchac[6]	27-May-11	14-Jul-16	$ 21,000,000
NRDA Early Restoration Projects				
BA-0111	Shell Island West- NRDA	31-Mar-15	1-May-17	$ 100,307,860
TE-0100	NRDA Caillou Lake Headlands	22-Jul-15	5-Jul-18	$ 107,106,000
NFWF Projects				
BA-0143	Caminada Headland Beach and Dune Restoration Increment 2	28-May-14	23-Nov-16	$ 144,551,441

Notes:

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

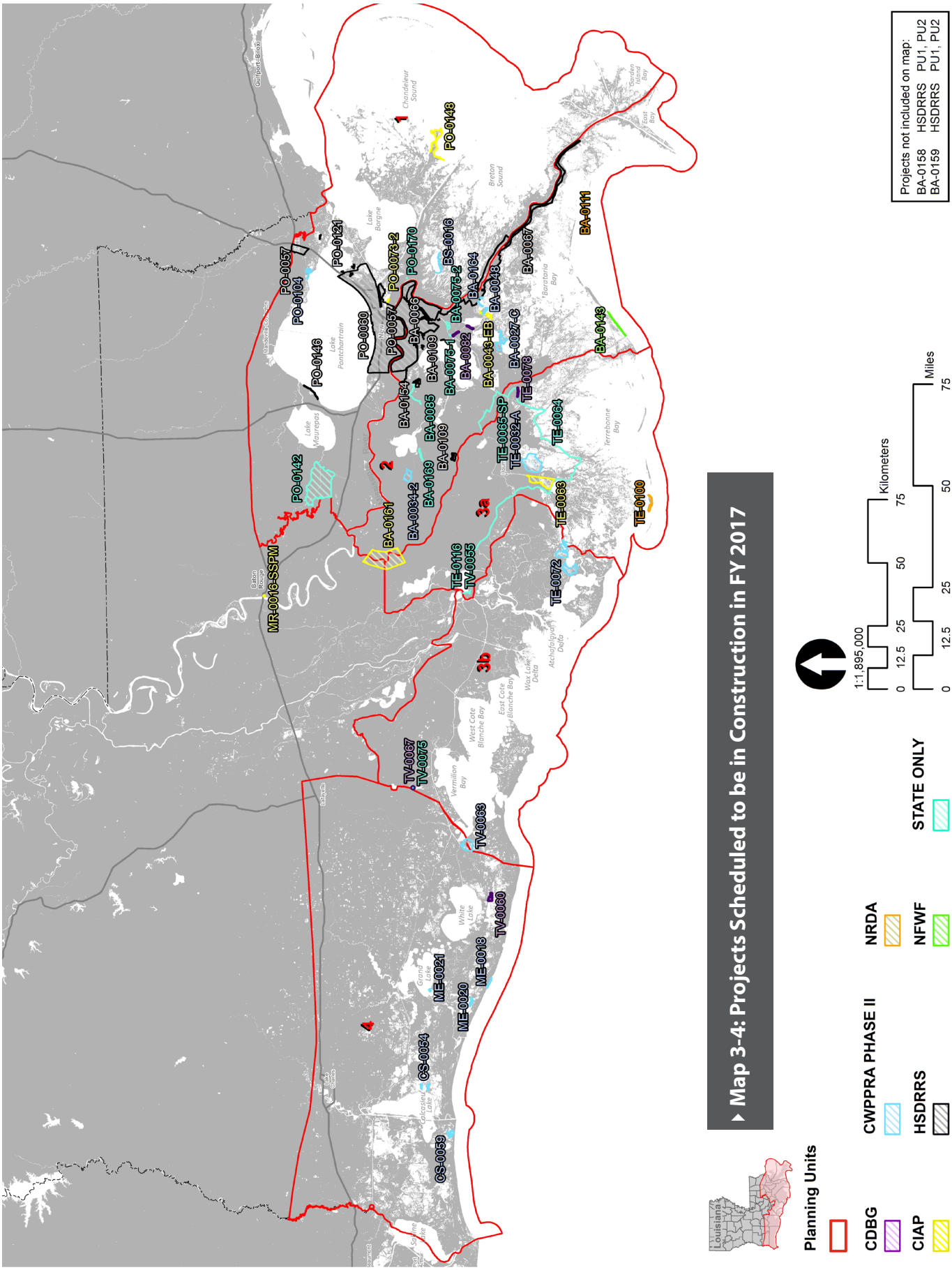
2- Project partially funded with Surplus funds.

3- Full construction budget is presented.

4- Pending completion of approval process.

5- Project cost included in total cost for BA-0066.

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


Map 3-4: Projects Scheduled to be in Construction in FY 2017
Planning Units
CDBG
CIAP
CWPPRA PHASE II
HSDRRS
NRDA
NFWF
STATE ONLY
1:1,895,000
0 12.5 25 50 75 Kilometers
0 12.5 25 50 75 Miles
Projects not included on map:
BA-0158 HSDRRS PU1, PU2
BA-0159 HSDRRS PU1, PU2
PO-0148
PO-0121
PO-0057
PO-0104
PO-0146
PO-0050
PO-0057-2
PO-0170
BA-0066
BA-0109
BA-0154
BA-0085
BA-0109
BA-0075-1
BA-0032
BS-0016
BA-0164
BA-0075-2
BA-0043
BA-0043-EB
BA-0027-C
BA-0067
BA-0111
BA-0143
TE-0078
TE-0064
TE-0065-SP
TE-0082-A
TE-0063
TE-0100
PO-0142
BA-0161
BA-0034-2
BA-0169
BA-0109
TE-0116
TV-0055
TE-0072
MR-0016-SSPM
TV-0067
TV-0075
TV-0063
TV-0060
ME-0018
ME-0020
ME-0021
CS-0034
CS-0059
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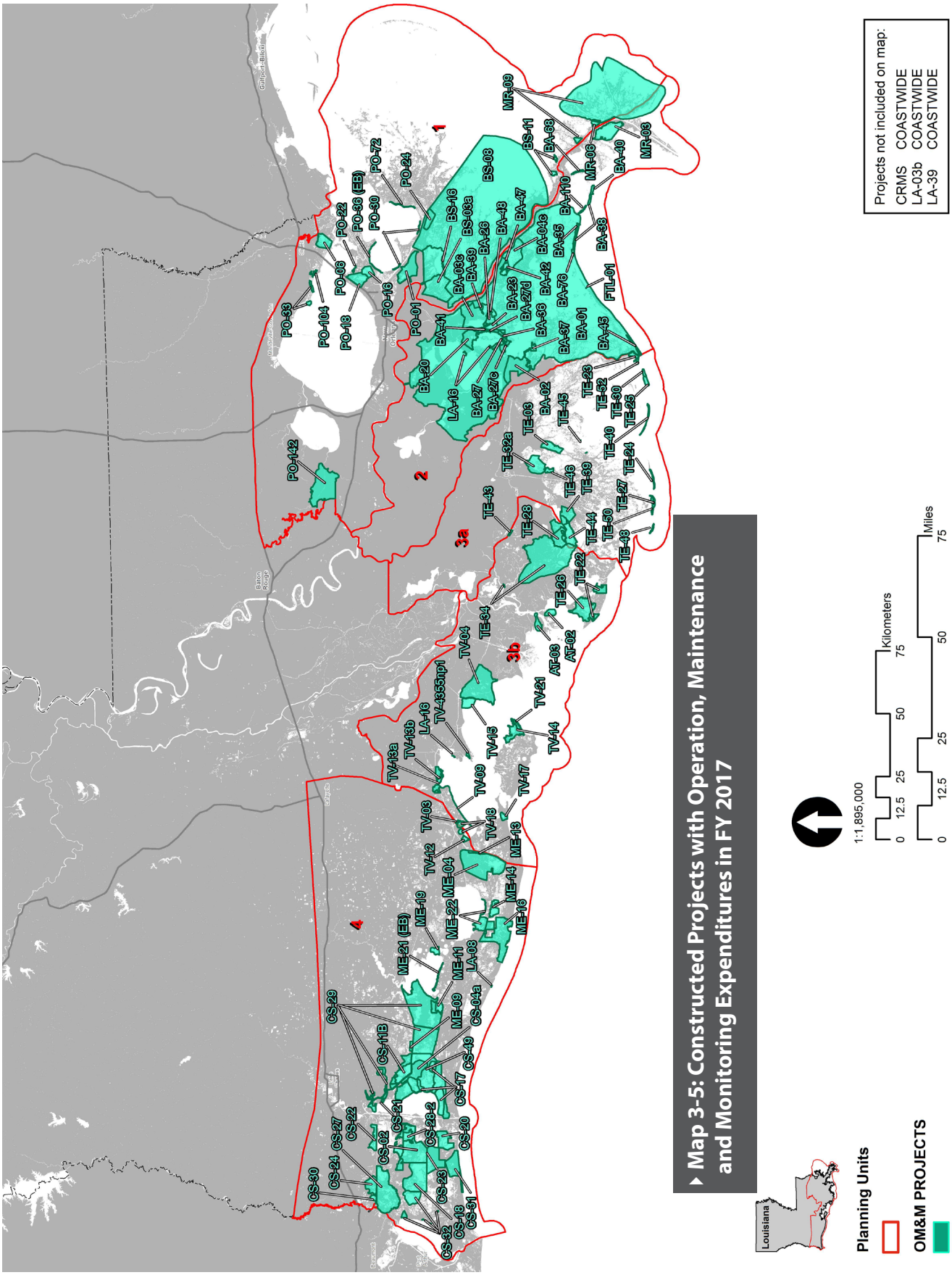

Map 3-5: Constructed Projects with Operation, Maintenance and Monitoring Expenditures in FY 2017

Table 3-2: Projected Three-Year Schedules for Active CWPPRA Projects (FY 2017 - 2019)

Project ID	Project Name	Tier	Federal Sponsor	FY 2017				FY 2018				FY 2019			
				1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q
CWPPRA Phase I Projects															
BA-0125	Northwest Turtle Bay Marsh Creation	2	USFWS	D	D	D	D	W	W	W	W	W	W	W	W
BA-0171	Caminada Headland Back Barrier Marsh Creation	1	EPA	D	D	W	W	W	W	W	W	W	W	W	W
BA-0173	Bayou Grande Cheniere Marsh and Ridge Restoration	1	USFWS	D	D	W	W	W	W	W	W	W	W	W	W
BA-0193	Caminada Headlands Back Barrier Marsh Creation Increment 2	2	EPA	D	D	D	D	D	D	D	D	D	D	D	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
BS-0024	Terracing and Marsh Creation South of Big Mar	2	USFWS	D	D	W	W	W	W	W	W	W	W	W	W
CS-0078	No Name Bayou Marsh Creation & 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	D	D	D	D	W	W
ME-0031	Freshwater Bayou Marsh Creation (CWPPRA)	1	NRCS	D	D	D	D	D	D	D	D	D	W	W	W
ME-0032	South Grand Chenier Marsh Creation - Baker Tract	1	NRCS	D	D	D	D	D	D	W	W	W	W	W	W
PO-0075	LaBranche East Marsh Creation	2	NRCS	D	D	D	W	W	W	W	W	W	W	W	W
PO-0133	Labranche Central Marsh Creation	2	NRCS	D	D	D	W	W	W	W	W	W	W	W	W
PO-0168	Shell Beach South Marsh Creation	1	EPA	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	D	D	W	W	W	W
PO-0173	Fritchie Marsh Creation and Terracing	1	USACE	D	D	D	D	D	D	D	D	D	D	W	W
TE-0066	Central Terrebonne Freshwater Enhancement	1	NRCS	D	D	D	D	D	D	D	D	W	W	W	W
TE-0083	Terrebonne Bay Marsh Creation	1	USFWS	D	D	D	D	D	D	W	W	W	W	W	W
TE-0112	North Catfish Lake Marsh Creation	2	NRCS	D	D	D	D	D	D	W	W	W	W	W	W
TE-0117	Island Road Marsh Creation and Nourishment	1	NOAA	D	D	D	D	D	D	W	W	W	W	W	W
TE-0134	West Fourchon Marsh Creation	1	NOAA	D	D	D	D	D	D	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
CS-0066	Cameron Meadows Marsh Creation and Terracing	2	NOAA	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
CS-0053	Kelso Bayou Marsh Creation[1]	1	NRCS												
TE-0039-CU2	South Lake Decade Freshwater Introduction - CU2[2]	1	NRCS												

Project ID	Project Name	Tier	Federal Sponsor	FY 2017				FY 2018				FY 2019			
				1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q
CWPPRA Phase II Projects															
BA-0027-C	Barataria Basin Landbridge SP, Phase 3-CU7 & 8	C	NRCS	C	F	O	O	O	O	O	O	O	O	O	O
BA-0034-2	Hydrologic Restoration and Vegetative Planting in the Lac des Allemands Swamp	2	EPA	B	C	C	F	O	O	O	O	O	O	O	O
BA-0048	Bayou Dupont Marsh and Ridge Creation Project	1	NOAA	F	O	O	O	O	O	O	O	O	O	O	O
BA-0164	Bayou Dupont Sediment Delivery- Marsh Creation 3	1	EPA	F	O	O	O	O	O	O	O	O	O	O	O
BS-0016	South Lake Lery Shoreline and Marsh Restoration	1	USFWS	C	C	F	O	O	O	O	O	O	O	O	O
CS-0054	Cameron-Creole Watershed Grand Bayou Marsh Creation	1	USFWS	C	C	C	C	F	O	O	O	O	O	O	O
CS-0059	Oyster Bayou Marsh Creation and Ter-racing	1	NOAA	C	C	C	C	C	F	O	O	O	O	O	O
ME-0018	Rockefeller Refuge Gulf Shoreline Stabi-lization	1	NOAA	B	C	C	C	C	C	C	F	O	O	O	O
ME-0020	South Grand Chenier Marsh Creation Project	C	USFWS	C	C	C	F	O	O	O	O	O	O	O	O
ME-0021	Grand Lake Shoreline Protection, Tebo Point	1	NRCS	C	C	F	O	O	O	O	O	O	O	O	O
PO-0104	Bayou Bonfouca Marsh Creation	2	USFWS	C	C	C	C	F	O	O	O	O	O	O	O
TE-0032-A	North Lake Boudreaux Basin Freshwater Introduction and Hydrologic Management	1	USFWS	D	D	C	C	C	C	C	F	O	O	O	O
TE-0072	Lost Lake Marsh Creation and Hydrologic Restoration	1	USFWS	C	C	C	C	C	F	O	O	O	O	O	O
TV-0063	Cole's Bayou Marsh Restoration	1	NOAA	D	B	C	C	C	C	F	O	O	O	O	O
CWPPRA Phase II Projects															
LA-0280	Shoreline Protection, Preservation, and Restoration (SSPR) Panel	2	NOAA	D	D	D	D	D	D	D	D	D	D	C	C

Legend				
References	P	Feasibility & Planning	B	Both Design & Construction
1. Project being transferred to Chenier Plain Coastal Restoration and Protection Authority.	D	Engineering & Design	F	Construction Complete
2. Project currently on hold; schedule to be updatedwhen implementation recommences.	W	Awaiting Additional Funding for Implementation	I	Program Implementation
	C	Construction	O	Operations, Maintenance, & Monitoring

Table 3-3: Projected Three-Year Schedules for Active WRDA Projects (FY 2017 - 2019)

Project ID	Project Name	Tier	Federal Sponsor	FY 2017				FY 2018				FY 2019			
				1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q
Other WRDA Projects															
MR-0016	Mississippi River Hydrodynamic and Delta Management Study[1]	1	USACE	P	P	P	P	P	P	W	W	W	W	W	W
PO-0068	LCA Small Diversion at Convent / Blind River[2]	1	USACE	W	W	W	W	W	W	W	W	W	W	W	W
Other WRDA Projects															
LA-0020	Southwest Coastal Louisiana Feasibility Study[3]	1	USACE	P	W	W	W	W	W	W	W	W	W	W	W

Legend				
References	1. Project partially funded by CIAP funds. 2. Project currently on hold; schedule to be updated when implementation recommences. 3. Project partially funded by Surplus funds.	P	Feasibility & Planning	B	Both Design & Construction
		D	Engineering & Design	F	Construction Complete
		W	Awaiting Additional Funding for Implementation	I	Program Implementation
		C	Construction	O	Operations, Maintenance, & Monitoring

Table 3-4: Projected Three-Year Schedules for Active CIAP Projects (FY 2017 - 2019)

Project ID	Project Name	Tier	Federal Sponsor	FY 2017				FY 2018				FY 2019			
				1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q
Restoration Projects															
AT-0015	Atchafalaya Long Distance Sediment Pipeline	1	USFWS	D	D										
BA-0043-EB	Long Distance Mississippi River Sediment Pipeline[1]	C	USFWS	F											
BA-0161	Mississippi River Water Reintroduction into Bayou Lafourche - BLFWD	C	USFWS	C	F										
LA-0012-3	Performance Evaluation - Freshwater Bayou	2	USFWS	O	O										
LA-0012-5	CIAP Performance Evaluation - Barrier Island Studies	2	USFWS	O	O										
LA-0013	Coastal Forest Conservation Initiative	1	USFWS	I											
MR-0016-SSPM	Mississippi River Delta Strategic Planning- SSPM Expansion	C	USFWS	C	F										
PO-0073-2	Central Wetlands - EBSTP to A2	C	USFWS	C	F										
PO-0148	Living Shoreline	C	USFWS	C	F										
TE-0063	Falgout Canal Freshwater Enhancement	2	USFWS	C	F										

Legend				
References	1. Project partially funded by Surplus funds.	P	Feasibility & Planning	B	Both Design & Construction
		D	Engineering & Design	F	Construction Complete
		W	Awaiting Additional Funding for Implementation	I	Program Implementation
		C	Construction	O	Operations, Maintenance, & Monitoring

Table 3-5: Projected Three-Year Schedules for Active State-Only Projects (FY 2017 - 2019)

Project ID	Project Name	Tier	Federal Sponsor	FY 2017				FY 2018				FY 2019			
				1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q
State Non-Surplus Projects															
PO-0142	Hydrologic Restoration of the Amite River Diversion Canal	1	N/A	C	F										
State Surplus Projects															
BA-0075-1	Jean Lafitte Tidal Protection	1	N/A	C	C	C	C	C	F						
BA-0075-2	Rosethorne Tidal Protection	1	N/A	B	C	C	C	C	C	C	F				
BA-0085	St. Charles West Bank Hurricane Protection Levee	1	N/A	B	B	C	C	C	F						
BA-0169	Kramer/Bayou Boeuf Levee Lift	1	N/A	D	B	C	C	C	C	C	F				
PO-0167	South Slidell Ring Levee[1]	1	N/A	D	D	D	D	D	D						
PO-0170	Violet Canal North Levee Alignment	1	N/A	C	C	C	F								
TE-0064	Morganza to the Gulf	C	USACE	C	C	C	C	C	C	C	C	F			
TE-0065-SP	Larose to Golden Meadow Flood Protection- Larose Sheetpile[2]	1	USACE	C	F										
TE-0108	HNC Deepening Section 203 Study	2	USACE	P	P	P	P	P							
TE-0116	St. Mary Backwater Flooding	1	N/A	D	B	C	C	C	C	C	F				
TV-0054	South Central Coastal Plan	-	N/A	P	P	P	P	P	P	P	P	P	P		
TV-0055	Morgan City/ St Mary Flood Protection	1	N/A	B	C	C	F								
TV-0057	Delcambre-Avery Canal (E&D)	1	N/A	D	D	D	D								
TV-0075	Bayou Tigre Flood Control Complex	1	N/A	D	D	D	B	C	C	C	C	C	C	F	

Legend				
	P	Feasibility & Planning	B	Both Design & Construction
	D	Engineering & Design	F	Construction Complete
	W	Awaiting Additional Funding for Implementation	I	Program Implementation
	C	Construction	O	Operations, Maintenance, & Monitoring

References

1. Funding is for E&D activities only. No construction or O&M activities are funded at this time.
2. Project will involve additional levee modifications and improvements within the Larose to Golden Meadow system beyond those completed in FY 2015.

Table 3-6: Projected Three-Year Schedules for Active CDBG Projects (FY 2016 - 2018)

Project ID	Project Name	Tier	Federal Sponsor	FY 2017				FY 2018				FY 2019			
				1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q
BA-0082	Lafitte Area Levee Repair	1	HUD	D	D	B	C	C	C	F					
TE-0078	Cut-Off/Pointe Aux Chene Levee	1	HUD	C	C	C	C	C	F						
TV-0060	Front Ridge Chenier Terracing/Protection	1	HUD	C	C	C	F								
TV-0067	Bayou Tigre Flood Control Project	1	HUD	C	C	C	C	F							

Legend					
References	P	Feasibility & Planning	B	Both Design & Construction
	D	Engineering & Design	F	Construction Complete
	W	Awaiting Additional Funding for Implementation	I	Program Implementation
	C	Construction	O	Operations, Maintenance, & Monitoring

Table 3-7: Projected Three-Year Schedules for Active HSDRRS Projects (FY 2016 - 2018)[1]

Project ID	Project Name	Tier	Federal Sponsor	FY 2017				FY 2018				FY 2019			
				1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q
BA-0066	West Bank and Vicinity[2,3]	C	USACE	C	C	C	C	F							
BA-0067	New Orleans to Venice[2]	1	USACE	C	C	C	C	C	C	C	C	C	C	C	C
BA-0109	HSDRRS Mitigation- WBV[2]	2	USACE	B	B	B	C	C	C	C	C	C	C	C	F
BA-0154	Previously Authorized Mitigation WBV[2]	2	USACE	B	C	C	C	C	C	C	C	C	F		
BA-0156	Plaquemines TFU Mitigation - Braithwaite to Scarsdale - Big Mar[2]	2	USACE	D	D	D	D	C	C	C	F				
BA-0158	New Orleans to Venice Mitigation - Plaquemines Non-Federal[2]	2	USACE	D	D	D	D	D	C	C	C	C	C	C	C
BA-0159	New Orleans to Venice Mitigation - Federal[2]	2	USACE	D	D	D	D	D	C	C	C	C	C	C	C
PO-0057	SELA- Overall[2]	C	USACE	C	C	C	C	C	C	C	C	C	C	C	C
PO-0060	Permanent Canal Closures and Pump Stations[2]	1	USACE	C	C	C	C	C	C	C	C	C	C	F	
PO-0121	HSDRRS Mitigation- LPV[2]	2	USACE	B	B	C	C	C	F						
PO-0062	West Shore-Lake Pontchartrain, Louisiana Hurricane Protection Project Feasibility Study[2]	1	USACE	W	W	W	W	W	W	W	W	W	W	W	W
PO-0146	Previously Authorized Mitigation LPV-Manchac[2]	C	USACE	F											
BA-0148	Risk Reduction- Barataria Basin Landbridge[4]	2	USACE												
BS-0003-B	Risk Reduction Via Modification to the Caernarvon Freshwater Diversion[4]	2	USACE												

Legend				
	P	Feasibility & Planning	B	Both Design & Construction
	D	Engineering & Design	F	Construction Complete
	W	Awaiting Additional Funding for Implementation	I	Program Implementation
	C	Construction	O	Operations, Maintenance, & Monitoring

References

1. OM&M duties are the responsibility of the local sponsor.
2. State expenditures may be covered with Surplus allocation for HSDRRS LERRDS.
3. Payments for 30-year payback to commence upon completion of construction activities. According to the USACE, payback will begin in calendar year 2019.
4. Project currently on hold; schedule to be updated when implementation recommences.

Table 3-8: Projected Three-Year Schedules for Active and Proposed Oil Spill Projects (FY 2016 - 2018)

Project ID	Project Name	Tier	Federal Sponsor	FY 2017				FY 2018				FY 2019			
				1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q
***Deepwater Horizon* NRDA Projects**															
BA-0111	Shell Island West- NRDA	1	N/A	C	C	C	F								
TE-0100	NRDA Caillou Lake Headlands	1	N/A	C	C	C	C	C	C	C	C	F			
N/A	Salt Water Hatchery	-	N/A	W	W	W	W	W	W	W	W	W	W	W	W
N/A	Barataria Marsh Restoration	-	N/A	W	W	W	W	W	W	W	W	W	W	W	W
N/A	Queen Bess	-	N/A	W	W	W	W	W	W	W	W	W	W	W	W
N/A	Cat Island(s)	-	N/A	W	W	W	W	W	W	W	W	W	W	W	W
N/A	Terrebonne Ridges and Marsh	-	N/A	W	W	W	W	W	W	W	W	W	W	W	W
N/A	Lake Borgne Marsh	-	N/A	W	W	W	W	W	W	W	W	W	W	W	W
NFWF Projects															
BA-0143	Caminada Headland Beach and Dune Restoration Increment 2	1	N/A	C	F										
LA-0276	Sediment Diversion Implemenation and Program Management[1]	1	N/A	D	D	D	D	D	D	D	D	D	D	D	D
TE-0110	Increase Atchafalaya Flow to Eastern Terrebonne	1	N/A	D	D	D	D	D	D	D	D	D	D	W	W
TE-0118	East Timbalier Island Restoration	1	N/A	D	D	D	D	W	W	W	W	W	W	W	W
RESTORE Projects (Proposed)															
CS-0065	Calcasieu Ship Channel Salinity Control Measures	1	N/A	D	D	D	D	D	D	D	D	D	D	W	W
PO-0029	Mississippi River Reintroduction into Maurepas Swamp	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	D	D	D	W	W
PO-0163	Golden Triangle Marsh Creation	-	N/A	W	W	W	W	W	W	W	W	W	W	W	W
N/A	West Grand Terre Beach Nourishment and Stabilization	-	N/A	W	W	W	W	W	W	W	W	W	W	W	W
N/A	Biloxi Oyster Reef	-	N/A	W	W	W	W	W	W	W	W	W	W	W	W
N/A	Lower Mississippi River Management	-	N/A	W	W	W	W	W	W	W	W	W	W	W	W
N/A	Bayou Chene Hydrologic Structure	-	N/A	W	W	W	W	W	W	W	W	W	W	W	W

Legend				
	P	Feasibility & Planning	B	Both Design & Construction
	D	Engineering & Design	F	Construction Complete
	W	Awaiting Additional Funding for Implementation	I	Program Implementation
	C	Construction	O	Operations, Maintenance, & Monitoring

References

1. Project involves program management of the Mid-Barataria and Mid-Breton Sediment Diversions.

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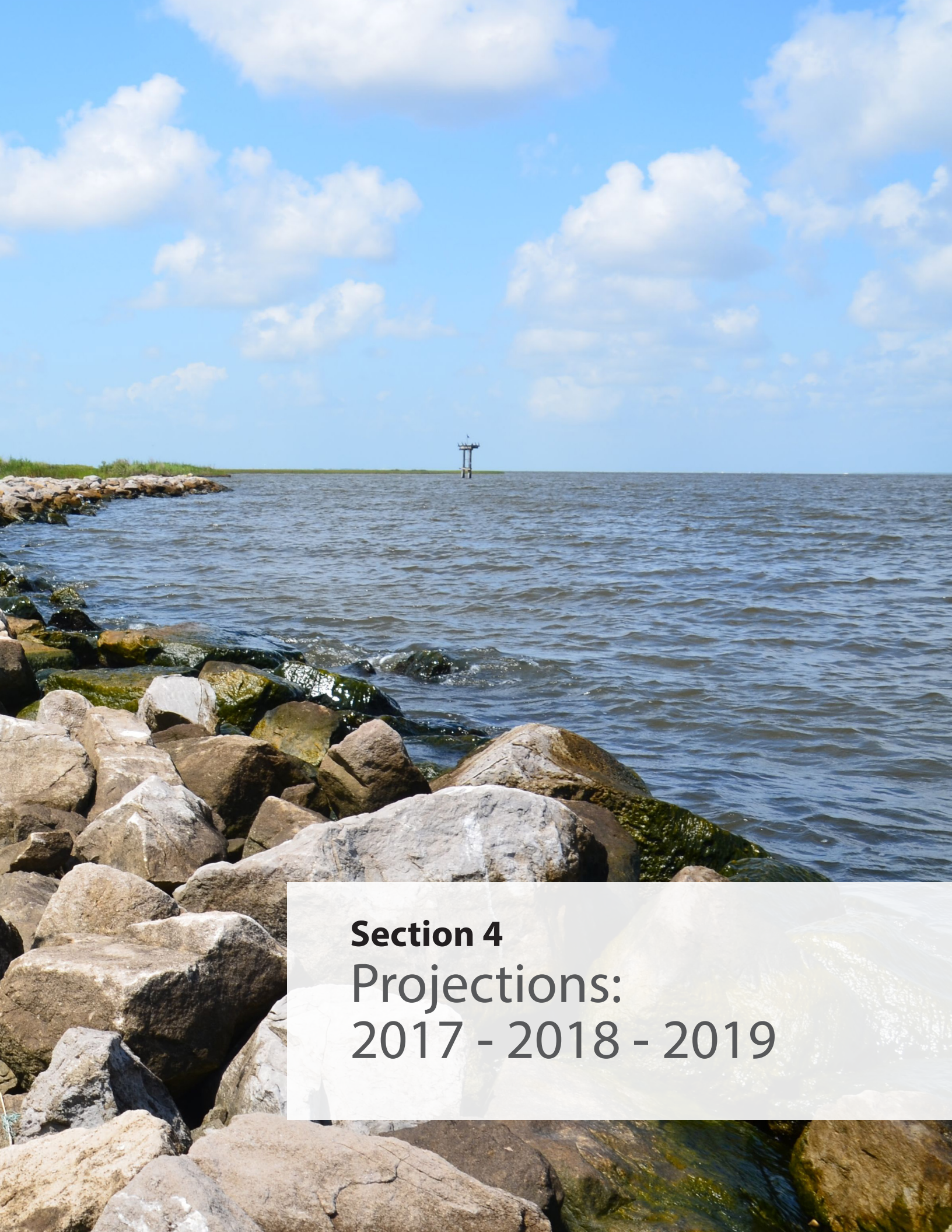

Section 4

Projections: 2017 - 2018 - 2019

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Section 4
Projections: Fiscal Years 2017 – 2018 – 2019

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 2017–FY 2019, 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 2017 (July 1, 2016 through June 30, 2017). 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 this 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 2017 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 USFWS Administrator of the CIAP program allocated approximately $495.7 million in CIAP funds to Louisiana and its 19 coastal parishes over a four-year period, with the state receiving 65 percent. All state CIAP funds are expected to be expended by December 2016.

- 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 2018.

- 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 2017 and is expected to eventually contribute $100–200 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.

- 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 non-state entities may submit Capital Outlay requests for inclusion in the proposal. For FY 2017, the CPRA is requesting Capital Outlay funding to supplement implementation of 12 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 2015 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 2017 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.

Table 4-1: Projected Three-Year Revenues (FY 2017 - FY 2019)

Revenue Sources	FY 2017	FY 2018	FY 2019	Program Total (FY 2017 - FY 2019)
CPR Trust Fund Annual Revenue[1,2]	$14,498,219	$15,400,000	$15,900,000	$45,798,219
CPR Trust Fund Carried Forward	$17,503,196	$4,488,384	$0	$21,991,580
GOMESA[1]	$80,775	$140,000,000	$140,000,000	$280,080,775
DOTD Interagency Transfer[1]	$4,000,000	$4,000,000	$4,000,000	$12,000,000
DOTD Interagency Transfer- Projects	$346,309	$31,310	$0	$377,619
CWPPRA Federal Funds[3]	$96,923,059	$78,008,368	$76,377,059	$251,308,486
CIAP	$36,044,614	$0	$0	$36,044,614
Surplus '07, '08, '09	$186,504,205	$32,155,061	$10,225,045	$228,884,311
Community Development Block Grants	$11,475,039	$2,916,435	$0	$14,391,474
Capital Outlay Funds	$5,250,000	$0	$0	$5,250,000
Deepwater Horizon NRDA	$148,561,937	$88,557,743	$50,000,000	$287,119,680
NFWF	$80,556,751	$15,808,676	$15,308,676	$111,674,103
Proposed RESTORE Revenues	$36,068,695	$27,299,754	$74,667,260	$138,035,709
LDNR Mitigation Funds[4]	$500,000	$0	$0	$500,000
LDNR Beneficial Use Funds[4]	$500,000	$0	$0	$500,000
Iberia Parish IGA[5]	$380,000	$0	$0	$380,000
MOEX Settlement[6]	$3,101,619	$76,164	$1,595,736	$4,773,519
OCD-DRU Grant[7]	$112,000	$0	$0	$112,000
Berm to Barrier[8]	$87,528	$86,124	$8,760	$182,412
OM&M Federal Funds[9]	$22,600,457	$16,585,200	$14,508,408	$53,694,065
FEMA Reimbursement for OM&M[10,11]	$1,510,886	$0	$0	$1,510,886
FEMA Reimbursement for Isaac Beach and Dune Project Repair[12]	$34,562,851	$34,562,851	$0	$69,125,702
Additional Funding for Isaac Beach and Dune Project Repair	$11,390,037	$11,260,793	$0	$22,650,830
LOSCO Funding[13]	$55,480	$106,360	$106,360	$268,200
Project Billing	$23,000,000	$23,920,000	$24,876,800	$71,796,800
Capital Outlay Request Submitted for HSDRRS 30-Year Payback	$0	$0	$99,424,680	$99,424,680
Total Projected Revenue	**$735,613,656**	**$495,263,223**	**$526,998,784**	**$1,757,875,663**

Notes

1. Annually recurring revenue source to be spent in accordance with the Louisiana Constitution, specifically State Law Section 214.5.4(E) and the provisions within paragraph (3).
2. Estimate tied to mineral revenue.
3. 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. Supplemental funding to augment construction of eligible projects (specific projects to be determined at a later date).
5. Used to partially fund TV-0057.
6. Represents anticipated balance as of FY 2017 of an initial deposit of $6.75 million of funds from the MOEX settlement.
7. Grant for development of Flood Risk and Resilience Program.
8. Used to fund monitoring of constructed Berm to Barrier projects.
9. Represents anticipated Federal reimbursement for CWPPRA and WRDA OM&M activities led by CPRA in which the State is initially incurring more than its cost share during project implementation.
10. Represents anticipated reimbursement associated with recovery from past distasters which has been obligated by FEMA.
11. 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) untis 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.
12. Represents anticipated reimbursement of FEMA recovery funds through the FEMA appeals process to restore various beach and dune restoration projects damaged by Hurricane Isaac.
13. Represents reimbursement of expenditures for CPRA oil spill response activities.

Table 4-2: Projected Three-Year Expenditures[1] (FY 2017 - FY 2019)

Program / Funding Source	FY 2017	FY 2018	FY 2019	Program Total (FY 2017 - FY 2019)
CWPPRA State Expenditures (not including Surplus expenditures)[2]	$13,363,600	$11,991,632	$13,622,941	$38,978,173
CWPPRA Federal Expenditures[3]	$96,923,059	$78,008,368	$76,377,059	$251,308,486
WRDA Project Expenditures (not including Surplus or CIAP expenditures)	$0	$0	$0	$0
CIAP Projects and Program Expenditures (not including Surplus Expenditures)	$36,044,614	$0	$0	$36,044,614
Surplus Projects and Program Expenditures	$186,504,205	$32,155,061	$10,225,045	$228,884,311
Community Development Block Grants	$11,475,039	$2,916,435	$0	$14,391,474
HSDRRS 30-Year Payback[4]	$0	$0	$99,424,680	$99,424,680
MOEX Project Expenditures	$3,101,619	$76,164	$1,595,736	$4,773,519
DOTD Interagency Transfer- HNC Deepening Expenditures	$346,309	$31,310	$0	$377,619
Capital Outlay Project Expenditures	$5,250,000	$0	$0	$5,250,000
State-Only Project Expenditures (Non-Surplus)	$89,500	$172,500	$62,500	$324,500
Deepwater Horizon NRDA Expenditures	$148,561,937	$88,557,743	$50,000,000	$287,119,680
NFWF Expenditures (not including Surplus Expenditures)	$80,556,751	$15,808,676	$15,308,676	$111,674,103
Proposed RESTORE Expenditures (not including Surplus Expenditures)	$36,068,695	$27,299,754	$74,667,260	$138,035,709
LDNR Mitigation Expenditures[5]	$500,000	$0	$0	$500,000
LDNR Beneficial Use Expenditures[5]	$500,000	$0	$0	$500,000
Iberia Parish IGA Expenditures[6]	$380,000	$0	$0	$380,000
OM&M- State Expenditures (not including Surplus or CIAP expenditures)	$8,333,581	$9,354,267	$6,257,311	$23,945,159
OM&M- Federal Expenditures[7]	$22,600,457	$16,585,200	$14,508,408	$53,694,065
OM&M- Marine Debris Removal (Partially Reimbused by FEMA)[8]	$1,640,130	$0	$0	$1,640,130
OM&M- Isaac Beach and Dune Recovery (Partially Reimbursed by FEMA)[9]	$45,823,644	$45,823,644	$0	$91,647,288
Operating Costs (see Tables 4-3 and 4-4)	$37,550,517	$60,225,519	$62,743,664	$160,519,700
Total Projected Expenditures	**$735,613,656**	**$389,006,273**	**$424,793,280**	**$1,549,413,209**

Notes

1. Represents proposed expenditures provided that commensurate level of funding is received.
2. Because CWPPRA projects compete for funding annually, CWPPRA expenditures as presented in Appendix B (which include projected expenditures for approved projects only) do not adequately capture likely CWPPRA expenditures in outlying years. The State's estimated CWPPRA expenditures for FY 2018 - FY 2019 are therefore based on prior years' expenditures.
3. Represents anticipated Federal reimbursement for CWPPRA projects led by CPRA in which the State is initially incurring more than its 15% cost share during project implementation.
4. Payback is based on current HSDRRS construction schedule; payback will not commence until completion of HSDRRS construction activities. According to current estimates, payback will commence in September 2019 with an estimated annual payment of $99.4 million.
5. Supplemental funding to augment construction of eligible projects (specific projects to be determined at a later date).
6. Used to partially fund TV-57.
7. Represents anticipated Federal reimbursement for CWPPRA and WRDA OM&M activities led by CPRA in which the State is initially incurring more than its cost share during project implementation.
8. Represents anticipated reimbursement associated with recovery from past distasters which has been obligated by FEMA.
9. Represents anticipated reimbursement of FEMA recovery funds through the FEMA appeals process to restore various beach and dune restoration projects damaged by Hurricane Isaac.

Table 4-3: Programmatic Projected Three-Year Expenditures (FY 2017 - FY 2019)

Program	FY 2017	FY 2018	FY 2019	Program Total (FY 2017 - FY 2019)
Ongoing Program Expenditures				
Beneficial Use Program[1]	$4,500,000	$2,000,000	$2,000,000	$8,500,000
Barrier Island Maintenance Program[1]	$2,922,105	$0	$0	$2,922,105
Vegetative Plantings	$400,000	$400,000	$400,000	$1,200,000
Assistance to Levee Authorities	$0	$1,000,000	$1,000,000	$2,000,000
Restoration Partnerships	$500,000	$1,000,000	$1,000,000	$2,500,000
Project Support	$3,000,000	$3,000,000	$3,000,000	$9,000,000
Total Ongoing Programs Expenditures	**$11,322,105**	**$7,400,000**	**$7,400,000**	**$26,122,105**
Adaptive Management Expenditures				
Project Develoment and Implementation Program	$0	$200,000	$200,000	$400,000
Innovative Programs	$0	$500,000	$500,000	$1,000,000
Non-structural Program Development[1]	$1,200,000	TBD	TBD	$1,200,000
Future Project Development[1]	$1,860,892	$0	$0	$1,860,892
Louisiana Coastal Engineering, Research and Education[2]	$40,000	$300,000	$300,000	$640,000
Event Driven Ad-Hoc Research	$0	$350,000	$350,000	$700,000
Coastal Science Assistantship Program	$325,000	$325,000	$325,000	$975,000
Coastal Innovation Partnership Program	$225,000	$0	$225,000	$450,000
Master Plan Advisory Committees	$330,000	$0	$0	$330,000
Project and Ad-Hoc Advisory Boards	$0	$250,000	$250,000	$500,000
Master Plan Predictive Models[3]	$4,000,000	$1,750,000	$2,500,000	$8,250,000
Small Scale Physical Model[4]	$1,400,000	$500,000	$500,000	$2,400,000
SWAMP Development[2]	$600,000	$600,000	$0	$1,200,000
Fisheries[4]	$2,000,000	$5,800,000	$6,032,000	$13,832,000
SWAMP Implementation[2,4]	$6,257,244	$15,000,000	$15,800,000	$37,057,244
Barrier Island Comprehensive Monitoring[3]	$3,000,000	$2,300,000	$1,000,000	$6,300,000
CRMS-Wetlands[4]	$1,250,000	$1,250,000	$1,250,000	$3,750,000
Flood Protection Inspections/Analysis	$0	$1,800,000	$2,700,000	$4,500,000
Regional Geology and Sediment Management	$0	$500,000	$500,000	$1,000,000
Event Driven Ad-Hoc Monitoring	$0	$300,000	$300,000	$600,000
Data Management	$2,000,000	$2,200,000	$2,200,000	$6,400,000
Monitoring Data Interpretations	$0	$350,000	$350,000	$700,000
Workshop and Conference Development	$125,000	$150,000	$150,000	$425,000
Coastal Education	$500,000	$600,000	$625,000	$1,725,000
Total Adaptive Management	**$25,113,136**	**$35,025,000**	**$36,057,000**	**$96,195,136**

Table 4-3: Programmatic Projected Three-Year Expenditures (FY 2017 - FY 2019)

Program	FY 2017	FY 2018	FY 2019	Program Total (FY 2017 - FY 2019)
TOTAL Programmatic Expenditures	**$36,435,241**	**$42,425,000**	**$43,457,000**	**$122,317,241**
Programmatic Surplus Expenditures (See Table B-6)	**$12,708,344**	**$529,345**	**$0**	**$13,237,689**
Programmatic NRDA Expenditures (See Table B-15)	**$0**	**$10,000,000**	**$10,000,000**	**$20,000,000**
Programmatic NFWF Expenditures (See Table B-15)	**$11,697,244**	**TBD**	**TBD**	**$11,697,244**
Programmatic RESTORE Expenditures (See Table B-15)	**$2,300,000**	**TBD**	**TBD**	**$2,300,000**
Programmatic Operations Expenditures	**$9,729,653**	**$31,895,655**	**$33,457,000**	**$75,082,308**

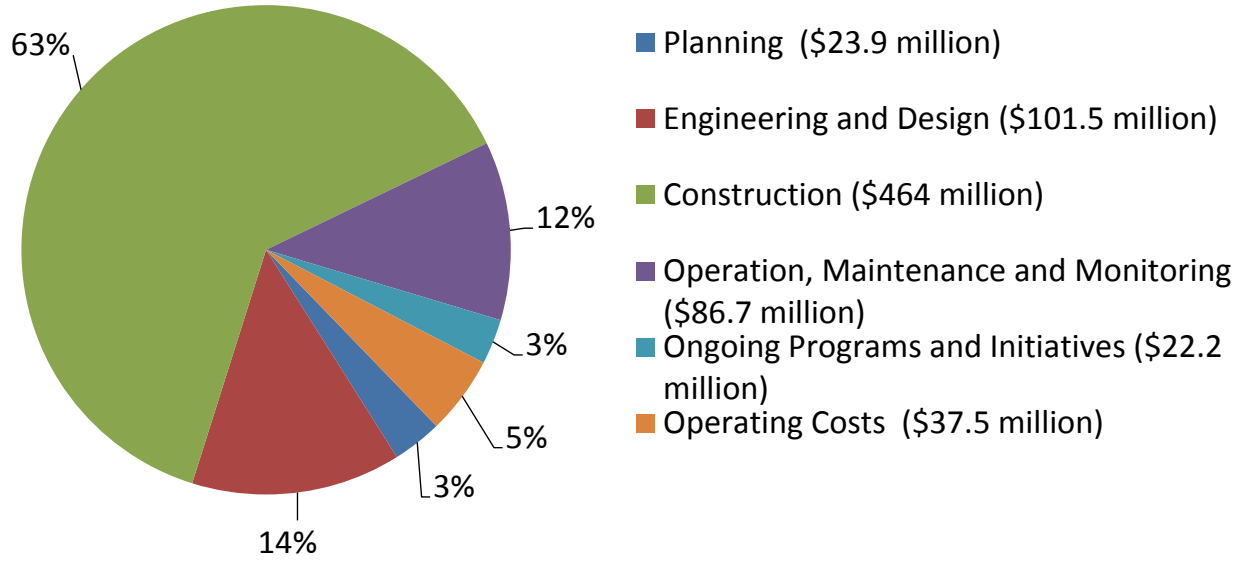
Notes

1. FY 2017 expenditures funded by surplus funds.
2. FY 2017 expenditures funded by RESTORE Adaptive Management Funds.
3. FY 2017 expenditures partially funded by surplus funds.
4. FY 2017 expenditures funded by NFWF Adaptive Management Funds.

Table 4-4: State Protection and Restoration Projected Three-Year Operating Expenditures (FY 2017 - FY 2019)

Program	FY 2017	FY 2018	FY 2019	Program Total (FY 2017 - FY 2019)
CPRA	$23,000,000	$23,920,000	$24,876,800	$71,796,800
OCM	$2,827,134	$2,827,134	$2,827,134	$8,481,402
Office of the Governor - Coastal Activities	$1,397,730	$1,397,730	$1,397,730	$4,193,190
DNR Secretary (OMF Back Office Support)	$411,000	$0	$0	$411,000
Office of the Attorney General	$185,000	$185,000	$185,000	$555,000
Total Operating Costs	**$27,820,864**	**$28,329,864**	**$29,286,664**	**$85,437,392**

Figure 4-1: Projected FY 2017 Expenditures by Project Phase

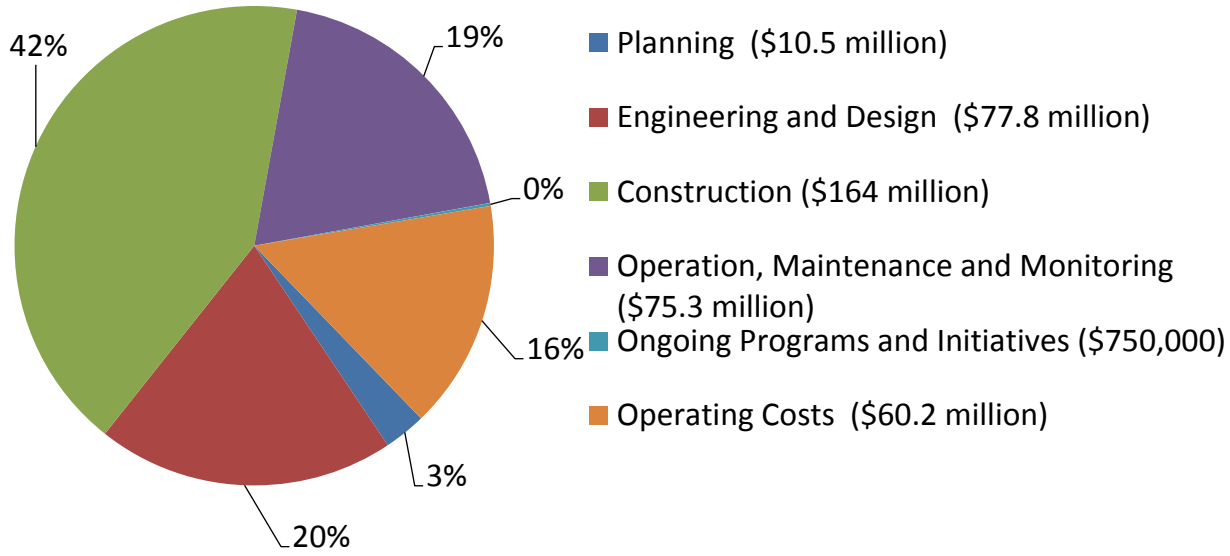


Notes

- Construction includes Beneficial Use ($4 million)
- OM&M includes BIMP ($3.0 million), Repair/Rehabilitation of Projects ($774,523), Marine Debris Removal ($1.6 million), and Isaac Beach and Dune Recovery ($45.8 million)

TOTAL Expenditures
$736 million

Figure 4-2: Projected FY 2018 Expenditures by Project Phase

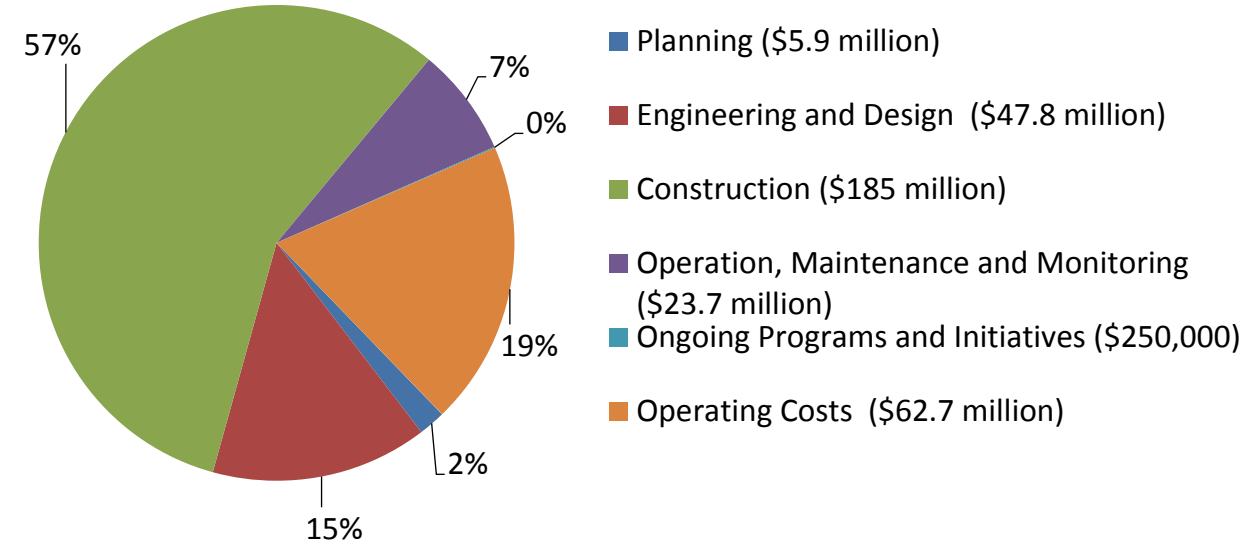


Notes

- Construction includes Beneficial Use ($2 million)
- Engineering and Design and Construction include CWPPRA adjustment for outlying years (see Table 4-2 for explanation)
- OM&M includes Isaac Beach and Dune Recovery ($45.8 million)

TOTAL Expenditures
$389 million

Figure 4-3: 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)

TOTAL Expenditures
$325 million

Section 5
Appendices

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Appendix A
Ongoing Protection and Restoration Project Summaries

ONGOING PROTECTION AND RESTORATION SUMMARIES

CPRA Program	Name	State Project Number	Project Type	Federal Sponsor	Parish	Acres Benefited	Miles of Levee Improved	Construction Completion	Total Budget	Project Description	Planning Unit
BERM	Riverine Sand Mining/Scofield Island Restoration	BA-0040	BH	N/A	PLAQUEMINES	606	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	BH	N/A	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 habitat to Bastian Bay and the surrounding area. Shell Island East was constructed to a length of approximately 2.8 miles, a dune elevation of +8.0 feet NAVD88, a marsh elevation of +2.5 feet NAVD88, and a total fill area of 626 acres.	2
BERM	Emergency Barrier Berms	N/A	OT	N/A	PLAQUEMINES, SAINT BERNARD	1417	N/A	2011	$251,000,000	In response to the *Deepwater Horizon* oil spill of 2010, the State of Louisiana constructed approximately 16 miles of sand berms along several sections of the State's barrier islands both east and west of the Mississippi River. The objective of this project was to provide a barrier to oil and minimize the potential impact of the oil spill to thousands of acres of fragile barrier islands and wetlands in coastal Louisiana. Approximately 16 miles of barrier berm were constructed along existing and relic barrier islands in the Chandeleur Islands (Reach E4- 47,000 LF), Shell Island (Reach W8- 9,000 LF), Pelican Island (Reach W9- 12,700 LF), and Scofield Island (Reach W10- 14,755 LF). Sediment placed in Reaches W8, W9, and W10 was subsequently utilized in barrier island restoration projects BA-110, BA-38, and BA-40, respectively.	1, 2
CDBG	Lafitte Area Levee Repair	BA-0082	HP	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 on the levee for flood fighting activities during Ike and Gustav. This project will provide for a 4 inch lift on approximately a 5 mile stretch of levee.	2
CDBG	Rosethorne Wetland Assimilation Project	BA-0083	HR	HUD	JEFFERSON	334	N/A	Inactive	$1,093,769	The Rosethorne treatment facility currently discharges treated municipal effluent into Bayou Barataria. This project was intended to utilize secondarily treated municipal effluent diverted from the Rosethorne treatment facility, to restore and sustain coastal wetland habitats.	2
CDBG	Bayou Lafourche Fresh Water District - Walter S. Lemann Memorial Pump Station Renovations	BA-0084	FD	HUD	ASCENSION	N/A	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 outages.	2, 3A
CDBG	Madisonville Bulkhead	PO-0087	SP	HUD	ST TAMMANY	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
CDBG	St. Tammany Parish Watershed Management Study	PO-0151	HR	HUD	ST TAMMANY	N/A	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.	1
CDBG	Cut-Off/Pointe Aux Chene Levee	TE-0078	HP	HUD	LAFOURCHE	N/A	8	Pending	$8,468,857	This project will fill in the missing gap that is currently in the existing levee system. The 2.5-mile levee will be constructed along Grand Bayou and tie into the existing levee systems on each end.	3A
CDBG	Franklin Floodgate Sinkable Barge and Pump Station (Phase 1)	TV-0052-1	HP	HUD	ST MARY	N/A	0.2	2012	$4,591,380	This project involves the construction of a sinkable barge structure on Franklin Canal to prevent storm surge from inundating the town of Franklin.	3B
CDBG	Franklin Floodgate Sinkable Barge and Pump Station (Phase 2)	TV-0052-2	HP	HUD	ST MARY	N/A	0.2	2015	$2,148,866	This project will construct a pump station adjacent to the sinkable barge structure on Franklin Canal (constructed in Phase 1 of the project) to prevent storm surge from inundating the town of Franklin.	3B
CDBG	Flood Control Structure at Boston Canal (Deauthorized)	TV-0058	HP	HUD	VERMILION	N/A	N/A	Deauthorized	$5,800,000	This project involves a flood control structure at the intersection of Boston Canal and the GIWW, which could be closed in the event of a hurricane or tropical storm.intersection of Boston Canal and the GIWW, that could be closed in the event of a hurricane or tropical storm.	3B
CDBG	Front Ridge Chenier Terracing/Protection	TV-0060	TE	HUD	VERMILION	40	N/A	Pending	$2,078,162	This project will 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	HP	HUD	VERMILION	N/A	0.1	Pending	$6,343,862	This project involves the implementation of flood control measures in Bayou Tigre.	4
CIAP	Morgan City Industrial Road	AT-0005	OT	USFWS	ST MARY	N/A	N/A	2015	$1,247,000	The project is a road alignment that begins at the First Street floodgate in Morgan City, LA. The alignment will proceed along the unprotected side of the floodwall a distance of 1857 feet. And end at the Port of Morgan City's north gate. The project goal is to reduce the truck traffic through the residential neighborhoods by rerouting the traffic through the proposed realigned road. The preliminary project benefit is to provide more road access to the industrial facilities and the museum through the proposed new road, and decrease the traffic in the residential area.	3B
CIAP	Atchafalaya Long Distance Sediment Pipeline	AT-0015	OT, MC	USFWS	TERREBONNE	N/A	N/A	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 Salvador.	2
CIAP	East Grand Terre	BA-0030	BH	USFWS	PLAQUEMINES	683	N/A	2010	$25,426,247	The project goal is to restore 2.8 miles and 620 acres of barrier shoreline and 450 acres of marsh by dredging 3.3 million cubic yards of offshore material and rebuilding the island. The project was designed under the CWPPRA Program and constructed under the CIAP 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	LAFOURCHE, JEFFERSON,	371	N/A	Pending	$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	BH	USFWS	LAFOURCHE	730	N/A	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	OT	USFWS	LAFOURCHE	N/A	N/A	2010	$33,000,000	This project is located 60 miles south of New Orleans in lower Lafourche Parish between Leeville and Port Fourchon. The project involves the construction of a 5 mile long, two lane elevated highway (two, 12 ft lanes and two, 8 ft shoulders). The Phase IA project connects to the Phase IB and Phase IC projects (in Leeville) by relocating LA 1 on a new alignment.	2
CIAP	Fringe Marsh Repair	BA-0058	MC	USFWS	PLAQUEMINES	300	N/A	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	Mississippi River Water Reintroduction into Bayou Lafourche - BLFWD	BA-0161	FD	USFWS	ASSUMPTION, LAFOURCHE	Not Available	N/A	Pending	$20,000,000	This project is estimated to allow for the continued dredging of a 1,000 cfs channel for an additional 7 - 12 miles of Bayou Lafourche. Overall project features identified for implementation include a receiving intake structure at the point of diversion in the Mississippi River; a pump/siphon system with a combined discharge capacity of 1,000 cfs; a discharge settling pond/sediment basin in Bayou Lafourche at Donaldsonville; modification of weir structures; bank stabilization along Bayou Lafourche; monitoring stations; and dredging of Bayou Lafourche. Increasing the flow down Bayou Lafourche by 1,000 cfs has been modeled to benefit approx. 120,000 - 130,000 acres in the Terrebonne and Barataria Basins through reductions in the salinities and/or nourishment of wetlands with the introduction and distribution of sediment and nutrients from the river.	2, 3A
CIAP	Shoreline Protection Cat Island	BA-0162-CAT	SP	USFWS	PLAQUEMINES	40	N/A	Pending/On Hold	$1,200,000	This project will construct of a series of submerged wave breaks surrounding the existing remnants of the Cat Islands in order to protect the oil damaged shores along the existing island remnants from further wave damage while also collecting sediment in order to naturally rebuild the degraded infrastructure of the islands.	2
CIAP	Shoreline Protection Emergency Restoration	BA-0162-SPER	SP	USFWS	PLAQUEMINES	40	N/A	2013	$355,780	This project consist of a series of submerged wave breaks surrounding shoreline segments in Lower Plaquemines Parish to protect the oil damaged shores along the existing island remnants from further wave damage 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	660	N/A	Inactive	$2,070,559	This project involves the removal of floodgates to allow unimpeded flow of freshwater through the water control structures.	1
CIAP	FIFi Island Restoration	CIAPFIFI	SP	USFWS	JEFFERSON	126	N/A	2003	$751,406	This project provides protection for approximately 100 acres of existing island habitat (Grand Isle & Fifi Island) by the installation of approximately 10,000 linear feet of rock 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	DM	USFWS	CAMERON	300	N/A	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	OT	USFWS	CAMERON	N/A	N/A	2009	$2,039,592	This project involves construction an overlay on Trosclair Road, a parish road that is heavily used by oilfield traffic. The project is approximately 8 miles long and connects State Highway 27/82 from Cameron to State Highway 82 to Oak Grove.	4
CIAP	Bush Canal and Bayou Terrebonne Bank Stabilization	DNR 2513-0311	SP	USFWS	TERREBONNE	4300	N/A	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 goetextile fabric and armored with stone rip-rap. The rebuilt bank-line will help to diminish storm surge as well as reduce saltwater intrusion. This project was funded by the CIAP of 2001.	3A

ONGOING PROTECTION AND RESTORATION SUMMARIES

CPRA Program	Name	State Project Number	Project Type	Federal Sponsor	Parish	Acres Benefited	Miles of Levee Improved	Construction Completion	Total Budget	Project Description	Planning Unit
CIAP	Performance Evaluation - Barataria Land Bridge Biological Monitoring	LA-0012-2	OT	USFWS	JEFFERSON	N/A	N/A	N/A	$432,618	This research study will be conducted on the Barataria Land Bridge Dedicated Dredging Project (BA-36) and will assess the effect of dredged sediment application on soil-vegetation-hydrologic dynamics within deteriorating interior brackish marshes.	2
CIAP	Performance Evaluation - Freshwater Bayou	LA-0012-3	OT	USFWS	VERMILION	N/A	N/A	N/A	$286,029	This study focuses on the expected vertical elevation change of the dredge slurry fill due to immediate and long term settlement and consolidation. Work performed: reviewing previous analyses performed to help improve our ability to predict settlement and consolidation; researching new methods, models, and techniques that could improve how CPRA design teams predict settlement and consolidation. Additionally, field samples and construction monitoring shall be performed to verify the accuracy of the settlement and consolidation analyses performed during project design.	3A
CIAP	CIAP Performance Evaluation - Barrier Island Studies	LA-0012-5	OT	USFWS	JEFFERSON, LAFOURCHE	N/A	N/A	N/A	$558,606	Evaluation of Tidal Pass Morphology Post-Restoration at East Grand Terre and Development of Barrier Island Comprehensive Monitoring Program vegetation sampling protocols.	2
CIAP	CIAP Performance Evaluation - Caminada Moreau Subsidence Study	LA-0012-6	OT	USFWS	JEFFERSON, LAFOURCHE	N/A	N/A	N/A		Research to be conducted on the Caminada 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 Monitoring	LA-0012-7	OT	USFWS	COASTWIDE	N/A	N/A	N/A	$813,512	The Borrow Area Monitoring and Management (BAMM) was initiated to understand the evolution of borrow pits for restoration projects (inshore, nearshore, and offshore) over time, with a particular focus on the infilling (rates and types of sediment) and gradient of the pit-slopes as well as potential dredge impacts. The study involves the collection of geophysical, geotechnical and water quality data from several borrow areas to understand not only the above ovjectives but also the hypoxic conditions vis-à-vis depth of cut of borrow area.	COASTWIDE
CIAP	Coastal Forest Conservation Initiative	LA-0013	PP, OT	USFWS	COASTWIDE	40000	N/A	N/A	$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	N/A	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	SP	USFWS	CAMERON	495	N/A	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	OT	USFWS	EAST BATON ROUGE	N/A	N/A	Pending	$13,520,000	This project involves the construction of a new expanded Small Scale Physical Model (SSPM) capable of modeling smaller flows 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 facilitate the use of the model for public outreach the educational efforts. The project will be a valuable educational and research tool to providing insight and qualitative understanding of critical aspects of the impacts of major diversions of water and sediments, future conditions, and navigation impacts.	1, 2, 3A
CIAP	Violet Diversion	PO-0035-EB	FD	USFWS	ST BERNARD	13200	N/A	N/A	$1,170,982	This project investigates the diversion of freshwater from the Mississippi River into Lake Borgne to freshen Mississippi Sound, Central Wetlands, and Biloxi Marsh areas. The Feasibility Study for this project is being done as part of the MRGO Ecosystem Restoration FS.	1
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 Alligator Point.	1
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 has been protected. Saint Charles 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 critical areas.	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 SWBNO's East Bank Sewer Treatment Plant.	1
CIAP	Central Wetlands - Riverbend	PO-0073-1	HR	USFWS	ST BERNARD	346	N/A	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 allow vegetation to prosper once again in the area, and would also save St. Bernard Parish the cost of running a sewer line from the Oxidation plant to the Munster Plant.	1
CIAP	Central Wetlands - EBSTP to A2	PO-0073-2	HR	USFWS	ST BERNARD, ORLEANS	473	N/A	Pending	$4,500,000	This project involves the introduction of freshwater from the SWBNO's East Bank Sewer Treatment Plant to combat salt water intrusion from MRGO and thus attempt to replenish the once thriving Central Wetlands. The project involves piping treated effluent from the EBSTP to St. Bernard parish and vegetative plantings to nourish and sustain marsh.	1
CIAP	Central Wetlands Demonstration Expansion	PO-0073-3	HR	USFWS	ORLEANS	17.2	N/A	2016	$4,500,000	The Central Wetlands Demonstration Expansion project would restore up to 17.2 acres of critical wetlands in the area designated A-1 using wetlands assimilation of treated wastewater effluent and/or beneficial use of ash/biosolids from the East Bank Wastewater Treatment Plant, other sediment from SWBNO operations. Once the cell has been completed, the intent is to promote an ecological diversity with indigenous planting from cypress/tupelo trees to floating marsh islands. Marsh islands shall encourage the development of habitat for wetlands birds and fish.	1
CIAP	Living Shoreline	PO-0148	SP	USFWS	ST BERNARD, JEFFERSON, ORLEANS	5340	N/A	Pending	$26,500,000	The primary project involves the construction of bioengineered oyster reefs along coastal fringe marsh in St. Bernard Parish. The installation will take place from Eloi 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	N/A	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 piling the spoil on one side of the borrow area. An additional $391,763 was contributed from the CIAP of 2001.	3B
CIAP	GIWW Bank Restoration of Critical Areas of Terrebonne (CIAP)	TE-0043-EB	SP	USFWS	TERREBONNE	1,180	N/A	2011	$7,274,676	The project objective is to restore critical lengths of deteriorated channel banks and stabilize/armor selected critical lengths of deteriorated channel banks with hard shoreline stabilization materials.	3B
CIAP	Falgout Canal Freshwater Enhancement	TE-0063	FD	USFWS	TERREBONNE	5000	N/A	Pending	$9,351,074	This project involves construction/modification of an inlet structure at a site located on the HNC north of Falgout Canal, modeling of the basin, along with channel improvements, as necessary, to improve efficiency of freshwater flow within the basin area. In addition, existing structures along Falgout Canal would be improved and/or replaced to facilitate operation and maintenance concerns, and facilitate movement of freshwater, nutrients, and sediment to the hydrologic unit south of Falgout Canal.	3A
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 Freshwater Bayou Canal and to protect the interior wetlands from saltwater intrusion, increased tidal exchange and wake-induced erosion. This will be achieved by constructing a rock dike along critical areas of the eastern and western banks of the canal.	3B
CIAP	Port of Iberia Bridge Replacement - Port Road over Commercial Canal	TV-0028	OT	USFWS	IBERIA	N/A	N/A	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 toll on the ports bridges and roadways.	3B
CIAP	Port of Iberia Bridge Replacement - David Dubois Road over Commercial Canal	TV-0030	OT	USFWS	IBERIA	N/A	N/A	2013	$1,058,013	This project involves the replacement of the bridge on David Dubois 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 takes a major toll on the port's bridges and roadways.	3B
CIAP	Acadiana Regional Airport Street Improvements - Admiral Doyle Drive	TV-0031	OT	USFWS	IBERIA	N/A	N/A	Pending	$1,114,942	This project involves patching and overlaying 5,310 feet (about 1 mile) of Admiral Doyle Road around the Acadiana Regional Airport in Iberia Parish from its intersection with LA 3212 to the end of the four lane section. The project provides improved access to both the airport and the Port of Iberia, both of which support OCS facilities and commerce.	3B

ONGOING PROTECTION AND RESTORATION SUMMARIES

CPRA Program	Name	State Project Number	Project Type	Federal Sponsor	Parish	Acres Benefited	Miles of Levee Improved	Construction Completion	Total Budget	Project Description	Planning Unit
CWPPRA	Atchafalaya Sediment Delivery	AT-0002	SD	NMFS	ST MARY	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 delta lobes.	3B
CWPPRA	Big Island Mining	AT-0003	DM	NMFS	ST MARY	1560	N/A	1998	$7,077,404	The project includes creating a new western delta lobe behind Big Island to enhance the accretion of land beyond the west bank of the Atchafalaya River. Construction included dredging of a main stem and five branch channels designed to mimic natural channel bifurcations. Dredged material was strategically placed at elevations mimicking natural delta lobes. Re-opening the channels is allowing continued natural sediment transport and marsh growth.	3B
CWPPRA	Castille Pass Channel Sediment Delivery (Deauthorized)	AT-0004	SD	NMFS	ST MARY	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.	3B
CWPPRA	GIWW (Gulf Intracoastal Waterway) to Clovelly Hydrologic Restoration	BA-0002	HR	NRCS	LAFOURCHE	175	N/A	2000	$12,896,358	The project includes the construction of features (including canal plugs, rock weirs, fixed crest weirs with boat bays, one variable crest weir, and the rebuilding of low overflow banks that have eroded away) in eastern Lafourche Parish to restore the area to the hydrologic conditions that prevailed historically.	2
CWPPRA	Naomi Outfall Management	BA-0003-C	OM	NRCS	JEFFERSON	634	N/A	2002	$2,285,972	The project manages the outfall of the existing eight siphons by controlling the movement of the diverted waters. The siphons divert sediment-laden water from the Mississippi River into the west bank wetlands to retard saltwater intrusion and enhance wetland productivity.	2
CWPPRA	West Pointe a la Hache Outfall Management (Deauthorized)	BA-0004-C	HR	NRCS	PLAQUEMINES	646	N/A	Deauthorized	$6,620,516	The project goal is to optimize use of fresh water and sediment supplied by existing siphon 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	N/A	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 I of the project was constructed to demonstrate the effectiveness of four separate types of segmented breakwaters in a poor soil environment. Phase II of the project included the installation of 8,000 feet of continuous rock structure along the western section of the lake.	2
CWPPRA	Fourchon Hydrologic Restoration (Deauthorized)	BA-0018	HR		LAFOURCHE	N/A	N/A	Deauthorized	$7,703	The goal of this project was to restore tidal exchange to 2,400 acres of impounded wetlands. The project was officially deauthorized by the CWPPRA Task Force in July of 1994 at the request of the landowner.	2
CWPPRA	Barataria Bay Waterway Wetland Restoration	BA-0019	MC	USACE	JEFFERSON	510	N/A	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 hydrologic conditions of the area and reduce shoreline erosion. The goal was partly accomplished through constructing a series of water control structures. Construction unit 4 consists of 4,180 lf of rock rip rap revetment, 15,110 lf of concrete sheetpile wall, plugs and marsh 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 deteriorated intermediate-to-brackish marsh located between Lake Salvador and Little Lake by using dredged material to re-establish the shoreline. Due to an unstable and rapidly eroding site, the project was deemed unfeasible and was officially deauthorized by the CWPPRA Task Force in January of 1998.	2
CWPPRA	Bayou L'Ours Ridge Hydrologic Restoration (Deauthorized)	BA-0022	HR	NRCS	LAFOURCHE	737	N/A	Deauthorized	$371,232	This project was proposed to restore natural hydrologic flow to the marsh by reinforcing breached areas of the Bayou L'Ours Ridge through a series of canal closures and two water control structures. The project was officially deauthorized by the CWPPRA Task Force in April 2003 because of landrights 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 dike was constructed along 9,400 linear feet of the west bank of the Barataria Bay Waterway.	2
CWPPRA	Myrtle Grove Siphon (Deauthorized)	BA-0024	FD	NMFS	PLAQUEMINES	N/A	N/A	Deauthorized	$481,802	The goal of the project is to reduce saltwater intrusion and to nourish existing marsh. This will be accomplished by diverting water through a siphon from the Mississippi River to adjacent wetlands. This project was officially deauthorized by the CWPPRA Task Force in October 2007 because a larger diversion was authorized at the same location (see BA-33).	2
CWPPRA	Bayou Lafourche Siphon (Deauthorized)	BA-0025-A	FD	EPA	LAFOURCHE	428	N/A	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 siphon 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	ASCENSION, 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 Terrebonne basins through reintroduction of sediment and nutrient laden Mississippi River water via Bayou Lafourche. This project was orginally authorized on the 5th PPL as BA-25. This project was officially deauthorized by the Breaux Act Task Force in October 2007; however, engineering and design will be continued by the CPRA using state funds.	2
CWPPRA	Barataria Bay Waterway East Side Shoreline Protection	BA-0026	SP	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 excessive tidal action and saltwater intrusion. 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 rock armor.	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	N/A	1999, 2008, Pending	$46,231,597	The project tested sections of different shoreline protection types, such as, concrete panel wall, rock and light rock. These projects have constructed over 41,000 feet of shoreline protection.	2
CWPPRA	Barataria Basin Landbridge Shoreline Protection Phase 4	BA-0027-D	SP	NRCS	JEFFERSON	589	N/A	2006	$17,709,216	This project consist sof 31,500 feet of foreshore rock dike with a lightweight aggregate core or concrete sheetpile and will incorporate "fish 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	VP	NMFS	JEFFERSON	127	N/A	2001	$526,314	This project involved the installation of vegetative plantings on previously constructed marsh and dune platform.	2
CWPPRA	LA Highway 1 Marsh Creation (Deauthorized)	BA-0029	MC	EPA	LAFOURCHE	146	N/A	Deauthorized	$250,257	The objective of this project was to create marsh habitat in a large open water area adjacent to Louisiana Highway 1 using dredged material from two proposed borrow areas. This project was officially deauthorized by the CWPPRA Task Force in February of 2005 because it was determined to be infeasible.	2
CWPPRA	East/West Grand Terre Islands Restoration (Transferred)	BA-0030	MC	NMFS	JEFFERSON	403	N/A	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 dune and marsh habitat on East Grand Terre Island. This project was constructed using CIAP 2007 funds.	2
CWPPRA	Delta Building Diversion at Myrtle Grove (Transferred)	BA-0033	SD	USACE	JEFFERSON, PLAQUEMINES	8891	N/A	Transferred	$327,422	The objective of this project is to divert Mississippi River water and sediment for the creation of new emergent wetlands. The project will involve: installation of gated box culverts on the west bank of the Mississippi River in the vicinity of Myrtle Grove; dedicated dredging from the Mississippi River to create marsh in the vicinity of Bayou Dupont, the Barataria Bay Waterway, and the Wilkinson Canal; or a combination of these actions. This project was transferred to the LCA Program.	2
CWPPRA	Mississippi River Reintroduction Into Northwest Barataria Basin (Transferred)	BA-0034	FD	EPA	ST JOHN THE BAPTIST, ST JAMES, LAFOURCHE	5134	N/A	Transferred	$17,098,769	The goal of this project is to restore the natural hydrologic regime and add nutrients to adjacent swamp areas. The project would utilize a freshwater diversion/siphon from the Mississippi River to northwest Barataria Basin wetlands with gapping of spoil banks and placement of culverts under LA Highway 20. The scope of the project was changed and the revised project was re-numbered BA-34-2.	2
CWPPRA	Hydrologic Restoration and Vegetative Plantins in the Lac des Allemands Swamp	BA-0034-2	HR, VP	USFWS	ST JOHN THE BAPTIST, ST JAMES, LAFOURCHE	5134	N/A	Pending	$14,355,710	The goal of this project is to restore the natural hydrologic regime and add nutrients to adjacent swamp areas via hydrologic restoration. Project features include the implementation of spoil bank gaps, culverts, and other hydrologic improvements for the impounded swamps to reverse the impoundment effects that are currently serious impediments to swamp health	2
CWPPRA	Pass Chaland to Grand Bayou Pass	BA-0035	BH	NMFS	PLAQUEMINES	359	N/A	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 5,368,000 cubic yards of material was placed in two contained marsh creation areas to construct approximately 1,211 acres of intertidal marsh at a final elevation of +2.5' NAVD 88. Approximately 3,901,000 cubic yards of material was placed in adjoining fill areas to nourish approximately 1,578 acres of marsh.	2
CWPPRA	Little Lake Shoreline Protection/Dedicated Dredging Near Round Lake	BA-0037	MM, SP	NMFS	LAFOURCHE	713	N/A	2007	$44,931,412	This project is designed to protect area wetlands, which currently experience high rates of shoreline erosion. This project protects approximately 21,000 feet of Little Lake shoreline, create 488 acres of intertidal wetlands, and nourish an additional 532 acres of fragmented, subsiding marsh.	2

ONGOING PROTECTION AND RESTORATION SUMMARIES

CPRA Program	Name	State Project Number	Project Type	Federal Sponsor	Parish	Acres Benefited	Miles of Levee Improved	Construction Completion	Total Budget	Project Description	Planning Unit
CWPPRA	Pelican Island and Pass La Mer to Chaland Pass Restoration	BA-0038	BH, VP	NMFS	PLAQUEMINES	1117	N/A	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 (BA-32). Construction of the Pass La Mer to Chaland Pass Restoration segment was completed in 2007.	2
CWPPRA	Mississippi River Sediment Delivery System - Bayou Dupont	BA-0039	MC	EPA	JEFFERSON, PLAQUEMINES	577	N/A	2010	$31,631,908	The goal of this project is to create/restore 493 acres of brackish marsh by delivering via pipeline, dredged material from the Mississippi River to an adjacent area within the Barataria Basin, and planting marsh vegetation.	2
CWPPRA	Rivering Sand Mining/Scofield Island Restoration (Transferred)	BA-0040	BH	NMFS	PLAQUEMINES	234	N/A	Transferred	$40,851,272	The goals of this project are to repair breaches and tidal inlets int eh shoreline, reinforce the wxisting shoreline with sand, and increase the island width with back barrier marsh creation to increase longevity. This project was transferred to the Berm to Barrier Program for construction.	2
CWPPRA	South Shore of the Pen Shoreline Protection and Marsh Creation	BA-0041	SP, MC	NRCS	JEFFERSON	211	N/A	2012	$21,639,575	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 shore of The Pen and Bayou Dupont. Dedicated dredging was used to create approximately 74 acres of marsh, and nourish an additional 107 acres of marsh, within the triangular area bounded by the south shore of The Pen, the Barataria Bay Waterway (Dupre Cut) and the Creole Gas Pipeline Canal.	2
CWPPRA	Lake Hermitage Marsh Creation	BA-0042	TE, SP, MC	USFWS	PLAQUEMINES	438	N/A	2015	$40,538,484	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.	2
CWPPRA	West Pointe a la Hache Marsh Creation	BA-0047	MC	NRCS	PLAQUEMINES	203	N/A	2015, Transferred	$15,671,708	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.	2
CWPPRA	Bayou Dupont Marsh and Ridge Creation Project	BA-0048	MC	NMFS	JEFFERSON	317	N/A	Pending	$38,324,646	This marsh and ridge creation project will nourish approximately 118 acres of marsh and create 15 acres of maritime ridge by long distance pumping of Mississippi River sediment.	2
CWPPRA	Grand Liard Marsh and Ridge Restoration	BA-0068	BH	NMFS	PLAQUEMINES	502	N/A	2015	$41,872,785	This project will create 328 about acres of marsh, nourish about 140 acres of marsh and build about 20,000 lf of ridge.	2
CWPPRA	Cheniere Ronquille Barrier Island Restoration (Transferred)	BA-0076	BH	NMFS	PLAQUEMINES	398	N/A	Transferred	$51,145,769	The project goal is to maintain shoreline integrity and create and restore saline marsh on Chenier Ronquille. The project involves dedicated dredging from nearshore Gulf deposits to creat saline marsh in open water areas and nourish existing marshes and barrier shoreline in project area. Intensive dune plantings in the project area were also proposed. This project was transferred to NRDA for construction.	2
CWPPRA	Northwest Turtle Bay Marsh Creation	BA-0125	MC	USFWS	JEFFERSON	407	N/A	Pending	$24,448,757	This project involves the creation of approximately 423 acres and nourish approximately 337 acres of marsh using sediment dredged from Turtle Bay or Little Lake. Existing canal spoil banks, emergent marsh, and limited segments of containment dikes will be used to guide the distribution of the dredged material. Containment dikes will be degraded as necessary to reestablish hydrologic connectivity with adjacent wetlands.	2
CWPPRA	Bayou Dupont Sediment Delivery- Marsh Creation 3	BA-0164	MC	EPA	PLAQUEMINES, JEFFERSON	302	N/A	Pending	$39,529,163	This project involves dedicated dredging from the Mississippi River to create and nourish 415 acres of marsh.	1
CWPPRA	Caminada Headlands Back Barrier Marsh Creation	BA-0171	MC	EPA	LAFOURCHE	430	N/A	Pending	$32,284,094	This project involves the creation of approximately 300 acres of back barrier intertidal marsh and nourishment of 130 acres of emergent marsh behind 3.5 miles of the Caminada beach using material dredged from the Gulf of Mexico.	2
CWPPRA	Bayou Grande Cheniere Marsh and Ridge Restoration	BA-0173	MC	USFWS	PLAQUEMINES	264	N/A	Pending	$30,311,402	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 eastern side of the Bayou Grande Cheniere ridge, as well as create 12 acres of forested coastal ridge habitat.	2
CWPPRA	Caminada Headlands Back Barrier Marsh Creation Increment 2	BA-0193	BH	EPA	JEFFERSON, LAFOURCHE	444	N/A	Pending	$25,977,605	In addition to having one of the highest shoreline retreat rates in Louisiana, Caminada Headland has suffered significant shoreline losses due to recent hurricanes. As the beach and dune continue to mirgrate landward, overwashed sediment is lost into newly formed open water areas. Caminada Headland deterioration threatens thousands of acres of wetlands and critical infrastructure to the north, including Port Fourchon, LA Highwy 1, and the lower Lafourche levee system. This project will create and/or nourish 444 acres of back barrier intertidal marsh and create a platform upon which the beach and dune can migrate. This project will work synergistically with existing Caminada Headland dune and back barrier marsh projects	2
CWPPRA	East Leeville Marsh Creation and Nourishment	BA-0194	MC	NOAA	LAFOURCHE	482	N/A	Pending	$34,880,876	The project goal is to create approximately 358 acres and nourish 124 acres of saline marsh east of Leeville.	2
CWPPRA	Barataria Bay Rim Marsh Creation and Nourishment	BA-0195	MC	NRCS	PLAQUEMINES, JEFFERSON	517	N/A	Pending	$23,545,026	The goal of the project is to create approximately 251 acres of marsh and nourish approximately 266 acres of marsh (517 acres total) with dredged material from Barataria Bay.	2
CWPPRA	Caernarvon Diversion Outfall Management	BS-0003-A	OM	NRCS	PLAQUEMINES	802	N/A	2002	$4,536,000	The primary objective of this project is to enhance marsh by increasing the utilization of freshwater, nutrients, and sediments provided by the Mississippi River through the Caernarvon Freshwater Diversion Structure.	1
CWPPRA	White's Ditch Outfall Management (Deauthorized)	BS-0004-A	OM	NRCS	PLAQUEMINES	N/A	N/A	Deauthorized	$32,862	This project was designed to direct the flow of Mississippi River nutrients and sediment into the deteriorating wetlands in the Breton Sound Basin that are not directly benefited by the Caernarvon Freshwater Diversion project. Because of the failure to secure landrights, 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.	1
CWPPRA	Grand Bay Crevasse (Deauthorized)	BS-0007	SD	USACE	PLAQUEMINES	N/A	N/A	Deauthorized	$65,747	Project goals included construction of a rock-lined opening through the rocks at the head of the Jurjevich Canal in order to establish a pathway for freshwater and sediment into Grand Bay and the adjacent marshes to create, restore, and enhance wetlands in the area. The project was officially deauthorized by the CWPPRA Task Force in July of 1998 because of landrights issues.	1
CWPPRA	Upper Oak River Freshwater Siphon (Deauthorized) Phase 1	BS-0009	FD	NRCS	PLAQUEMINES	N/A	N/A	Deauthorized	$56,476	The primary goal of this project was to reverse the trend of interior marsh deterioration in the project area due to saltwater intrusion through installation of a freshwater siphon 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 landrights issues.	1
CWPPRA	Delta Building Diversion North of Fort St. Philip (Deauthorized)	BS-0010	SD	USACE	PLAQUEMINES	543	N/A	Deauthorized	$1,178,640	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.	1
CWPPRA	Delta Management at Fort St. Philip	BS-0011	SNT	USFWS	PLAQUEMINES	267	N/A	2006	$3,199,948	The objective of the project is to enhance the delta-building process occurring due to the crevasse at Fort St. Philip. Six artificial crevasses were constructed to divert freshwater and sediment into areas currently restricted by spoil banks or natural ridges and linear vegetated terraces were constructed to enhance sediment retention and reduce wave energy in one of the receiving bays.	1
CWPPRA	White Ditch Resurrection and Outfall Management (Deauthorized)	BS-0012	OM, FD	NRCS	PLAQUEMINES	189	N/A	Deauthorized	$1,595,677	The goal of this project was to promote utilization of freshwater, sediments, and nutrients from Mississippi River by renewing operation of existing siphon and adding another. The project was deauthorized by the CWPPRA Task Force in 2013.	1
CWPPRA	Bayou Lamoque Freshwater Diversion (Transferred)	BS-0013	FD	EPA	PLAQUEMINES	620	N/A	Transferred	$9,509	The goal of this project was to create approximately 620 acres of new marsh, increase the percent cover of aquatic vegetation, increase the area of shallow open water habitat, and decrease mean salinity in the project area.This CWPPRA project was transferred to the CIAP Program.	1
CWPPRA	Bohemia Mississippi River Reintroduction Project (Deauthorized)	BS-0015	FD	EPA	PLAQUEMINES	640	N/A	Deauthorized	$556,703	The goal of the project was to reintroduce Mississippi River water into adjacent wetlands through an uncontrolled diversion with a capacity of approximately 10,000 cfs, restoring natural deltaic growth and habitats. The project was deauthorized by the CWPPRA Task Force in 2013.	1
CWPPRA	South Lake Lery Shoreline and Marsh Restoration	BS-0016	VP, MC	USFWS	PLAQUEMINES	652	N/A	Pending	$33,716,987	This project involves dredging sediment to create 396 acres of marsh and restore approximately 32,000 feet of the southern Lake Lery shoreline.	1
CWPPRA	Bertrandville Siphon (Deauthorized)	BS-0018	FD	EPA	PLAQUEMINES	1613	N/A	Deauthorized	$22,578,208	The goal of the project was to create and sustain marsh through a MS River reintroduction (2,000 cfs maximum siphon) into the open water near Bertrandville. The project was deauthorized by the CWPPRA Task Force in 2013.	1
CWPPRA	Terracing and Marsh Creation South of Big Mar	BS-0024	MC, TE	USFWS	PLAQUEMINES	383	N/A	Pending	$22,774,368	This project involves the construction of approximately 65,000 linear feet of terraces (37 acres) with in-situ material to reduce fetch and turbidity and capture suspended sediment. Sediments will be hydraulically dredged from Lake Lery and pumped via pipeline to create and restore approximately 334 acres of marsh in the project area.	2
CWPPRA	Cameron-Creole Maintenance	CS-0004-A	HR	NRCS	CAMERON	2602	N/A	1997, 2011	$4,644,371	The project area falls within the Cameron-Creole watershed management area, which has been adversely impacted by saltwater intrusion and loss of sediments due to channelization and water diversion of the Calcasieu River. The project providse maintenance for the existing 19 miles of levee and five major structures which make up the Cameron-Creole Watershed Project.	4
CWPPRA	Brown Lake Hydrologic Restoration (Deauthorized)	CS-0009	MM	NRCS	CALCASIEU, CAMERON	916	N/A	Deauthorized	$1,097,828	The project investigated the restoration of the natural hydrology of the Brown Lake area. The project was deauthorized by the CWPPRA Task Force.	4

ONGOING PROTECTION AND RESTORATION SUMMARIES

CPRA Program	Name	State Project Number	Project Type	Federal Sponsor	Parish	Acres Benefited	Miles of Levee Improved	Construction Completion	Total Budget	Project Description	Planning Unit
CWPPRA	Sweet Lake/Willow Lake Hydrologic Restoration	CS-0011-B	SP	NRCS	CAMERON	247	N/A	2002	$3,929,152	The project objectives are to re-establish the shoreline (hydrologic boundary) between Sweet Lake and the Gulf Intracoastal Waterway (GIWW), to reduce lake turbidity and tidal exchange, and to halt erosion and trap sediment needed to rebuild marsh along the northern and northwestern shorelines of Sweet Lake. This project includes construction of rock embankments on the GIWW to close off the lakes, vegetation plantings to reduce erosion, and construction of earthen terraces combined with vegetation plantings in open water areas to promote revegetation.	4
CWPPRA	Cameron Creole Plugs	CS-0017	HR	USFWS	CAMERON	865	N/A	1997	$418,539	The project goal is to restore historic water circulation patterns within the Cameron-Creole Watershed. This objective will be accomplished by slowing the rapid movement of saline waters that enter the watershed from Calcasieu Lake. The project consisted of the installation of two sheetpile plugs in the lakeshore borrow canal.	4
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 deterioration associated with the anticipated failure of the existing west levee. The original design was to reconstruct 5.5 miles of eroded levee. The project was redesigned to include 1,000 feet of levee reconstruction and 5.5 miles of rock armor. Vegetation plantings were used to reduce erosion from boat traffic.	4
CWPPRA	West Hackberry Vegetative Planting Demonstration	CS-0019	VP	NRCS	CAMERON	N/A	N/A	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 California bullrush (Schoenoplectus californicus). In addition, wave-stilling hay bale fences were utilized to protect the vegetation plantings.	4
CWPPRA	East Mud Lake Marsh Management	CS-0020	MM	NRCS	CAMERON	1520	N/A	1996	$6,036,741	The project involves the creation of a hydrologic regime conducive to restoration, protection, and enhancement of the Mud Lake area using various types of water control structures and vegetative plantings. Structural components include culverts with flap gates, two variable crest weirs, three earthen plugs, overflow bank and repair of existing levee.	4
CWPPRA	Highway 384 Hydrologic Restoration	CS-0021	MM	NRCS	CAMERON	650	N/A	2000	$1,586,228	The project purpose is to restore the natural hydrology of the project area and eliminate undesirably high salinities and severe water fluctuations, tremendously reduce the potential for future marsh losses.	4
CWPPRA	Clear Marais Bank Protection	CS-0022	SP	USACE	CALCASIEU	1067	N/A	1997	$3,696,088	The project is located north of the Gulf Intracoastal Waterway (GIWW) approximately 10 miles northwest of Hackberry in Calcasieu Parish, Louisiana. The 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 of the project area.	4
CWPPRA	Replace Sabine Refuge Water Control Structures at Headquarters Canal, West Cove Canal, and Hog Island Gully	CS-0023	MM	USFWS	CAMERON	953	N/A	2001	$5,709,299	This project involved the replacement of existing structures at Sabine National Wildlife Refuge with structures that have substantially greater discharge potential and greater management flexibility.	4
CWPPRA	Perry Ridge Shore Protection	CS-0024	SP	NRCS	CALCASIEU	1203	N/A	1999	$2,289,090	The project reduces tidal scour, wave action from boats, and other excessive energy impacts on interior marshes and the possibility of saltwater intrusion by placing rip-rap along low areas on the northern spoil bank of the GIWW from Perry Ridge to Vinton Drainage Canal.	4
CWPPRA	Plowed Terraces Demonstration	CS-0025	SNT	NRCS	CAMERON	N/A	N/A	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 water areas. Thirty-eight earthen terraces served as wave-stilling, sediment-trapping structures and provided a medium base for the establishment of emergent vegetation.	4
CWPPRA	Compost Demonstration (Deauthorized)	CS-0026	MC	EPA	CAMERON	N/A	N/A	Deauthorized	$255,390	This project was authorized to evaluate the effectiveness of using tree trimmings as compostable material, using compost amended material in providing a growth medium for emergent vegetation, and determining settlement rates of the compost amended materials and tree trimmings. The project was officially deauthorized by the CWPPRA Task Force in January 2002.	4
CWPPRA	Black Bayou Hydrologic Restoration	CS-0027	HR	NMFS	CALCASIEU, CAMERON	3594	N/A	2003	$6,170,284	The project goals are to reduce wetland loss resulting from hydrologic changes including reduced freshwater inflow, increased magnitude and duration of tidal fluctuations, increased salinities, higher water levels, and excessive water exchange. This project included the construction of spoil banks, weirs, plugs, and culverts designed to allow freshwater from the Gulf Intracoastal Waterway (GIWW) into the wetlands and to create a hydrologic head that increases freshwater retention time and reduces saltwater intrusion.	4
CWPPRA	Sabine Refuge Marsh Creation, Cycles 4-5	CS-0028-4-5	MC	USACE	CAMERON	460	N/A	2015	$11,838,649	The Sabine Refuge Marsh Creation Cycles 4-5 Project consists of the placement of dredged material from routine maintenance of the Calcasieu River Ship Channel via temporary pipeline into a marsh creation site within the Sabine National Wildlife 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 Channel via temporary pipeline into a marsh creation site within the Sabine National Wildlife Refuge.	4
CWPPRA	Black Bayou Culverts Hydrologic Restoration	CS-0029	HR	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 gates in the embankment of Highway 384 in Cameron Parish.	4
CWPPRA	GIWW - Perry Ridge West Bank Stabilization	CS-0030	SP	NRCS	CALCASIEU	1132	N/A	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	SP	NRCS	CAMERON	330	N/A	2003	$14,130,233	The purpose of the project is to protect existing coastal wetlands by restoring and maintaining the integrity and functionality of the remaining chenier/beach ridge. This objective was accomplished through beach renourishment, installation of sand fencing, vegetation plantings, and monitoring of the shoreline response. This project was originally authorized on the 9th PPL 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 objectives 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, terraces, vegetation plantings, and water control structures to reduce tidal scour, shoreline erosion, turbidity, and salinities. However, design of the water control structures has been discontinued and the remaining construction funds was used to build additional terraces.	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 Kelso Bayou and provide direct protection to Louisiana State Highway 27, the region's only northward hurricane evacuation route. The project has been transferred to the Chenier Plain 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 from Calcasieu Lake to benefit fish and wildlife resources in the Cameron Prairie National Wildlife Refuge and adjacent brackish marshes of the Calcasieu Lake estuary.	4
CWPPRA	Oyster Bayou Marsh Creation and Terracing	CS-0059	MC, SNT	NMFS	CAMERON	489	N/A	Pending	$31,031,354	The project consists of creating/nourishing marsh and associated edge habitat and creating terraces in order to reduce wave/wake erosion.	4
CWPPRA	Cameron Meadows Marsh Creation and Terracing	CS-0066	MC, TE	NMFS	CAMERON	401	N/A	Pending	$28,935,820	This project involves the construction of 334 acres of marsh and the reestablishment of Old North Bayou via dredged material from the Gulf of Mexico. The project also involves the construction of 35,000 linear feet of terraces (18 acres) to reduce wind generated wave fetch.	4
CWPPRA	No Name Bayou Marsh Creation and Nourishment	CS-0078	MC	NMFS	CAMERON	497	N/A	Pending	$28,090,745	The project goal is to create and/or nourish approximately 533 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	MC	NOAA	CALCASIEU	661	N/A	Pending	$37,542,910	The primary goals of the project are to create and nourish approximately 661 acres of saline marsh. Sediment would be mined from the offshore disposal area used for CS-59 and placed in the project area to create approximately 476 acres and nourish approximately 185 acres of saline marsh. Half of the created acres will be planted with smooth cordgrass vegetation.	4
CWPPRA	Nutria Harvest for Wetland Restoration Demonstration	LA-0003-A	OT	USFWS	COASTWIDE	N/A	N/A	2003	$806,220	This project enables the Louisiana Department of Wildlife and Fisheries to establish an economic incentive program to trap and control nutria, which are contributing to coastal wetland loss, by promoting the consumption of nutria meat.	COASTWIDE
CWPPRA	Coastwide Nutria Control Program	LA-0003-B	MM	NRCS	COASTWIDE	14963	N/A	N/A	$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	OT	NRCS	TERREBONNE	N/A	N/A	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.	3A
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 Shoreline Protection (ME-22) project.	4
CWPPRA	Bioengineered Oyster Reef Demonstration	LA-0008	SP	NMFS	CAMERON	4.5	N/A	2012	$2,316,692	This project is intended to evaluate the Oysterbreak structure to prevent beach erosion and increase habitat diversity associated with natural oyster reefs.	4

ONGOING PROTECTION AND RESTORATION SUMMARIES

CPRA Program	Name	State Project Number	Project Type	Federal Sponsor	Parish	Acres Benefited	Miles of Levee Improved	Construction Completion	Total Budget	Project Description	Planning Unit
CWPPRA	Sediment Containment System for Marsh Creation Demonstration	LA-0009	MC	NRCS	ST CHARLES	N/A	N/A	2013	$2,323,073	This demonstration project utilizes an uncoventional sediment containment system for marsh creation.	3A
CWPPRA	Non-rock Alternatives to Shoreline Protection Demo	LA-0016	SP	NRCS	IBERIA, JEFFERSON, LAFOURCHE	N/A	N/A	2015	$6,108,699	Project goals are to demonstrate different alternatives to rock shoreline protection methods by testing several different products along highly erosive shorelines in areas that are not conducive to construction with rock.	2, 3B
CWPPRA	Coastwide Planting	LA-0039	VP	NRCS	COASTWIDE	779	N/A	N/A	$12,689,725	The goals of this project are to facilitate a consistent and responsive planting effort in coastal Louisiana that is flexible enough to routinely plant on a large scale and be able to rapidly respond to “hot spots” following storms or other damaging events.	COASTWIDE
CWPPRA	Shoreline Protection, Preservation, and Restoration (SPPR) Panel	LA-0280	SP	NOAA	COASTWIDE	N/A	N/A	N/A	$2,669,829	The proposed demonstration project would stabilize existing shoreline features and attenuate shoreline retreat and potentially enhance interior marshes and an accretion platform behind the structure. The goal of this project is to provide a cost effective construction alternative to rip rap for shoreline protection.	COASTWIDE
CWPPRA	Freshwater Bayou Wetland Protection	ME-0004	SP	NRCS	VERMILION	14381	N/A	1998	$9,871,230	The project features include the installation of 10,000 linear feet of rock breakwater (rip-rap) along the west shoreline of Freshwater Bayou Canal, where needed, to protect this shoreline from further erosion; and the installation of gated water control structures on the Acadiana Marina Canal to reduce ponding in the area known as the Freshwater Bayou Wetlands. The project has been extended for another 20 years.	4
CWPPRA	Dewitt-Rollover Vegetative Plantings Demonstration (Deauthorized)	ME-0008	VP	NRCS	VERMILLION	102	N/A	1994; Deauthorized	$92,147	This demonstration project's purpose was to investigate the ability of vegetation plantings of smooth cordgrass (Spartina alterniflora) to colonize a newly accreted mudflat, thereby establishing a vegetation buffer between the Gulf of Mexico and coastal wetlands. 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	SP	USFWS	CAMERON	640	N/A	1994	$1,227,123	This project protects the emergent wetlands of the Cameron Prairie National Wildlife Refuge adjacent to the GIWW, enhances the emergent wetlands protected by constructing approximately 2.5 miles of rock dike parallel to the existing spoil bank, and terminates the encroachment of the GIWW into the refuge.	4
CWPPRA	Humble Canal Hydrologic Restoration	ME-0011	HR	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	SP	NRCS	IBERIA	N/A	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 initiated to determine if California bulrush (Schoenoplectus californicus) 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	N/A	1998	$8,913,357	The goal of this project is to stop erosion along the bank of Freshwater Bayou Canal and to protect the interior wetlands from saltwater intrusion, increased tidal exchange and wake-induced 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	TE	NMFS	VERMILION	437	N/A	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 earthen terraces to reduce wave action. Terraces were constructed in a staggered gap formation and planted with smooth cordgrass (Spartina alterniflora) and California bulrush (Schoenoplectus californicus).	4
CWPPRA	Freshwater Introduction South of Highway 82	ME-0016	HR	USFWS	IBERIA	296	N/A	2006	$6,342,505	The purpose of the project was to move freshwater from White Lake across LA Hw 82 to target marshes and marsh restoration through earthen terraces.	4
CWPPRA	Little Pecan Bayou Hydrologic Restoration (Deauthorized)	ME-0017	HR	NRCS	CAMERON	144	N/A	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 conveyance 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 50,691 feet from Beach Prong to Joseph Harbor.	4
CWPPRA	Grand-White Lakes Landbridge Protection	ME-0019	SP	USFWS	CAMERON	213	N/A	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 shoreline stabilization and construction of terraces.	4
CWPPRA	South Grand Chenier Hydrologic Restoration	ME-0020	HR, MC	USFWS	VERMILION	440	N/A	Pending	$23,873,346	The objective of this project is a reduction in salinity in target marshes via fresh water introduction from Upper Mud Lake via the Dr. Miller Canal and culverts under Hwy 82. Restoration of 402 acres of brackish marsh from shallow open water and nourishment of 51 acres of marsh (total 453 acres) in two cells (176 and 277 acres) via 1.55 M cubic yards of dredged material from a Gulf of Mexico borrow site.	4
CWPPRA	Grand Lake Shoreline Protection, Tebo Point	ME-0021	SP	NRCS	CAMERON	495	N/A	Pending	$11,305,616	This project involves the construction of a rock dike to protect the south shoreline of Grand Lake from Catfish Lake to Tebo Point and perform long-term O&M on this dike as well as a separate portion from Superior Canal to Catfish Lake (constructed using CIAP 2007 funds).	4
CWPPRA	South White Lake Shoreline Protection	ME-0022	SP	USACE	VERMILION	844	N/A	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	98	N/A	Deauthorized	$4,438,693	The purpose of the project was to introduce freshwater from the lakes 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	OT	USACE	IBERIA	888	N/A	Pending/On Hold	$17,144,234	The goal of the project is to nourish 47,900 linear feet of gulf shoreline with sediment between Dewitt Canal and Big Constance Lake; and create approximately 421 acres of marsh platform, mud flat and shallow water, extending approximately 384 feet seaward. The project is on hold until the Phase I CSA template is finalized with the USACE.	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	N/A	Pending	$26,691,833	The purpose of this project is to create new wetland habitat, restore degraded marsh, and reduce wave erosion. Material dredged from the Gulf of Mexico will be utilized to create and nourish approximately 420 acres of marsh. Retention levees will be degraded and approximately 11,756 linear feet of tidal creeks will be constructed by tracking marsh buggies on the marsh platform for estuarine fisheries access. Smooth cordgrass plugs will be planted on 20-foot centers throughout the area (total 49,268 plants).	4
CWPPRA	West Bay Sediment Diversion	MR-0003	SD	USACE	PLAQUEMINES	9831	N/A	2003	$50,863,503	The project consists of a conveyance channel for large-scaled uncontrolled diversion of freshwater and sediments from the Mississippi River. The diversion channel was designed to be constructed in two phases: (1) Initial construction of an interim channel to accommodate a discharge of 20,000 cubic feet per second (cfs) at the 50% duration stages in the River and marsh development areas, and (2) Modification of the interim diversion channel design to accommodate full-scale diversion of 50,000 cfs at the 50% duration stage on the River after a period of intensive monitoring of diversion operations.	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 invert was lowered to -4.0 feet NGVD. In addition, an existing earthen channel leading from the armored gap to the open water area beyond the bank were enlarged. Approximately 125,000 cubic yards of material were excavated from the outfall channel and cast adjacent to the channel in a manner conducive to marsh nourishment.	1
CWPPRA	Pass-a-Loutre Crevasse (Deauthorized)	MR-0007	SD	USACE	PLAQUEMINES	1043	N/A	Deauthorized	$119,835	The objective of this project was to create and restore marsh in the Mississippi River Delta. This was to be accomplished through construction of a crevasse on the left descending bank of the Mississippi River between Pass-a-Loutre and Raphael Pass. The project was officially deauthorized by the CWPPRA Task Force in July of 1998 due to high costs attributed to relocating underground utilities in the area.	1
CWPPRA	Beneficial Use of Hopper Dredged Material Demonstration (Deauthorized)	MR-0008	DM	USACE	PLAQUEMINES	N/A	N/A	Deauthorized	$58,309	The goal of this project was to utilize dredged material from a hopper dredge to create emergent vegetated marsh in an area that is currently a shallow open-water pond. Due to design problems, the project was officially deauthorized by the CWPPRA Task Force in November of 2000.	2
CWPPRA	Delta Wide Crevasses	MR-0009	SD	NMFS	PLAQUEMINES	2386	N/A	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 Pass-a-Loutre Wildlife Management Area and the Delta National Wildlife Refuge by either cleaning existing splays or creating new ones.	1
CWPPRA	Dustpan Maintenance Dredging Operations for Marsh Creation in the Mississippi River Delta Demonstration	MR-0010	DM	USACE	PLAQUEMINES	N/A	N/A	2002	$1,909,020	This project demonstrated the beneficial use of dredged material from routine maintenance of the Mississippi River Navigation Channel by using a dustpan hydraulic dredge to create and restore adjacent marsh. Approximately 40 acres of deteriorated marsh that had converted to shallow open water were restored with approximately 222,000 cubic yards of dredged material.	2

ONGOING PROTECTION AND RESTORATION SUMMARIES

CPRA Program	Name	State Project Number	Project Type	Federal Sponsor	Parish	Acres Benefited	Miles of Levee Improved	Construction Completion	Total Budget	Project Description	Planning Unit
CWPPRA	Periodic Introduction of Sediment and Nutrients at Selected Diversion Sites Demonstration (Deauthorized)	MR-0011	FD	USACE	ST BERNARD	N/A	N/A	Deauthorized	$83,556	This demonstration project was intended to show the effectiveness of using a hydraulic pipeline dredge to provide increased sediment through a diversion structure or siphon. 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 CWPPRA Task Force.	1
CWPPRA	Mississippi River Sediment Trap (Deauthorized)	MR-0012	MC	USACE	PLAQUEMINES	1190	N/A	Deauthorized	$354,790	This project was reauthorized on the 12th PPL to create emergent wetlands through the beneficial use of material dredged from a sediment trap located between miles 5 and 1 above Head of Passes in the Mississippi River. The proposed sediment trap will consist of an area dredged out of the riverbed that will force sediment deposition. The project was officially deauthorized by the CWPPRA Task Force in 2009 due to the high cost to implement the project.	1, 2
CWPPRA	Benneys Bay Diversion (Deauthorized)	MR-0013	SD	USACE	PLAQUEMINES	4580	N/A	Deauthorized	$976,580	The objective of the project was to create vegetated wetlands in shallow open water areas in Benneys Bay. The project would divert sediment in an effort to create, nourish, and maintain approximately 16,982 acres of fresh to intermediate marsh over the 20-year project life. The project was deauthorized by the CWPPRA Task Force in 2013.	1
CWPPRA	Spanish Pass Diversion (Deauthorized)	MR-0014	SD	USACE	PLAQUEMINES	433	N/A	Deauthorized	$310,151	The goal of this project was to create emergent marsh by diverting Mississippi River water and sediment from Grand Pass into open water receiving areas. The project was deauthorized by the CWPPRA Task Force in 2013.	2
CWPPRA	Venice Ponds Marsh Creation and Crevasses (Inactive)	MR-0015	MC	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 dedicated dredging, hydrologic restoration, crevasse construction, and crevasse enhancement. The project was designated as Inactive by the CWPPRA Task Force in 2013.	2
CWPPRA	Fritchie Marsh Restoration	PO-0006	HR	NRCS	ST TAMMANY	1040	N/A	2001	$2,201,674	The purpose of the project is to achieve remediation of the causes of wetland loss in the area and to improve habitat for wildlife and fisheries by increasing the flow of fresh water into the marsh and managing the outfall.	1
CWPPRA	Violet Freshwater Distribution (Deauthorized)	PO-0009-A	HR	NRCS	ST BERNARD	247	N/A	Deauthorized	$128,626	The objective of the outfall management plan was to optimize the use of freshwater and sediment supplied by the existing siphons by managing water flow through the area. This would be accomplished by reducing channelized flow and routing the diverted flow across marshes or through shallow water areas instead of through larger channels. This project was officially deauthorized by the CWPPRA Task Force in 2001 because of landrights issues.	1
CWPPRA	Bayou Sauvage National Wildlife Refuge Hydrologic Restoration, Phase 1	PO-0016	HR	USFWS	ORLEANS	3800	N/A	1996	$1,680,193	The Lake Pontchartrain Hurricane Protection levee isolates units 3 and 4 of the Bayou Sauvage Wildlife Refuge from the surrounding marsh complex and establishes a large freshwater impoundment. This project established a means for removing the excess water during the spring and summer.	1
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.	1
CWPPRA	Bayou Sauvage National Wildlife Refuge Hydrologic Restoration, Phase 2	PO-0018	HR	USFWS	ORLEANS	1280	N/A	1997	$1,692,552	The construction of U.S. Highway 90, canals, railroad lines, and Lake Ponctchartrain hurricane protection levees has impounded the marsh in the project area. Project features consist of two 36-inch pumps, which operate to maintain water levels at 0.5 feet above or below marsh elevation to promote vegetative growth in the project area.	1
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 repairing the lateral and rear dikes of the Mississippi River Gulf Outlet (MRGO) disposal areas. Repairs to a 28,000 linear-foot dike, in conjunction with the installation of metal box weirs with a single 40-inch pipe, were used to control and divert water flow to prevent the perched marshes from draining.	1
CWPPRA	Red Mud Demonstration (Deauthorized)	PO-0020	MC	EPA	ST JOHN THE BAPTIST	N/A	N/A	Deauthorized	$520,129	This project was authorized to determine whether red mud, produced as a by-product of removing alumina from bauxite, could be utilized as marsh-creation material in combination with compost and marsh sediment. Construction of experimental units was initiated in 1997; however, due to unexpected problems with fill material, liners, and contaminants in the water source, the project was officially deauthorized by the CWPPRA Task Force in August 2001.	1
CWPPRA	Eden Isles East Marsh Restoration (Deauthorized)	PO-0021	HR	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 marsh creation. There was a change in landowners of the project area during the planning phase of this project. Consequently, the project was officially deauthorized by the CWPPRA Task Force in January 1998.	1
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.	1
CWPPRA	Hopedale Hydrologic Restoration	PO-0024	HR	NMFS	ST BERNARD	106	N/A	2005	$2,281,287	This project is designed to abate site-specific wetland loss by replacing collapsed culverts installed in the 1950s near Yscloskey, Louisiana. Replacement of these structures would allow more rapid drainage of the area, improve fisheries access, reduce wetland loss rates, and protect approximately 3,086 acres of marsh.	1
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 terraces planted with smooth cordgrass (Spartina alterniflora). This would force the flow of freshwater and nutrients through a deteriorated marsh area to abate site-specific marsh loss. The project was officially deauthorized by the CWPPRA Task Force in April 2002 because construction was determined to be too costly.	1
CWPPRA	Opportunistic Use of the Bonnet Carre Spillway (Deauthorized)	PO-0026	FD	USACE	PLAQUEMINES	177	N/A	Deauthorized	$83,932	This project intended to abate high salinity stress on the vegetated wetlands surrounding Lake Pontchartrain. This objective was to be accomplished through the removal of pins from the Bonnet Carre´ Spillway structure during high flow periods in the Mississippi River to allow no more than 4,000 cubic feet per second of water to flow from the river into Lake Pontchartrain. This project was officially deauthorized by the CWPPRA Task Force in October of 2007 due to uncertainty of benefits and lack of landowner support.	1
CWPPRA	Chandeleur Islands Marsh Restoration	PO-0027	VP	NMFS	ST BERNARD	88	N/A	2001	$839,927	The objective of this project was to accelerate the recovery period of barrier island areas overwashed by Hurricane Georges in 1998 through vegetation plantings. The overwash areas, which encompass 364 acres, are located at 22 sites along the Chandeleur Sound side of the island chain and were planted with smooth cordgrass (Spartina alterniflora).	1
CWPPRA	LaBranche Wetlands Terracing, Planting, and Shoreline Protection (Deauthorized)	PO-0028	VP	NMFS	ST CHARLES	489	N/A	Deauthorized	$306,836	Located along Lake Pontchartrain, the project intended to reduce emergent marsh loss along the shoreline by restoring and creating 489 acres through marsh terracing, shoreline protection, and vegetation planting. This project was officially deauthorized by the CWPPRA Task Force in October 2007.	1
CWPPRA	Lake Borgne Shoreline Protection	PO-0030	SP	EPA	ST BERNARD	229	N/A	2008	$28,908,775	The goal of this project is to maintain the integrity of the narrow strip of marsh that separates Lake Borgne from the Mississippi River Gulf Outlet (MRGO). This land helps protect the communities of Shell Beach, Yscloskey, and Hopedale from direct exposure to lake wave energy and storm surges. The goal was accomplished through construction of a continuous nearshore rock breakwater.	1
CWPPRA	Lake Borgne and MRGO Shoreline Protection (Deauthorized)	PO-0032	SP	USACE	ST BERNARD	93	N/A	Deauthorized	$1,089,193	The objective of this project was to preserve the marsh between Lake Borgne and the Mississippi River Gulf Outlet (MRGO) by constructing a rock dike along the Lake Borgne shoreline and the northern bank of the MRGO. 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 deauthorized by the CWPPRA Task Force.	1
CWPPRA	Goose Point/Point Platte Marsh Creation	PO-0033	MC	USFWS	ST TAMMANY	436	N/A	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.	1
CWPPRA	Alligator Bend Marsh Restoration and Shoreline Protection	PO-0034	TE, VP, SP	NRCS	ORLEANS	121	N/A	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 vegetative plantings.	1
CWPPRA	LaBranche East Marsh Creation	PO-0075	MC	NRCS	ST CHARLES	715	N/A	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 Pontchartrain.	1
CWPPRA	Shell Beach South Marsh Creation	PO-0168	MC	EPA	ST BERNARD	634	N/A	Pending	$27,946,159	The project would create and/or nourish 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.	1
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.	1
CWPPRA	Fritchie Marsh Creation and Terracing	PO-0173	MC	NOAA	ST TAMMANY	366	N/A	Pending	$27,020,763	The project goal is to create and/or nourish approximately 340 acres of emergent brackish marsh and create 36,610 feet of earthen terraces (26 emergent acres) in the Fritchie Marsh area between the city of Slidell and the Rigolets using sediment from Lake Pontchartrain.	1

ONGOING PROTECTION AND RESTORATION SUMMARIES

CPRA Program	Name	State Project Number	Project Type	Federal Sponsor	Parish	Acres Benefited	Miles of Levee Improved	Construction Completion	Total Budget	Project Description	Planning Unit
CWPPRA	Grand Bayou Hydrologic Restoration (Deauthorized)	TE-0010	HR	USFWS	LAFOURCHE	199	N/A	Deauthorized	$1,452,357	The objective of the project was to maintain emergent wetlands in this area by providing supplemental freshwater, nutrients, and sediment from the Atchafalaya River via the Gulf Intracoastal Waterway (GIWW). Project features included a water control structure on Bayou Pointe au Chien just south of its junction with St. Louis Canal, the relief structure on Grand Bayou, and the pipeline structure on Grand Bayou Canal. The project has been deauthorized by the CWPPRA Task Force.	3A
CWPPRA	Falgout Canal Planting Demonstration	TE-0017	VP	NRCS	TERREBONNE	N/A	N/A	1996	$206,522	For this demonstration project, smooth cordgrass (Spartina alterniflora) 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	VP	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 habitat type of Timbalier Island was planted in several areas on the island to trap sand and buffer wind and wave energy.	3A
CWPPRA	Lower Bayou LaCache Hydrologic Restoration (Deauthorized)	TE-0019	MM	NMFS	TERREBONNE	N/A	N/A	Deauthorized	$99,625	The project would have reduced marsh loss rates and improved fish and wildlife habitat quality by restoring natural north-south water exchange with estuarine water bodies and by reducing flow through the numerous dredged canals in the area. Because of problems with landrights and navigation, the project was officially deauthorized by the CWPPRA Task Force in 1996.	3A
CWPPRA	Isles Dernieres Restoration East Island	TE-0020	BH	EPA	TERREBONNE	449	N/A	1999	$8,762,416	The project objective is to restore the coastal dunes and wetlands of the Eastern Isles Dernieres barrier island chain. Approximately 3.9 million cubic yards of sand were dredged from Lake Pelto and used to build a retaining dune which was then hydraulically filled 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 Atchafalaya River. Phase I of this project, completed in 1997, involved the plugging of two major natural gas/oil pipeline canals on the eastern half of the island. Under Phase II, a rock shoreline stabilization structure was constructed in 2000 along a thin strech of beach separating the Gulf of Mexico from the Mobil Canal.	3B
CWPPRA	West Belle Pass Headland Restoration	TE-0023	SP	USACE	LAFOURCHE	474	N/A	1998	$6,826,754	The project reduces the encroachment of Timbalier Bay into the marshes on the west side of Bayou Lafourche with the use of dedicated dredged materials to create 184 acres of marsh on the west side of Belle Pass. A water control structure was placed in the Evans Canal, and plugs on other canals.	3A
CWPPRA	Isles Dernieres Restoration Trinity Island	TE-0024	BH, MC	EPA	TERREBONNE	776	N/A	1999	$10,774,974	The project objectives are to restore the Trinity Island (dunes and marsh) wetlands of the Isles Dernieres chain, enhance the physical integrity of the island, and protect the lower Terrebonne estuary.	3A
CWPPRA	East Timbalier Island Sediment Restoration	TE-0025	BH	NMFS	TERREBONNE	1913	N/A	2001	$3,720,721	The objective of this project is to strengthen and thus increase the life expectancy of East Timbalier Island. The project called for the mining of 2.7 million cubic yards of sediment and placement of the material in three embayments along the landward shoreline of East Timbalier Island. The project also included aerial seeding of the dune platform, installation of sand fencing, and dune vegetation plantings.	3A
CWPPRA	Lake Chapeau Sediment Input and Hydrologic Restoration, Point Au Fer Island	TE-0026	MC	NMFS	TERREBONNE	509	N/A	1999	$6,810,133	The objectives of this project are to restore the marshes west of Lake Chapeau, re-establish the hydrologic separation of the Locust Bayou and Alligator Bayou watersheds, and re-establish the natural drainage patterns within the Lake Chapeau area. To accomplish this material dredged from Atchafalaya Bay was used to create marsh, oil field access canals were plugged, and spoil banks were gapped. An estimated 850,000 cubic yards of material were hydraulically dredged from Atchafalaya Bay and spread to a thickness of approximately 2 feet to create 160 acres of marsh.	3B
CWPPRA	Whiskey Island Restoration	TE-0027	BH, MC	EPA	TERREBONNE	657	N/A	2000	$7,106,586	The project created and restored beaches and back island marshes on Whiskey Island. The project created 523 acres of back island marsh and filling in the breach at Coupe Nouvelle (134 acres). The initial vegetation planting with smooth cordgrass (Spartina alterniflora) on the bay shore was completed in July 1998 and additional vegetation seeding/planting was carried out in Spring 2000.	3A
CWPPRA	Brady Canal Hydrologic Restoration	TE-0028	HR	NRCS	TERREBONNE	297	N/A	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.	3B
CWPPRA	Raccoon Island Breakwaters Demonstration	TE-0029	BH	NRCS	TERREBONNE	N/A	N/A	1997	$1,795,388	This project protects the newly refurbished beaches and wetlands of Raccoon Island and protect back barrier and mainland marshes with six segmented breakwaters.	3A
CWPPRA	East Timbalier Island Sediment Restoration	TE-0030	BH	NMFS	TERREBONNE	215	N/A	2000	$7,600,150	The project goal is to strengthen and increase the life expectancy of East Timbalier Island by placing dredged material along its landward shoreline. Additional rock has been placed on the existing breakwater in front of the island, which will help protect the created area from erosion.	3A
CWPPRA	Flotant Marsh Fencing Demonstration (Deauthorized)	TE-0031	SP	NRCS	TERREBONNE	N/A	N/A	Deauthorized	$106,960	The purpose of this demonstration project was to determine the effectiveness of different fencing techniques used to conserve and restore floating marshes. There was difficulty in locating an appropriate site for demonstration and in addressing engineering constraints. The restoration techniques that were originally suggested for this project were not feasible. The project was officially deauthorized by the CWPPRA Task Force in 2001.	3A
CWPPRA	North Lake Boudreaux Basin Freshwater Introduction and Hydrologic Management	TE-0032-A	FD	USFWS	TERREBONNE	603	N/A	Pending	$26,875,959	The project aims to introduce freshwater from the HNC through an enlarged Bayou Pelton channel across Bayou Grand Caillou and through a gated channel.	3A
CWPPRA	Bayou Boeuf Pump Station (Deauthorized)	TE-0033	HR	EPA	TERREBONNE	N/A	N/A	Deauthorized	$3,452	The purpose of this project was to link the wetlands protection/restoration objectives of the CWPPRA with flood protection and navigation needs generally covered by WRDA. The project components consisted of implementing a long-term water management strategy for the Verret Basin, and evaluating a long-term river water delivery strategy from Atchafalaya River to Terrebonne wetlands. The project was officially deauthorized by the CWPPRA Task Force in 1998.	3A
CWPPRA	Penchant Basin Natural Resources Plan, Increment 1	TE-0034	FD, HR, SP	NRCS	TERREBONNE	675	N/A	2011	$17,628,814	The objective of the project is to divert freshwater flow from north-western to south-eastern sub project areas coupled with protection measures to reduce inundation of fragile marsh areas in overall Penchant Basin in Terrebonne Parish.	3B
CWPPRA	Marsh Creation East of the Atchafalaya River - Avoca Island (Deauthorized)	TE-0035	MC	USACE	ST MARY	434	N/A	Deauthorized	$66,869	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 benefited 434 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 1998.	3B
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, continuously floating marsh from a thin-mat flotant using various combinations of treatments including fertilization, herbivory reduction, and transplanting healthy, thick-mat marsh plugs into the thin-mat flotant. Project monitoring is intended to determine the effects of water movement and sediment availability on these marshes.	3B
CWPPRA	New Cut Dune and Marsh Restoration	TE-0037	BH, MC	EPA	TERREBONNE	386	N/A	2008	$12,869,325	The objective of this project was to close the breach between East and Trinity Islands that was originally created by Hurricane Carmen (1974) and subsequently enlarged by Hurricane Juan (1985) and Hurricane Andrew (1992). The project involved the creation of barrier island dunes and marsh habitat and lengthening the structural integrity of the eastern Isles Dernieres by restoring the littoral drift and adding sediment into the near-shore system.	3A
CWPPRA	South Lake Decade Freshwater Introduction	TE-0039	SP	NRCS	TERREBONNE	202	N/A	2011	$5,223,806	This project involves the construction of a water control structure in the southern bank of Lake DeCade. The strucure increases the amount of Atchafalaya River water and sediment introduced into the marshes south of the lake. In addition, shoreline protection was implemented adjacent to the proposed structure, and a weir in Lapeyrouse Bayou was removed.	3A
CWPPRA	Timbalier Island Dune and Marsh Restoration	TE-0040	BH, MC	EPA	TERREBONNE	663	N/A	2004	$16,662,199	Timbalier Island is migrating rapidly to the west/northwest; therefore, the western end of Timbalier Island is undergoing lateral migration by spit-building processes at the expense of erosion along the eastern end. The objective of this project is to restore the eastern end of Timbalier Island by the direct creation of beach, dunes, and marsh.	3A
CWPPRA	Mandalay Bank Protection Demonstration	TE-0041	SP	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. Intact banks and breakthroughs were treated to determine the cost-effectiveness of demonstrated approaches. The project allows the evaluation of several low-cost solutions for restoring habitat in blowout areas and preventing bank erosion.	3A, 3B
CWPPRA	Move Existing Atchafalaya Water to Central Terrebonne (Transferred)	TE-0042	HR	USFWS	ST MARY	N/A	N/A	Transferred	N/A	This project is intended to reduce marsh loss through the improved distribution of excess freshwater seasonally available in the Gulf Intracoastal Waterway (GIWW). The project will benefit deteriorating 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	SP	NRCS	TERREBONNE	345	N/A	2014	$13,022,245	The project objective is to restore critical lengths of deteriorated channel banks and stabilize/armor selected critical lengths of deteriorated channel banks with hard shoreline stabilization materials. A portion of this project was constructed using CIAP 2007 funds and the remainder of the project was constructed under CWPPRA.	3A
CWPPRA	North Lake Mechant Landbridge Restoration	TE-0044	SP, MC	USFWS	TERREBONNE	604	N/A	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 Ridge), which provides a hydrologic barrier between brackish and low-salinity habitats. Project features include marsh creation, the planting of smooth cordgrass (Spartina alterniflora) on the shoreline, the construction of various plugs, and repairing a fixed-crest weir along Bayou Raccourci.	3A
CWPPRA	Terrebonne Bay Shore Protection Demonstration	TE-0045	SP	USFWS	TERREBONNE	0	N/A	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

ONGOING PROTECTION AND RESTORATION SUMMARIES

CPRA Program	Name	State Project Number	Project Type	Federal Sponsor	Parish	Acres Benefited	Miles of Levee Improved	Construction Completion	Total Budget	Project Description	Planning Unit
CWPPRA	West Lake Boudreaux Shoreline Protection and Marsh Creation	TE-0046	SP	USFWS	TERREBONNE	145	N/A	2008	$17,893,813	The purpose of this project is to create and nourish about 200 acres of marsh along the western shoreline of Lake Boudreaux to protect the shoreline from erosion due to direct exposure to lake wave energy and to restore interior marsh lost to subsidence and saltwater intrusion.	3A
CWPPRA	Ship Shoal: Whiskey West Flank Restoration (Inactive)	TE-0047	BH	EPA	TERREBONNE	500	N/A	Inactive	$1,599,810	The objective of this project is to rebuild dunes and a marsh platform on the west flank of Whiskey Island through the deposition of dredged material transported from Ship Shoal. This project would provide a barrier to reduce wave and tidal energy, thereby protecting mainland shoreline from continued erosion. The project was designated as Inactive by the CWPPRA Task Force in 2013.	3A
CWPPRA	Raccoon Island Shoreline Protection and Marsh Creation	TE-0048	BH, MC	NRCS	TERREBONNE	16	N/A	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 Gulf of Mexico to create marsh on the land side of the island.	3A
CWPPRA	Avoca Island Diversion and Land Building (Deauthorized)	TE-0049	FD, MC	USACE	ST MARY	N/A	N/A	Deauthorized	$19,157,200	Project features include a small diversion from Bayou Shaffer into Avoca Lake paired with marsh creation through dedicated dredging. The project was subsequently deauthorized by the CWPPRA Task Force.	3A
CWPPRA	Whiskey Island Back Barrier Marsh Creation	TE-0050	BH	EPA	TERREBONNE	270	N/A	2010	$30,414,083	The goal of this project is to recreate a back barrier marsh platform on which the barrier island can migrate in order to increase the longevity of the previously restored and natural portions of the island. Heavy construction was complete in the fall of 2009. Project features included construction of 316 acres of back barrier marsh, 5,800 linear feet of tidal creeks, three 1-acre tidal ponds, and 13,000 linear feet of sand dune on the gulf side beach shore.	3A
CWPPRA	Madison Bay Marsh Creation and Terracing	TE-0051	MC, TE	NMFS	TERREBONNE	1019	N/A	Pending	$39,821,438	The goals of this project are to create and nourish marsh and associated edge habitat and to promote conditions conducive to the growth of submerged aquatic vegetation. The proposed terraces will reduce the wave erosion of existing marshes along the fringes of Madison Bay. The project would benefit approximately 1,019 acres of fresh marsh and open water over the 20-year project life.	3A
CWPPRA	West Belle Pass Barrier Headland Restoration	TE-0052	BH	NMFS	LAFOURCHE	389	N/A	2012	$39,422,093	This project involves the reestablishment of the West Belle headland by rebuilding a large portion of the beach, dune, and back barrier marsh that once existed. Approximately 9,300 feet of beach and dune were rebuilt.	3A
CWPPRA	Enhancement of Barrier Island Vegetation Demo	TE-0053	VP	EPA	TERREBONNE	N/A	N/A	2011	$919,264	The goal of this project is to test several technologies or products to enhance the establishment and growth of key barrier island and salt marsh vegetation. The project focuses specifically on enhancing the establishment and growth of transplants of both dune vegetation [bitter panicum (Panicum amarum) and sea oats (Uniola paniculata)] and marsh vegetation [smooth cordgrass (Spartina alterniflora) and black mangrove (Avicennia germinans)].	3A
CWPPRA	Central Terrebonne Freshwater Enhancement	TE-0066	MC, HR	NRCS	TERREBONNE	456	N/A	Pending	$17,890,120	The project will reestablish historic hydrologic and salinity conditions by reducing the artificial intrusion of Gulf marine waters via the Grand Pass into the Central Terrebonne marshes while enhancing the influence of the Atchafalaya River waters into the area.	3A
CWPPRA	Lost Lake Marsh Creation and Hydrologic Restoration	TE-0072	HR, MC	USFWS	TERREBONNE	749	N/A	Pending	$35,873,728	Project goals include 1) restore an important feature of structural framework between Lake Pagie and Bayou Decade to prevent the coalescence of those two water bodies, 2) increase the delivery of fresh water, sediments, and nutrients into marshes north and west of Lost Lake, 3) reduce fetch in open water areas via construction of a terrace field.	3A, 3B
CWPPRA	Terrebonne Bay Marsh Creation - Nourishment	TE-0083	MC	USFWS	TERREBONNE	353	N/A	Pending	$28,664,401	Project goals are to create 365 acres of intertidal marsh in shallow open water and nourish 299 acres of fragmented marsh within the project area reducing water exchange between Terrebonne Bay and interior lakes during tidal and small storm events and to reduce erosion along 16,000 ft of the northern Terrebonne Bay shoreline.	3A
CWPPRA	North Catfish Lake Marsh Creation	TE-0112	MC	NRCS	LAFOURCHE	265	N/A	Pending	$30,325,016	Sediments will be hydraulically dredged from Catfish Lake and pumped via pipeline to create approximately 415 acres of marsh habitat and nourish an additional 251 acres of marsh habitat.	3A
CWPPRA	Island Road Marsh Creation & Nourishment	TE-0117	MC	NMFS	TERREBONNE	312	N/A	Pending	$40,435,267	The proposed project's primary feature is 364 acres of created saline marsh and 19 acres of nourished saline marsh adjacent to Island Road. Sediment will be hydraulically pumped from a borrow source near Lake Felicity. Half of the newly constructed marsh (182 acres) will be planted following construction to stabilize the platform and reduce time for full vegetation. The project would result in an approximate net increase of 312 acres over the 20-year project life.	3A
CWPPRA	West Fourchon Marsh Creation	TE-0134	MC	NMFS	LAFOURCHE	304	N/A	Pending	$29,037,768	The goals of this project are to create and nourish 614 acres of marsh, by pumping sediment from an offshore borrow site in the Gulf of Mexico. This project will create new marsh habitat and increase the longevity of existing habitat. The project will also help protect the people and infrastructure of Port Fourchon.	2
CWPPRA	Vermilion River Cutoff Bank Protection	TV-0003	SP	USACE	VERMILION	202	N/A	1996	$2,047,479	The project design includes protecting the east side of the Vermilion River Cutoff with rock to prevent further erosion; hardening the points on existing land bridges on the west bank of the Cutoff with rock; and constructing sediment trapping fences on the Vermilion Bay side to help stabilize and protect the land bridge from wave action in the Bay.	3B
CWPPRA	Cote Blanche Hydrologic Restoration	TV-0004	HR	NRCS	ST MARY	2223	N/A	1998	$10,093,902	The primary objectives of the project are to reduce future shoreline loss from wave erosion, reduce excessive tidal fluctuations and rapid tidal exchange to prevent scouring of interior marsh, develop a hydrologic regime conducive to sediment and nutrient deposition, and to re-establish vegetation in eroded areas.	3B
CWPPRA	Boston Canal/Vermilion Bay Bank Protection	TV-0009	SP	NRCS	VERMILION	378	N/A	1995	$1,043,748	The project involves stabilizing 15 miles of Vermilion Bay shoreline and preventing further regression of the Boston Canal banks. A strip of Vermilion Bay shoreline approximately 25 feet wide by 15 miles long was planted with single stems of Spartina alterniflora at 3 foot intervals.	3B
CWPPRA	Freshwater Bayou Bank Stabilization - Belle Isle Canal to Lock (Inactive)	TV-0011-B	SP	USACE	VERMILION	N/A	N/A	Inactive	$1,101,738	The project was intended to construct a rock dike to protect the east shoreline of Freshwater Bayou Canal. The project was subsequently designated as Inactive by the CWPPRA Task Force.	3B
CWPPRA	Little Vermilion Bay Sediment Trapping	TV-0012	TE	NMFS	VERMILION, IBERIA	441	N/A	1999	$886,030	This project is designed to optimize the retention of sediment from the Atchafalaya River to create new marsh areas in Little Vermilion Bay. Dredged material was placed to create emergent marsh, thereby protecting the existing shoreline from wind-induced wave erosion.	3B
CWPPRA	Oaks/Avery Canal Hydrologic Restoration, Increment 1	TV-0013-A	HR	NRCS	VERMILION, IBERIA	160	N/A	2002	$2,925,216	The objective of the project is to improve hydrology, reduce tidal fluctuation to minimize marsh loss, and provide protection to critically eroding bankline and shoreline area.	3B
CWPPRA	Marsh Island Hydrologic Restoration	TV-0014	HR	USACE	IBERIA	408	N/A	2001	$5,143,323	The objective of the project is to stabilize the northeastern shoreline of Marsh Island, including the northern shoreline of Lake Sand, and to help to restore the historical hydrology. The project included construction of nine plugs in oil and gas canals at the northeast end of Marsh Island, protection of the northeast shoreline with rock, and isolation of Lake Sand from Vermilion Bay with a rock dike.	3B
CWPPRA	Sediment Trapping at "The Jaws"	TV-0015	TE, VP	NMFS	ST MARY	1999	N/A	2005	$1,653,792	The objective of the project is to induce sedimentation to create emergent vegetated wetlands. This was achieved by constructing wetland terraces, thereby reducing wave fetch. Distributary channels were dredged to deliver water and sediment to the project area.	3B
CWPPRA	Cheniere Au Tigre Sediment Trapping Demonstration	TV-0016	SNT	NRCS	VERMILION	N/A	N/A	2001	$624,999	The objective of the project is to field test a conceptual device designed to trap sediment from the gulf tides, stabilize the on-going erosion on Cheniere au Tigre and build up portions of the coastline that have already eroded away.	3B
CWPPRA	Lake Portage Land Bridge	TV-0017	SP	NRCS	VERMILION	1496	N/A	2004	$1,181,129	The objective of this project is to prevent the shoreline south of Lake Portage from breaching and creating another pass from Vermilion Bay to the Gulf. The project consists of backfilling a canal and armoring the beach with rock.	3B
CWPPRA	Four Mile Canal Terracing and Sediment Trapping	TV-0018	TE	NMFS	IBERIA	52	N/A	2004	$2,667,186	This project includes construction and planting of terraces with smooth cordgrass (Spartina alterniflora) within Little White Lake and Little Vermilion Bay, along Four Mile Canal, to abate wave-induced shoreline erosion and facilitate sedimentation in the open water areas between the terraces.	3B
CWPPRA	Weeks Bay Marsh Creation and Shore Protection/ Commercial Canal Freshwater Redirection (Transferred)	TV-0019	SP	USACE	IBERIA	N/A	N/A	Transferred	$30,227	The goal of the project is to create marsh to restore land-bridge separating Weeks Bay and GIWW. In 2013, the CWPPRA Task Force transferred implementation of the project to parish stakeholders.	3B
CWPPRA	Bayou Sale Shoreline Protection (Deauthorized)	TV-0020	SP	NRCS	ST MARY	131	N/A	Deauthorized	$32,103,020	The goal of the project was to protect an eroding shoreline with approx 35,776 feet of rock dike shoreline protection. The project was deauthorized by the CWPPRA Task Force in 2014.	3B
CWPPRA	East Marsh Island Marsh Creation	TV-0021	MC	NRCS	IBERIA	1159	N/A	2010	$21,215,936	The objective of the project was to create approximately 362 acres of sustainable marsh. The majority of the project area has been converted to open water, primarily because of hurricane Lili (2002). Through the use of approximately $5 million in unused construction funds, over 500 acres of additional marsh was created/nourished. The sediment for marsh creation was dredged from East Cote Blanche Bay and pumped a maximum of 6 miles.	3B
CWPPRA	Cole's Bayou Marsh Creation	TV-0063	MC	NMFS	VERMILION	398	N/A	Pending	$27,881,223	The project consists of creating/nourishing marsh habitat and increasing freshwater and sediment inflow into interior wetlands by improving project area hydrology.	3B

ONGOING PROTECTION AND RESTORATION SUMMARIES

CPRA Program	Name	State Project Number	Project Type	Federal Sponsor	Parish	Acres Benefited	Miles of Levee Improved	Construction Completion	Total Budget	Project Description	Planning Unit
FEDERAL	Lake Pontchartrain Hurricane Mitigation Project	HPL-MIT	SP	USACE	ST JOHN THE BAPTIST	600	N/A	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 Manchac Wildlife Management Area. The project specifically mitigated for damages resulting from construction of the Lake Pontchartrain Hurricane Protection project.	1
FEDERAL	MRGO Ecosystem Restoration	PO-0065	VP, FD, MM, SP, MC	USACE	ST BERNARD, ORLEANS	53700	N/A	Pending	$2,900,000,000	This project investigates an suite of restoration measures that are collectively intended to restore some of the ecosystem damaged by construction of MRGO.	1
FEDERAL	Lost Lake Vegetation Project	TE-0082	VP	USFWS	TERREBONNE	N/A	N/A	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 Maintenance	DSR-81557	SP	FEMA	TERREBONNE	4000	N/A	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	DM	FEMA	TERREBONNE	25	N/A	1995	$253,579	This FEMA project was a cooperative venture with the USACE in the beneficial use of dredged material from a scheduled Houma Navigational Canal maintenance dredging project. The island was repaired to pre-Hurricane Andrew condition and planted with vegetation to stabilize the sediment.	3A
FEMA	Timbalier Island Repairs	DSR-81559	BH	FEMA	TERREBONNE	70	N/A	1996	$551,653	This FEMA project closed a major breach created by Hurricane Andrew and provided a 300-foot-wide elevated marsh platform to stabilize the island. Vegetation was also planted to stabilize the sand.	3A
FEMA	East Island Repair Protection	DSR-81560	DM	FEMA	TERREBONNE	25	N/A	1996	$633,179	This FEMA project constructed an elevated marsh platform in an area of a Terrebonne Parish project destroyed by Hurricane Andrew in 1992. Vegetation was also planted to stabilize the sand.	3A
FEMA	LaBranche Wetlands	DSR-81768	SP	FEMA	ST CHARLES	N/A	N/A	2000	$43,315	A 700-foot section of a Christmas tree brush fence was repaired. This project was damaged by Hurricane Georges, Hurricane Earl, and Tropical Storm Francis in 1998.	1
FEMA	Timbalier Island	DSR-81784	BH	FEMA	TERREBONNE	N/A	N/A	2000	$181,394	This FEMA project repaired sand fencing on Timbalier Island that was destroyed during a series of tropical storms and hurricanes in the fall of 1998.	3A
FEMA	Falgout Canal	DSR-81785	SP	FEMA	TERREBONNE	N/A	N/A	2000	$10,761	This FEMA project replaced flap gates on water control structures damaged during tropical storms and hurricanes in the fall of 1998. The installation of the new flapgate culverts was completed by Terrebonne Parish Consolidated Government.	3A
FEMA	East Island	DSR-81786	VP	FEMA	TERREBONNE	N/A	N/A	2000	$168,113	This FEMA project involved the planting of marsh vegetation on the dune and Lake Pelto shoreline of East Island. This area is part of a CWPPRA project damaged by a series of tropical storms and hurricanes in the fall of 1998. A total of 4,280 smooth cordgrass (Spartina alterniflora), 500 black mangrove (Avicennia germinans), and 6,147 roseau cane (Phragmites australis) plants were planted in April 2000.	3A
FEMA	Isle Dernieres (Whiskey Island)	DSR-81787	VP	FEMA	TERREBONNE	1259	N/A	2000	$581,566	This FEMA project involved the installation of sand fencing and the planting of vegetation to repair areas of Whiskey Island damaged by tropical storms and hurricanes during the fall of 1998. This area is part of a CWPPRA project area and CWPPRA funds were combined with the FEMA funds for repairs.	3A
FEMA	Marsh Island Repairs	PW-1646	MM	FEMA	IBERIA	N/A	N/A	2005	$885,861	This FEMA project consisted of repairs to areas of stone paving, stone dikes, and minor repair of navigation aids on the Marsh Island Hydrologic Restoration (TV-14) project damaged during Hurricane Lili in 2002. The project also included minor maintenance work paid for by CWPPRA.	3B
FEMA	Cote Blanche Repairs	PW-1906	HR	FEMA	ST MARY	N/A	N/A	2005	$64,092	This FEMA project consisted of repairs to areas of stone paving, stone dikes, and minor repair of navigation aids on the Cote Blanche Hydrologic Restoration (TV-04) project damaged during Hurricane Lili in 2002. The project also included minor maintenance work paid for by CWPPRA.	3B
FEMA	Cameron Creole Structures	PW-4257	HR	FEMA	CAMERON	N/A	N/A	2007	$325,700	This FEMA project consists of repairs to five structures of the Cameron-Creole Maintenance (CS-04a) project that were damaged by Hurricane Rita in 2005. These structures are located at Grand, Peconi, Lambert, No Name, and Mangrove Bayous.	4
FEMA	Holly Beach Sand Fencing	PW-4403	SP	FEMA	CAMERON	N/A	N/A	2006	$218,473	This FEMA project consists of the replacement of 46,000 linear feet of sand fencing on the Holly Beach Sand Management (CS-31) project that was destroyed by Hurricane Rita in 2005.	4
FEMA	Hopedale Hydrological Structure	PW-8743	HR	FEMA	ST BERNARD	N/A	N/A	2007	$64,900	This FEMA project consists of repairs to the water control structure of the Hopedale Hydrologic Restoration (PO-24) project that was damaged by Hurricane Katrina in 2005. Repairs were made to damaged fencing, railings, and displaced riprap, and a lost portable hydraulic actuator is being replaced.	1
FEMA	Lake Pontchartrain Debris Removal	N/A	N/A	N/A	JEFFERSON, ORLEANS, ST CHARLES, ST JOHN THE BAPTIST, ST TAMMANY,	N/A	N/A	2010	$10,000,000	The goal of this project was to remove debris from aproximately 758 square miles of Lake Pontchartrain.	1
FEMA	Montegut Wetlands	PW-1728	MM	FEMA	TERREBONNE	N/A	N/A	2005	$1,093,962	This FEMA project repaired damage to the Montegut Wetland (TE-01) project that occurred during Hurricane Lili 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	HP	USACE	ST CHARLES, ORLEANS, JEFFERSON, PLAQUEMINES	N/A	71	Pending	$3,150,000,000	The project is currently designed to provide 100 Year protection levels to the project area through the construction of levees to the 2011 protection levels and T-Walls and other structures to the 2057 protection levels.	2
HSDRRS	New Orleans to Venice	BA-0067	HP	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 Guardian (TFG) Continuing Projects P13- 15, P17, and P24 that includes the section of the Plaquemines Parish Hurricane Protection System.	1,2
HSDRRS	Grand Isle and Vicinity	BA-0073	SP	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 offshore breakwater system.	2
HSDRRS	Storm-Proofing of Interior Pumping Stations	BA-0074	FP	USACE	JEFFERSON, ORLEANS	N/A	N/A	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	N/A	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	N/A	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 Hurricane Risk Reduction project. It provides for about 101 acres of marsh creation and 122 acres of marsh nourishment on the south shore of the Pen.	2
HSDRRS	Previously Authorized Mitigation WBV	BA-0154	MM, VP, PP	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 mitigation, including: 1) acquisition, improvement, and management of approximately 128 acres of BLH wetland habitat adjacent to Bayou Segnette State Park, 2) acquisition of approximately 970 acres of high value wooded wetlands in St. Charles Parish, and 3) acquisition, improvement, and management of approximately 350 acres of high quality wooded lands in St. Charles Parish.	2
HSDRRS	Plaquemines TFU Mitigation - Braithwaite to Scarsdale - Big Mar	BA-0156	MC	USACE	PLAQUEMINES	24	N/A	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 acres of Marsh. Additionally, Plaquemines Parish will be combining a neighboring local project of 16 acres of marsh creation to this project with supplemental funding for a total of 40 acres.	1
HSDRRS	New Orleans to Venice Mitigation - Plaquemines Non-Federal	BA-0158	MC	USACE	PLAQUEMINES	342	N/A	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 mitigation, which includes approximately 50 acres of BLH wet/dry combined, 50 acres of swamp, 60 acres of freshwater marsh, and 20 acres of brackish marsh.	2, 1
HSDRRS	New Orleans to Venice Mitigation - Federal	BA-0159	MC	USACE	PLAQUEMINES	410	N/A	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 mitigation, which includes approximately 130 acres of BLH wet/dry combined, 140 acres of intermediate marsh, 70 acres of freshwater marsh, 76 acres of brackish marsh, and 280 acres of saline marsh.	2, 1

ONGOING PROTECTION AND RESTORATION SUMMARIES

CPRA Program	Name	State Project Number	Project Type	Federal Sponsor	Parish	Acres Benefited	Miles of Levee Improved	Construction Completion	Total Budget	Project Description	Planning Unit
HSDRRS	Risk Reduction Via Modification to the Caernarvon Freshwater Diversion	BS-0003-B	FD, SD, HP	USACE	PLAQUEMINES	65	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 Hurricane Risk Reduction project. It provides for redirecting water from the Caernarvon Diversion into the 40 Arpent Canal to enhance the movement of fresh, sediment-laden water into the marsh north of Lake Lery in order to halt and reverse marsh deterioration. This project was originally included as a shunt under CWWPRA BS-16 but removed to allow USACE to fund it as a marsh creation project.	1
HSDRRS	Lake Pontchartrain & Vicinity, Lake Borgne Surge Barrier LPV-IHNC-02	PO-0055	HP	USACE	ST BERNARD, ORLEANS	N/A	2	2013	$1,134,000,000	This project involves the construction of a Hurricane Surge Barrier across the tip of Lake Borgne connecting the MRGO levees south of Bayou Bienvenue with the GIWW levees East of Michoud Canal with floodgates at Bayou Bienvenue and GIWW.	1
HSDRRS	SELA	PO-0057	OT	USACE	JEFFERSON, ORLEANS	N/A	N/A	Pending	$1,170,974,586	This project consists of drainage and pump station projects within Jefferson Parish and Orleans Parish, on both the east bank and west bank of the Mississippi River.	1,2
HSDRRS	Permanent Closure of Canals and Pumps	PO-0060	HP	USACE	ORLEANS, JEFFERSON	N/A	0.34	Pending	$614,800,000	This project, authorized under Public Law 109-234, involves the design and construction of a permanent protection system for the outfall canals along 17th Street, Orleans Avenue, and London Avenue and install pumps and closure structures at or near the lakefront.	1
HSDRRS	West Shore Lake Pontchartrain	PO-0062	HP	USACE	ST JOHN THE BAPTIST, ST CHARLES, ST JAMES, ASCENSION	N/A	27	Pending	$898,584,586	This project involves the assessment of hurricane and storm reduction measures in a study area bounded by the Bonnet Carre Spillway to the east, The Mississippi River to the south, Lakes Pontchartrain and Maurepas to the north, and the St. James Parish/Ascension Parish line to the west.	1
HSDRRS	Lake Pontchartrain and Vicinity	PO-0063	HP	USACE	ST CHARLES, JEFFERSON	N/A	128	2010	$3,852,000,000	Lake Pontchartrain and Vicinity (LPV) is the hurricane protection program that involves approximately 30 hurricane protection projects in East Jefferson and St. Charles Parishes.	1
HSDRRS	Lake Pontchartrain & Vicinity, Seabrook Lock LPV-IHNC-01	PO-0064	HP	USACE	ORLEANS	N/A	0.5	2012	$157,156,414	This project consists of a gate closure structure across the Industrial Canal approximately 500 ft South of the Ted Hickey Bridge at Lake Pontchartrain to work in conjunction with the IHNC Borgne Surge Barrier.	1
HSDRRS	HSDRRS Mitigation- LPV	PO-0121	MC	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 Pontchartrain and Vicinity (LPV) project.	1
HSDRRS	LPV Task Force Guardian Mitigation- Bayou Sauvage	PO-0145	MM, VP	USACE	ORLEANS	58	N/A	Pending	$780,000	This project is being led by USACE and is 100% federally funded with approximately $2 Million allocated. This project is mitigating approximately 147 acres due to emergency levee work that utilized 2 borrow pits of about 57 acres. It provides for the elimination of non-native trees with spraying and mechanical clearing, and then the replanting of up to 89,000 trees and shrubs of native species, including butternuts, pecans, cypresses and oaks.	1
HSDRRS	Previously Authorized Mitigation LPV- Manchac	PO-0146	MC, SP	USACE	ST JOHN THE BAPTIST	1329	N/A	Pending	$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 dikes with rock and fill areas with dredge material (to match the CPRA Turtle Cove project success). The project is intended to create marsh and reduce erosion.	1
LOUISIANA COASTAL AREA	LCA Small Bayou Lafourche Reintroduction	BA-0070	FD	USACE	ASSUMPTION, LAFOURCHE	N/A	N/A	Pending/On Hold	$133,500,000	The project will use a small diversion (less than 5000 cfs) to reintroduce flow from the Mississippi River into Bayou Lafourche. Project goals include providing freshwater, sediment and nutrients needed to reduce salinity, stimulating plant productivity, and reducing wetland loss between Bayous Lafourche and Terrebonne. Funds from the budget surplus of 2008 will be used for the state's cost-share requirement. *Construction cost taken from WRDA 2007 legislation.	3A
LOUISIANA COASTAL AREA	LCA Medium Diversion with Dedicated Dredging at Myrtle Grove	BA-0071	FD	USACE	PLAQUEMINES	N/A	N/A	Pending/On Hold	$278,300,000	Authorized by WRDA 2007 as a sediment diversion between 2,500 and 15,000 cfs. Ongoing modeling effort to examine potential for modification of the WRDA authority for a larger sediment diversion to promote infilling of shallow open water areas through deposition and marsh expansion. *Fully funded Phase 2 cost taken from WRDA 2007 legislation.	2
LOUISIANA COASTAL AREA	LCA Modification of Davis Pond Diversion	BA-0072	FD	USACE	ST CHARLES, JEFFERSON, PLAQUEMINES, LAFOURCHE	N/A	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 Barataria Basin.	2
LOUISIANA COASTAL AREA	LCA Modification of Caernarvon Diversion	BS-0019	FD	USACE	ST BERNARD, PLAQUEMINES	N/A	N/A	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 increase wetland restoration outputs south of Caernarvon, west of the Mississippi River.	1
LOUISIANA COASTAL AREA	LCA Medium Diversion at White's Ditch	BS-0020	FD	USACE	PLAQUEMINES	N/A	N/A	Pending/On Hold	$126,686,400	A medium diversion from the Mississippi River into the central River aux Chenes area using a controlled structure to provide additional freshwater, nutrients, and fine sediment to the area between the Mississippi River and River aux Chenes ridges.	1
LOUISIANA COASTAL AREA	LCA Barataria Basin Barrier Shoreline - 2007	LA-0010	MC, BH	USACE	JEFFERSON, PLAQUEMINES, LAFOURCHE	N/A	N/A	Pending/On Hold	$363,900,000	The purpose of this project is to provide beach/dune restoration and marsh creation on Caminada Headlands and Shell Island.	2
LOUISIANA COASTAL AREA	LCA Beneficial Use Feasibility Study	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
LOUISIANA COASTAL AREA	LCA Mississippi River Delta Management Study	MR-0016	OT	USACE	PLAQUEMINES	N/A	N/A	Pending/On Hold	$25,358,136	This project involves the development of a strategic framework for feasibility evaluation of improved management of fresh water, nutrients, and sediment resources of the Lower Mississippi River, from the Old River Control Structure to Head of Passes, to better sustain its Deltaic Plain.	1, 2
LOUISIANA COASTAL AREA	Small Diversion at Hope Canal	PO-0067	FD	USACE	ST JOHN THE BAPTIST	N/A	N/A	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 facilitate organic deposition, improve biological productivity, and prevent further deterioration 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 si the the projected cost estimates.	1
LOUISIANA COASTAL AREA	LCA Small Diversion at Convent / Blind River	PO-0068	FD	USACE	ST JAMES, ASCENSION	N/A	N/A	Pending/On Hold	$123,140,000	This project evaluates a small diversion of up to 5,000 cfs from the Mississippi River into the Blind River through a new control structure to introduce freshwater, sediments, and nutrients into the southeast portion of the Maurepas swamp.	1
LOUISIANA COASTAL AREA	LCA Amite River Diversion Canal Modification (Transferred)	PO-0069	VP, HR	USACE	LIVINGSTON, ASCENSION	N/A	N/A	Transferred	$10,760,000	The goal of this project is to reestablish hydrologic connectivity between Maurepas Swamps and natural waterbodies. The project was transferred from the LCA program and is being implemented as State project PO-142.	1
LOUISIANA COASTAL AREA	LCA Maintain Land Bridge Between Caillou Lake and Gulf of Mexico	TE-0067	MC	USACE	TERREBONNE	N/A	N/A	Pending/On Hold	$62,600,000	The goals of this project are to prevent connection between the gulf and Caillou Lake by constructing shoreline protection on the gulf and Grand Bayou du Large, marsh creation, and closure of newly opened channels and to minimize saltwater intrusion, prevent gulf shore erosion and increase freshwater influence on marshes in project area.	3A
LOUISIANA COASTAL AREA	LCA Point Au Fer	TE-0068	SP	USACE	TERREBONNE	N/A	N/A	Pending/On Hold	$48,300,000	The goal of the project is to stabilize gulf shoreline of Point Au Fer Island to prevent direct connection between gulf and interior water bodies thereby preventing conversion of existing wetlands to marine habitat.	3A
LOUISIANA COASTAL AREA	LCA Terrebonne Basin Barrier Shoreline Restoration	TE-0070	BH	USACE	TERREBONNE	N/A	N/A	Pending/On Hold	$133,300,000	This project provides for the restoration of the Timbalier and Isles Dernieres barrier island chains. This would simulate historical conditions by reducing the current number of breaches, enlarging (width and dune crest) of the Isles Dernieres (Raccoon Island, East Island, Trinity Island, Wine Island, and Whiskey Island),Timbalier Island, and East Timbalier Island.	3A
LOUISIANA COASTAL AREA	LCA Convey Atchafalaya River Water to Northern Terrebonne Marshes	TE-0071	HR	USACE	TERREBONNE	N/A	N/A	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 (GIWW).	3A
NFWF	Caminada Headland Beach and Dune Restoration Increment 2	BA-0143	BH	N/A	JEFFERSON, LAFOURCHE	532	N/A	Pending	$147,063,587	This project will restore and protect beach and dune habitat across the Caminada Headland through the direct placement of approximately 5.4 million cubic yards of sandy material from Ship Shoal (an offshore borrow source). The project footprint begins near Bayou Mareau and extends approximately 9 miles east towards Caminada Pass. A total of 489 acres of beach and dune habitat will be restored.	2
NFWF	Mid-Barataria Diversion	BA-0153	SD	N/A	PLAQUEMINES	68,000	N/A	Pending	In Development	The MBSD is a large and complex civil works and restoration project. MBSD, when in operation, would transfer sediment-laden water from the Mississippi River through a self-contained channel roughly 1.5 miles long, before outfalling past the back levee into mid-Barataria Basin. The project will restore the natural deltaic and sedimentation processes along the Mississippi River near River Mile 60.7 just north of Ironton. The MBSD would be expected to build and nourish ten to thirty thousand acres of critical coastal wetlands over a 50 year period, being a top contributor to the 2012 Master Plan's goal of achieving no net loss of land in the future.	2

ONGOING PROTECTION AND RESTORATION SUMMARIES

CPRA Program	Name	State Project Number	Project Type	Federal Sponsor	Parish	Acres Benefited	Miles of Levee Improved	Construction Completion	Total Budget	Project Description	Planning Unit
NFWF	Lower Barataria Diversion	BA-0163	SD	N/A	PLAQUEMINES	In Development	N/A	N/A	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 reestablish deltaic processes in order to build, sustain, and maintain wetlands. The project intends to build a sediment diversion in the lower Barataria Bay in the vicinity of Empire around 50,000 cfs capacity.	2
NFWF	Lower Breton Diversion	BS-0023	SD	N/A	PLAQUEMINES	In Development	N/A	N/A	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 reestablish deltaic processes in order to build, sustain, and maintain wetlands. The project intends to build a sediment diversion in the lower Breton Sound in the vicinity of Black Bay around 50,000 cfs capacity.	1
NFWF	Mid Breton Diversion	BS-0025	DI	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
NFWF	Increase Atchafalaya Flow to Easter Terrebonne	TE-0110	SD	N/A	TERREBONNE	In Development	N/A	Pending	In Development	The purpose of the project is to utilize freshwater and sediment from the Atchafalaya River in order to build, sustain, and maintain wetlands within the Terrebonne Basin. The project intends to dredge the GIWW east of the Atchafalaya and install a bypass structure at Bayou Boeuf Lock to increase freshwater and sediment flows from Atchafalaya River to Terrebonne marshes.	3A, 3B
NFWF	East Timbalier Island Restoration	TE-0118	BH	N/A	LAFOURCHE	In Development	N/A	Pending	$74,000,000	This project will engineer and design a restoration of dune, supratidal, and intertidal habitat, such that the two presently remaining, severely degraded island segments will be reconnected and the historic island footpring re-established, which will improve bird and fish habitat, help protect oil and gas infrastructure, and provide hurricane surge protection for western Lafourche Parish.	3A
NRDA	Cheniere Ronquille Barrier Island Restoration	BA-0076	BH, MC	NMFS	PLAQUEMINES	408	N/A	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	BH	N/A	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 reestablish productive habitat to Bastian Bay and the surrounding area. It will create 328 acres of marsh and 372 acres of dune and beach.	2
NRDA	Lake Hermitage Marsh Creation Increment 2	BA-0141	MC	N/A	PLAQUEMINES	101	N/A	2014	$139,000,000	This project will create 101 acres of marsh building off of the BA-42 Lake Hermitage CWPPRA project utilizing NRDA early restoration funds.	2
NRDA	NRDA Caillou Lake Headlands	TE-0100	BH	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.	3a
OTHER	Lake Pontchartrain Mitigation Project	HPL-MIT	SP	N/A	ST JOHN THE BAPTIST	600	N/A	1996	$2,222,892	This project consisted of a near-shore, segmented brakwater system in Lake Pontchartrain parallel to a five-mile reach of the Manchac Wildlife Management Area. The project specifically mitigated for damages resulting from construction of the Lake Pontchartrain Hurricane Protection project.	1
OTHER	Coastal Wetlands Public Outreach	N/A	OT	N/A	N/A	N/A	N/A	N/A	$400,000	The DNR Public Information Office provides a cariety of printed materials, educational videos and cds, fact sheets, website information, and a traveling wetlands exhibit for the public. Other department outreach efforts include participating in conferences, workshops, civic events, and school activities. Much of the agency's educational outreach is in partnership with the Breaux Act Task Force committees and the America's WETLAND campaign. As a result of workingw ith several noted authors, writers and reporters, the Public Information Office has contributed to the publishing of hundreds of national articles over the past years. To contact the Louisiana Department of Natural Resources' Public Information Office online----info@dnr.state.la.us.	COASTWIDE
RESTORE	River Reintroduction into Maurepas Swamp	PO-0029	FD	EPA	ST JOHN THE BAPTIST, ST JAMES	36121	N/A	Pending	$147,028,735	This project intends to restore a natural hydrologic regime and increase nutrient inputs in cypress-tupelo swamp tracts south of Lake Maurepas through the diversion of Mississippi River water into an area of degraded swamp. The project was originally proposed under CWPPRA but underwent subsequent development as a State-only project.	1
RESTORE	Calcasieu Ship Channel Salinity Control Measures	CS-0065	HR	N/A	CAMERON	In Development	N/A	Pending	In Development	The purpose of the project is to manage salinities being introduced into adjacent water bodies through the Calcasieu Ship Channel to reduce the rate of wetland loss in the surrounding wetlands. The project intends to construct features to prevent saltwater from entering wetlands adjacent to Calcasieu Lake through the Calcasieu Ship Channel. Measures would control salinity spikes and would be constructed in a manner that would allow for the continued functioning and ideally improvement and increased viability of the Calcasieu Ship Channel and the Port of Lake Charles.	4
RESTORE	Houma Navigation Canal Lock Complex	TE-0113	HR	N/A	TERREBONNE	In Development	N/A	Pending	In Development	The Houma Navigation Canal Lock Complex (TE-113) is a part of the Morganza to the Gulf of Mexico Hurricane Protection Project. The structure will provide storm surge protection, increase freshwater distribution, and provide navigation along the Houma Navigation Canal. The initial step is to meet with stakeholders to 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	N/A	DM	USACE	PLAQUEMINES	26	N/A	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	DM	USACE	PLAQUEMINES	N/A	N/A	1999	$150,000	This Section 204 project utilized material from maintenance dredging activities along the Mississippi River Gulf Outlet (MRGO) to nourish the littoral system that feeds Breton Island.	1
SECTION 204/1135	Mississippi River Gulf Outlet Berm, Mile 14 to 11	N/A	DM	USACE	ST BERNARD	50	N/A	1999	$350,000	This Section 204 project provided for the unconfined placement of 3,468,901 cubic yards of material into shallow water adjacent to the south jetty at about mile 15.3. The material was dredged from miles 14.0 to 11.0 of the Mississippi River Gulf Outlet (MRGO) navigation channel and placed to an elevation conducive to marsh vegetation establishment.	1
SECTION 204/1135	Mississippi River Gulf Outlet, Mile 14 to 12 (2002)	N/A	DM	USACE	ST BERNARD	50	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 Hurricane Lili and Tropical Storm Isidore in 2002.	1
SECTION 204/1135	Mississippi River Gulf Outlet, Mile 14 to 12 (2003)	N/A	DM	USACE	ST BERNARD	113	N/A	2003	$580,000	This project involved pumping 4.3 million cubic yards of sediments to create 113 acres of marsh. The material was dredged from miles 14.0 to 12.0 of the Mississippi River Gulf Outlet (MRGO) navigation channel and placed at an elevation conducive to marsh vegetation establishment.	1
SECTION 204/1135	Barataria Bay Waterway, Mile 31 to 24.5	N/A	DM	USACE	JEFFERSON	125	N/A	1999	$140,000	This Section 204 project utilized dredged material taken from a zone between miles 31 and 24.5 of the Barataria Bay Waterway (BBWW) to create marsh habitat.	2
SECTION 204/1135	Barataria Waterway Grand Terre Island Ph 2	N/A	DM	USACE	JEFFERSON	80	N/A	2002	$100,000	This Section 204 project provided for the beneficial placement of 500,000 cubic yards of material dredged from the Barataria Bay Waterway (BBWW) to create wetlands on the bay side of Grand Terre Island.	2
SECTION 204/1135	Calcasieu River and Pass (Sabine NWR) Phase I, II, III	N/A	DM	USACE	CAMERON	480	N/A	1999	$1,560,804	This Section 204 project provides for the disposal of dredged material removed from the area between mile 7.5 and 11.5 of the Calcasieu Ship Channel. A total of 4 million cubic yards of material was deposited in three phases within the Sabine National Wildlife refuge at an elevation conducive to marsh creation.	4
SECTION 204/1135	Wine Island Restoration	DSR-81558	DM	USACE	TERREBONNE	37	N/A	1991, 2003	$1,007,000	This Section 204/1135 project was a cooperative effort with the USACE and included the use of beneficial dredging from a scheduled Houma Navigational Canal maintenance dredging project to restore Wine Island.	3A
SECTION 204/1135	Barataria Bay Waterway, Grand Terre Island (Phase I)	N/A	DM	USACE	JEFFERSON	115	N/A	1996	$1,370,000	This Section 204 project provides for the beneficial placement of 500,000 cubic yards of dredged material from the Barataria Bay Waterway (BBWW) to create wetlands on Grand Terre Island.	2
SECTION 204/1135	Houma Navigation Canal, Wine Island Barrier Island Restoration	N/A	DM	USACE	TERREBONNE	50	N/A	2002	$1,000,000	This Section 204/1135 project investigated the feasibility of beneficially using the dredged material from the bar channel area in lieu of the Ocean Dredged Material Disposal Site. The project area is approximately 35 miles south of Houma, Louisiana at the mouth of the navigation channel in Terrebonne Bay. The construction schedule of this project was expedited due to the impact of Hurricane Lili and Tropical Storm Isadore.	3A
SECTION 204/1135	Brown Lake	N/A	MC, DM	USACE	CAMERON	315	N/A	1999	$1,132,435	The project will restore, to the extent possible, the natural hydrology of the area. A reduction in marsh loss and improved water conditions are expected to occur following project implementation. Long-term water management objectives will be directed towards maintaining a brackish marsh system.	4
STATE	Alexandria to the Gulf	AT-0012	OT	N/A	RAPIDES	N/A	N/A	N/A	$970,000	This feasibility study is intended to evaluate options and alternates for providing urban drainage and flood reduction to the City of Alexandria and irrigation and flood reduction benefits to agricultural areas south and southeast of the city.	3B
STATE	Atchafalaya Basin Natural Resources Inventory and Assessment	AT-0013	OT	N/A	ST MARY, IBERIA, ST MARTIN	N/A	N/A	N/A	$1,450,000	This project assesses and inventories the natural resources in the Atchafalaya Swamp.	3B
STATE	Naomi Siphon Diversion	BA-0003	FD	N/A	PLAQUEMINES, JEFFERSON	8200	N/A	1992	$9,602,381	This project involved the construction of eight parallel siphons to divert water from the Mississippi River into the adjacent wetlands near Naomi, Louisiana. The maximum discharge of the siphons is 2,100 cfs.	2

ONGOING PROTECTION AND RESTORATION SUMMARIES

CPRA Program	Name	State Project Number	Project Type	Federal Sponsor	Parish	Acres Benefited	Miles of Levee Improved	Construction Completion	Total Budget	Project Description	Planning Unit
STATE	West Pointe a la Hache Siphon Diversion	BA-0004	FD	N/A	PLAQUEMINES	9200	N/A	1992	$9,845,693	This project involved the construction of eight parallel siphons to divert water from the Mississippi River into the adjacent wetlands on the west side of the river near Pointe a la Hache, Louisiana. The maximum discharge of the siphons is 2,100 cfs.	2
STATE	Queen Bess	BA-0005-B	SP, DM	N/A	JEFFERSON	145	N/A	1993	$1,475,176	The purpose of this project is to restore Queen Bess Island as a brown pelican (Pelecanus occidentalis) rookery. Dredged material was added to the island to increase its size in 1991, and a rock dike was installed around the perimeter of the original island in 1992 to armor the shoreline. The area has become vegetated and the number of pelican nests on the island increased after project construction.	2
STATE	Baie de Chactas	BA-0005-C	SP	N/A	ST CHARLES	130	N/A	1990	$175,000	Approximately 300,000 pounds of crushed oyster shell were placed on 7,400 feet of shoreline to restore the physical integrity of the marsh shoreline separating Lake Salvador and Baie de Chactas and Baie du Cabanage.	2
STATE	Lake Salvador Shoreline Protection Extension	BA-0015-X1	SP	N/A	ST CHARLES	2035	N/A	2005	$4,840,344	The purpose of this project is to build a rock dike that will protect the marsh shoreline along the northeastern portion of Lake Salvador. The shoreline protection project was built on the land to avoid dredging in an area with cultural resources. This project was designed as an extension of the BA-15 Phase II CWPPRA project.	2
STATE	Bayou Segnette	BA-0016	SP	N/A	JEFFERSON	88	N/A	1994, 1998	$1,373,151	This project involved the construction of a 6,800-foot limestone rock berm to reinforce the bank between Lake Salvador and Bayou Segnette and the installation of a timber piling fence across an abandoned access canal that connects the two water bodies. The fence is designed to reduce wave energies and erosive forces from the lake while still allowing exhange of sediment and aquatic organisms. Additional CWPPRA funds were appropriated for the design of this state-funded project. Maintenance of this project was necessary in the 1998-1999 fiscal year at a cost of $300,000.	2
STATE	Bayou Lafourche Freshwater Introduction	BA-0025	FD	N/A	LAFOURCHE	Not Available	N/A	2011	$20,000,000	The Mississippi River diversion into Bayou Lafourche will restore coastal marshes and provide drinking water to over 300,000 residents. This project funded the dredging of the fist 6.2 miles of the bayou to accommodate a proposed increased flow of 1,000 cfs.	2
STATE	Plaquemines Parish - Southeast Louisiana Strategic Restoration	BA-0046-SF	MC	N/A	PLAQUEMINES	N/A	N/A	N/A	$4,500,000	This project provided State funding to supplement a Plaqumines Parish dredging design project.	2
STATE	Jean Lafitte Tidal Protection	BA-0075-1	HP	N/A	JEFFERSON	N/A	2.9	Pending	$15,730,000	This project will provide flood protection improvements by raising 15,840 linear feet of existing earthen levee. The project will also include approximately 7600 liner feet of concrete capped, steel sheet pile floodwall and flood gates to 8.0 NAVD.	2
STATE	Rosethorne Tidal Protection	BA-0075-2	HP	N/A	JEFFERSON	N/A	5.3	Pending	$20,500,000	This project will provide flood protection improvements consisting of new earthen levees, approximately 8,010 linear feet of reinforced concrete floodwall and flood gates to 8.0 NAVD.	2
STATE	St. Charles West Bank Hurricane Protection Levee	BA-0085	HP	N/A	ST CHARLES	N/A	9	Pending	$14,500,000	This project is a system of levees, drainage structures and pump stations being constructed to provide flood protection to the communities of St. Charles Parish on the West Bank of the Mississippi River.	2
STATE	Bayou LaFourche Salt Water Control Structure	BA-0091	OT	N/A	LAFOURCHE	N/A	N/A	Pending	$4,890,000	This project will allow salinity levels in Bayou Lafourche to be more effectively managed through operation of the saltwater control structure.	2
STATE	Grand Isle East End Breakwater/ Jetty Design	BA-0092	SP	N/A	JEFFERSON	N/A	N/A	N/A	$1,000,000	This project provided funding for the design of breakwaters/jetties work for Grand Isle State Park.	2
STATE	Donaldsonville to the Gulf of Mexico Hurricane Protection	BA-0115	HP	USACE	ASSUMPTION, JEFFERSON, LAFOURCHE, ST JOHN THE BAPTIST, ST CHARLES, ST JAMES	N/A	Not Available	Pending/On Hold	$10,269,987	The purpose of the project is to reduce the risk of flooding from coastal storm surge and rainfall to prevent further economix losses and environmental damage in the Barataria Basin. The project is currently in its feasibility study phase, during which various alternatives to areducing storm surge are being examined, the adequacy of the existing drainage system is being assessed, and cultural, environmental, and recreational issues are being identified. The scope is to study various alternatives that will provide flood protection from tidal, hurricane surges, and heavy rainfall events, detemine the adequacy of the existing interior drainage systems and evaluate whether additional pumping capacity is required, and analyze recreational, cultural, and environmental needs.	2
STATE	Grand Isle-Fifi Island Breakwaters	BA-0168	SP	N/A	JEFFERSON	Not Available	N/A	2015	$6,000,000	The project will construct breakwaters along the southwestern portion of Fifi Island to reduce erosion on Fifi Island and the bay side of Grand Isle in order to protect commercial and residential infrastructure, wetlands, and fisheries. The project includes renourishment of 1,450 feet of existing breakwaters to an elevation of 8 feet and construction of 1,450 feet of new breakwaters to an elevation of 8 feet.	2
STATE	Kraemer Bayou Boeuf Levee Lift	BA-0169	HP	N/A	LAFOURCHE	N/A	6	Pending	$1,000,000	This project will improve and raise approximately 33,000 feet of ring levees surrounding the Kraemer Community, a forced drainage area. The levees were not sufficient during Hurrican Isaac and overtopped.	2
STATE	Breach Management Plan	BA-0170	BH	N/A	JEFFERSON, LAFOURCHE, PLAQUEMINES, TERREBONNE	N/A	N/A	N/A	$7,106,511	This project involves the development of a system-wide program for handling breaching that occurs within the barrier island and headland system of the Louisiana coastline. The project will extend eastward from Raccoon Island to Scofield Island within the Terrebonne and Barataria Basins. The project will include development of identification, classification, and prioritization methodologies with recommendations for breach prevention and response measures. The project goals are to reverse landloss, increase sustainability of restoration projects, reduce operations and maintenance costs, and improve ecosystems	2, 3A
STATE	Barataria Large-Scale Component E-Planning	BA-0192	MC	N/A	PLAQUEMINES, JEFFERSON	8070	N/A	N/A	In Development	Creation of approximately 8,070 acres of marsh in the Barataria Basin to address the sites and placement at an elevation of 2.5 feet NAVD88 to create new wetland habitat; restore degraded marsh, and reduce wave erosion (component of 002.MC.05). Project involves components to be constructed in 1st and 2nd implementation periods.	2
STATE	Brannon Ditch	BD	SP	N/A	CALCASIEU	480	N/A	1991	$12,440	This project included the construction of wooden breakwater fences along 2,200 feet of the GIWW across from Brannon Ditch in Calcasieu Parish. This area has experienced shoreline erosion in excess of 25 feet/year. The breakwaters reduce wave action from boats and the current from Brannon Ditch during periods of high discharge. Smooth cordgrass (Spartina alterniflora) was also planted behind the breakwaters in order to enhance accretion and increase the stability of this site.	4
STATE	Brown Marsh	BRM-01	MC	N/A	LAFOURCHE	44	N/A	2002	$473,365	Project features consisted of a thin layer marsh creation/nourishment covering 44 acres in Lafourche Parish.	3A
STATE	Lake Lery Hydrologic Restoration	BS-0006	FD	N/A	ST BERNARD	100	N/A	1997	$1,000,000	This project involved the construction of a pumping station located along the south-central edge of the St. Bernard Parish Ridge. This will discharge collected rainfall into the marsh north of Lake Lery and help prevent saltwater intrusion. The project was built in partnership with the Lake Borgne Basin Levee District and was completed in May of 1997.	1
STATE	Cheniere Au Tigre	CAT-01	SP	BOEMRE	VERMILION	40	N/A	2005	$1,802,271	The primary objective of this project is to protect the Cheniere au Tigre shoreline from additional erosion and protect local infrastructure. The project used segmented rock breakwater structures to help reduce the rate of shoreline erosion and promote sediment deposition along the beach north of the breakwater structures. The proposed series of segmented breakwaters was placed just east of the CWPPRA funded TV-16 project with up to nine additional structures. The structures cover approximately 2,800 linear feet with an approximate distance of 240 feet from the existing shoreline.	3B
STATE	Holly Beach	CS-0001	SP	N/A	CAMERON	88	N/A	1991, 1992, 1993, 1994	$8,437,000	The objective of this project is to protect the marsh north of the Gulf of Mexico shoreline by expanding shoreline protection in phases from Ocean View, Louisiana to the east near Calcasieu Pass. A total of 34 breakwaters were constructed in 1991, 21 breakwaters were constructed in 1992, 21 breakwaters were constructed in 1993, and nine breakwaters were constructed in 1994 between Calcasieu Pass and Holly Beach, Louisiana. Eighteen of the existing breakwaters were raised and/or extended in 2003 utilizing marine mattress foundations and armor stone.	4
STATE	Rycade Canal Marsh Management	CS-0002	MM	N/A	CAMERON	6575	N/A	1994	$2,005,857	The project was designed to stabilize salinities and water levels by reducing water flows through Rycade canal and Black Lake.	4

ONGOING PROTECTION AND RESTORATION SUMMARIES

CPRA Program	Name	State Project Number	Project Type	Federal Sponsor	Parish	Acres Benefited	Miles of Levee Improved	Construction Completion	Total Budget	Project Description	Planning Unit
STATE	Cameron Creole Levee	CS-0004-A	HP	N/A	CAMERON	2602	N/A	2011	$12,600,000	The intent of this project is to provide for repair and maintenance of critical perimeter control structures around Calcasieu Lake and repairs to the Cameron-Creole Levee. These structures were severely damaged by Hurricane Rita.	4
STATE	Cameron-Creole Structure Automation	CS-0004-A-1	HR	N/A	CAMERON	N/A	N/A	1999	$700,000	This project consists of automating three existing water control structures along the east shore of Calcasieu Lake. These structures are remotely located and are difficult to manipulate. Automation of these structures will improve management capabilities in the Sabine National Wildlife Refuge.	4
STATE	Cameron Parish Shoreline Restoration	CS-0033	OT	N/A	CAMERON	523	N/A	2014	$45,800,000	The project involved the re-establishment of dunes and beachead for 8.7 miles extending from the western Calcasieu River Jetty to the eastern-most breakwater at the Holly Beach – Constance Beach breakwater field.	4
STATE	Black Lake Supplemental Beneficial Use Disposal Area	CS-0034	DM	USACE	CAMERON	440	N/A	2010	$21,034,329	The project beneficially used dredged sediment from maintenance dredging of the Calcasieu River Ship Channel from mile 14 thru mile 17 for delivery by sediment pipeline to the Black Lake/Marcantel Beneficial Use site.	4
STATE	Blind Lake	CS-BL	SP	N/A	CAMERON	480	N/A	1989	$173,433	The purpose of this project was to prevent the Gulf Intracoastal Waterway from breaching into Blind Lake. The project consisted of placing 2,339 linear feet of limestone breakwater along the south side of the GIWW adjacent to Blind Lake. The second phase of this project included planting giant cutgrass (Zizaniopsis miliacea) along the inside of the breakwater to enhance the accretion process.	4
STATE	Sabine Terraces	CS-ST	SNT	N/A	CAMERON	110	N/A	1990	$190,047	A total of 128 earthen terraces were constructed in a checkerboard pattern and planted with smooth cordgrass (Spartina alterniflora) in open water areas of the Sabine National Wildlife Refuge. The project's objective was to increase the length of marsh-water interface, re-establish emergent marsh vegetation, reduce marsh fringe retreat by reducing wind-generated wave energy, increase overall primary productivity, and promote the deposition of suspended sediment.	4
STATE	Fisheries Habitat Restoration on West Grand Terre Island at Fort Livingston	FTL-01	SP	N/A	JEFFERSON	Not Available	N/A	2003	$2,076,816	This project consists of a rock dike built to protect the Gulf 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.	2
STATE	Grand Isle Bay Side Breakwaters	GIBSB	SP	N/A	JEFFERSON	50	N/A	1995	$500,000	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.	2
STATE	Dedicated Dredging Program - Lake Salvador	LA-0001-A	MC, DM	N/A	ST CHARLES	28	N/A	1999	$342,276	Two sites were filled utilizing dredged material adjacent to Baie du Cabanage on the Salvador Wildlife Management Area. This project is part of the coastwide 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 and/or rebuild threatened coastal marshes adjacent to the waterways.	2
STATE	Dedicated Dredging Program - Bayou Dupont	LA-0001-B	DM, MC	N/A	JEFFERSON	66	N/A	2000	$1,080,017	Three sites were filled utilizing dredged material adjacent to Bayou Dupont and The Pen. This project is part of the coastwide 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 and/or rebuild threatened coastal marshes adjacent to the waterways.	2
STATE	Pass a Loutre Site - Dedicated Dredging Program	LA-0001-C	DM	N/A	PLAQUEMINES	26	N/A	2005	$450,000	The project created approximately 26 acres of sustainable freshwater marsh in the vicinity of Pass a Loutre, Louisiana. This project is part of the coastwide 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 and/or rebuild threatened coastal marshes adjacent to the waterways.	1
STATE	Terrebonne School Board Site - Dedicated Dredging	LA-0001-D	DM	N/A	TERREBONNE	40	N/A	2006	$2,599,587	This project created approximately 40 acres of marsh just north of Lake DeCade along the western bank of Minors Canal. This project is part of the coastwide 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 and/or rebuild threatened coastal marshes adjacent to the waterways.	3B
STATE	Grand Bayou Blue Site - Dedicated Dredging	LA-0001-E	DM, MC	N/A	LAFOURCHE	38	N/A	2007	$1,831,534	This project created approximately 38 acres of marsh near Catfish Lake using dredged material from Grand Bayou Blue. This project is part of the coastwide 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 and/or rebuild threatened coastal marshes adjacent to the waterways.	3A
STATE	Dedicated Dredging - Point au Fer	LA-0001-F	DM	N/A	TERREBONNE	67	N/A	2007	$2,469,250	This project created approximately 67 acres of marsh on Point Au Fer Island adjacent to the CWPPRA TE-26 project using material dredged from Atchafalaya Bay. This project is part of the coastwide 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 and/or rebuild threatened coastal marshes adjacent to the waterways.	3B
STATE	Southwest Coastal Louisiana Feasibility Study	LA-0020	DM, TE, SP, MC	USACE	CALCASIEU, VERMILION,	In Development	In Development	Pending	$8,800,000	The project integrates ecosystem restoration and hurricane protection alternatives to address the coastal issues of Southwest Louisiana. It includes shoreline stabilization, marsh creation, salinity control, hurricane protection, and chenier restoration measures. Project was	4
STATE	Sabine Cycle 2	LA-0021-1	DM	N/A	CAMERON	227	N/A	2010	$6,600,000	The purpose of this project is to cover the cost of marsh fill for the Sabine Refuge Marsh Creation, Cycle 2 Breaux Act project.	4
STATE	MAS1 - Management	LA-0211	OT	N/A	COASTWIDE	N/A	N/A	N/A	$200,000	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.	3B
STATE	Sediment Diversion Implemenation and Program Management	LA-0276	DI	N/A	JEFFERSON, LAFOURCHE, PLAQUEMINES, St	N/A	N/A	N/A	In Development	This project wil include all work involved in the development of the Diversion Management program. This will be performed by CPRA personnel and CH2M and will initially result in the development of full E&D scopes for both the Mid-Barataria and Mid-Breton diversons.	1
STATE	Pecan Island Freshwater Introduction	ME-0001	FD	N/A	VERMILION	39000	N/A	1992	$487,152	The purpose of this project is to introduce freshwater from the north to counteract the saltwater intrusion from the south. The project consists of two water control structures and approximately 5,700 linear feet of earthen embankment needed to channel water from White Lake to the south marshes.	4
STATE	Marsh Creation Near Freshwater Bayou	ME-0025-SF	MC	N/A	VERMILION	96	N/A	2015	$5,700,000	The purpose of this project is to create 96 acres of marsh southeast of intersection of Acadiana Canal and Freshwater Bayou.	4
STATE	Small Sediment Diversions	MR-0001-B	SD	N/A	PLAQUEMINES	6719	N/A	1993	$1,010,500	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.	1
STATE	North Grand Isle Breakwaters	NGI	SP	N/A	JEFFERSON	50	N/A	1995	$160,000	This project was authorized to construct segmented rock breakwaters on the bay side of Grand Isle to protect camps located between Caminada Bay and the west side of Louisiana Hwy 1. The Louisiana Department of Natural Resources (LDNR) contributed no construction funds and was involved in construction inspection only. The local Levee District supplied construction funds.	2
STATE	Violet Siphon Diversion	PO-0001	FD	N/A	ST BERNARD	84	N/A	1992	$380,584	The purpose of this project is to return into operation the existing siphon, and to enlarge the size of the diversion so that more sediment and freshwater are available to offset marsh subsidence and saltwater intrusion.	1
STATE	Bayou Chevee	PO-0002-C	SP	N/A	ORLEANS	75	N/A	1994	$62,000	This project installed 2,000 feet of brush fences at the mouth of Bayou Chevee.	1
STATE	LaBranche Shoreline Stabilization and Canal Closure	PO-0003	SP	N/A	ST CHARLES	1750	N/A	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.	1
STATE	LaBranche Shoreline Protection	PO-0003-B	SP	N/A	ST CHARLES	50	N/A	1996	$1,290,851	A rock breakwater was constructed along the Lake Pontchartrain shoreline, east of Bayou LaBranche, to protect the hydrologic boundary between the lake and the wetlands from being breached.	1
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 (PO-01).	1
STATE	Turtle Cove Shore Protection	PO-0010	SP	N/A	ST JOHN THE BAPTIST	184	N/A	1994	$366,000	This project involved the construction of a 1,640 foot rock-filled gabion breakwater to maintain and protect the Lake Pontchartrain shoreline that shelters “The Prairie” (an 800-acre expanse of shallow, open water marsh bordered by organic freshwater marsh) from high wave energies and to encourage sediment deposition behind the gabion structure. An additional $195,600 was used for maintenance in 2001.	1

ONGOING PROTECTION AND RESTORATION SUMMARIES

CPRA Program	Name	State Project Number	Project Type	Federal Sponsor	Parish	Acres Benefited	Miles of Levee Improved	Construction Completion	Total Budget	Project Description	Planning Unit
STATE	MRGO Closure Structure	PO-0038-SF	OT	USACE	ST BERNARD	2343	N/A	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 interior marsh via the channel. Project implementation was 100% Federal; the State acquired Real Estate interests for structure and is responsible for O&M activities.	1
STATE	St. Bernard Parish 40 Arpent Levee Repairs	PO-0061	HP	N/A	ST BERNARD	N/A	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.	1
STATE	Biloxi Marsh	PO-0072	SP	N/A	ST BERNARD	300	N/A	2014	$22,000,000	This project involved the construction of approximately four miles of shoreline protection along the southeastern shoreline of Lake Borgne.	1
STATE	North Shore Hurricane/Flood Protection and Restoration Plan	PO-0074	OT	N/A	ST TAMMANY, TANGIPAHOA	N/A	N/A	N/A	$1,271,898	This project involves the development of a hurricane protection plan for the North Shore.	1
STATE	MRGO and Lake Borgne (Bayou Dupre Segment)	PO-0093	SP	USACE	ST BERNARD	N/A	N/A	Pending	Not Available	This project will construct approximately 17,650 linear feet of stone foreshore dike along the southwest shoreline of Lake Borgne in the vicinity of Bayou Dupre. CPRA is acquiring portions of the two oyster leases that are impacted by this project.	1
STATE	MRGO and Lake Borgne (Bayou Bienvenue Segment)	PO-0094	SP	USACE	ST BERNARD	N/A	N/A	Pending	Not Available	This project will construct approximately 14,440 linear feet of stone foreshore dike 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.	1
STATE	MRGO and Lake Borgne (Shell Beach Segment)	PO-0095	SP	USACE	ST BERNARD	N/A	N/A	Pending	Not Available	This project will construct approximately 15,700 linear feet of stone foreshore dike 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.	1
STATE	MAS2 - Outreach	PO-0129	OT	N/A	JEFFERSON, ORLEANS,	N/A	N/A	N/A	$266,670	The objective of this project is to support the release by the Federal Emergency Management Agency (FEMA) of a Digital Flood Insurance Rate Map (DFIRM) and Flood Insurance Study (FIS) report, for the Greater New Orleans area.	1
STATE	Hydrologic Restoration of the Amite River Diversion Canal	PO-0142	HR, VP	N/A	ASCENSION, LIVINGSTON	1600	N/A	Pending	$3,592,100	The purpose of this project is to reestablish hydrologic connectivity between Maurepas Swamps and natural waterbodies; plant vegetation in highly degraded swamp habitat.	1
STATE	South Slidell Ring Levee	PO-0167	HP	N/A	ST TAMMANY	N/A	1.1	Pending	$6,000,000	Segment 6 runs from the Lakeshore Estates Ring Levee to Hwy 433. This will be an earthen levee about 1100' long. Segment 7 runs from Hwy 433 to the Kings Point Ring Levee. It will include Hwy 433 in addition to the creation of an earthen levee 4700' long.	1
STATE	Violet Canal North Levee Alignment	PO-0170	HP	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 within the territorial jurisdictions of OLD and LBBLD. The floodwall is required for the certification of the Forty Arpent and Florida Avenue levee systems located in Orleans Parish and St. Bernard Parish.	1
STATE	Fontainebleau State Park Mitigation	PO-4355NP4	SP	N/A	ST TAMMANY	6	N/A	1999	$476,104	This project repaired a section of breached shoreline by depositing approximately 9,000 cubic yards of sand for a feeder berm on the easternmost end of Fontainebleau State Park.	1
STATE	Raccoon Island Repair	RI	DM	N/A	TERREBONNE	197	N/A	1994	$1,400,000	This project was a cooperative effort that utilized dredged material and vegetation to repair storm damage to Raccoon Island. Cooperators include the Louisiana Department of Natural Resources/Coastal Restoration Division, Louisiana Department of Wildlife and Fisheries/Fur and Refuge Division, Terrebonne Parish Consolidated Government, South Terrebonne Tidewater Management and Conservation District, T. Baker Smith & Son, Inc., Coastal Engineering & Environmental Consultants, Inc., and Bean Dredging. Federal grant money was also utilized for this project by LDWF and TPCG.	3A
STATE	Spoilbank along the GIWW	SBG	VP	N/A	TERREBONNE	1	N/A	1993	$9,400	This project planted 8,000 feet of spoilbank along the Gulf Intracoastal Waterway with black willow (Salix nigra) and bald cypress (Taxodium distichum) in an effort to reduce further bank erosion. The effectiveness of different types of nutria exclusion devices was also tested.	3A
STATE	Sabine Shellbank Stabilization	SSB	SP	N/A	CAMERON	10	N/A	1990	$66,000	The purpose of this project was to provide natural shoreline protection by using tidal currents to deposit clam shell on the shoreline. The benefits of this design over the use of permanent structures are lower cost, less disturbance of the natural habitat during construction, and allowing natural distribution of sediment and organisms without impediment.	4
STATE	Montegut Wetland	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	MM	N/A	TERREBONNE	1300	N/A	1993, 1995	$1,560,000	The primary objectives of this project were to protect approximately 8,000 acres of marsh and cypress-tupelo swamp, reduce saltwater intrusion, and improve wildlife habitat by moderating water flux and tidal energy in the deteriorating wetland community.	3A
STATE	Bayou LaCache Wetland	TE-0003	MM	N/A	TERREBONNE	4374	N/A	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	N/A	2006	$2,771,819	This cooperative coastal restoration project benefits approximately 4,700 acres of brackish-intermediate marsh within the Pointe Aux Chenes WMA managed by the Louisiana Department of Wildlife and Fisheries. Major funding for the project was provided by Ducks Unlimited and the North American Wetlands Conservation Act.	3A
STATE	Lower Petit Caillou	TE-0007-B	HR	N/A	TERREBONNE	3465	N/A	1995, 2007	$1,536,084	The objective of this project is to decrease saltwater intrusion into the project area by re-routing freshwater discharge from the Lashbrook pumping station through the project area prior to entry into Lake Boudreaux.	3A
STATE	Point Farm Refuge Planting	TE-0014	VP	N/A	TERREBONNE	150	N/A	1995	$226,931	This project was developed to create bottomland hardwood forests in former farmlands within the Point Farm Refuge Area (PFRA). Approximately 108,900 seedlings of bitter pecan (Carya aquatica), water oak (Quercus nigra), and cow oak (Quercus michauxii) (with nutria exclusion devices) were planted on 300 acres of former farmland within the PFRA.	3A
STATE	Morganza to the Gulf	TE-0064	HP	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 project storm event. When complete, the project will consist of the construction of 66 miles of levees and t-walls, navigation structures, water control structures, and floodgates.	3A
STATE	Larose to Golden Meadow - Flood Protection	TE-0065	HP	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.	2, 3A
STATE	Larose to Golden Meadow-Larose Sheetpile	TE-0065-SP	HP	N/A	LAFOURCHE	N/A	0.5	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 increase the level of hurricane protection for the adjacent area.	2
STATE	Lost Lake Vegetation Project	TE-0082	VP	N/A	TERREBONNE	N/A	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	OT	USACE	TERREBONNE	N/A	N/A	Pending	TBD	Feasibility Study and EIS preparation for investigating deepening of the HNC to accommodate the current fleet of large vessels utilizing the navigation channel, as well as the increased need for support of the offshore oil and gas platform fabrication operations along the HNC. This project is being managed by DOTD with interim funding being provided by CPRA.	3A
STATE	Valentine to Larose	TE-0111	HP	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 engineering, design, survey, repair, rehabilitation and possible construction of approximately 2,000 linear feet of levee along Bayou Lafourche, from the town of Valentine to the town of Larose.	2
STATE	St. Mary Backwater Flooding	TE-0116	HP	N/A	ST MARY, TERREBONNE	N/A	1.72	Pending	$5,000,000	This project provides for flood protection improvement to the current Morgan City flood protection system by raising some of the existing levees to elevations as identified in the March 27, 2013 report by T. Baker Smith.	3B
STATE	Yellow Bayou	TV-0002-B	SP	N/A	ST MARY	126	N/A	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 British-American Canal and to stabilize 7,465 feet of the East Cote Blanche Bay shoreline. This was achieved by constructing an oyster shell berm adjacent to the water's edge to reduce shoreline erosion.	3B
STATE	Marsh Island Control Structures	TV-0006	MM	N/A	IBERIA	643	N/A	1993	$453,500	The objectives of this project were to reduce the rate of land loss, revegetate shallow open-water areas, and increase waterfowl food within the water management units. Flap-gated/stoplog culverts and earthen canal plugs 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 management units, canal spoil banks were breached and ditches were constructed to facilitate water movement between interior marsh ponds.	3B

ONGOING PROTECTION AND RESTORATION SUMMARIES

CPRA Program	Name	State Project Number	Project Type	Federal Sponsor	Parish	Acres Benefited	Miles of Levee Improved	Construction Completion	Total Budget	Project Description	Planning Unit
STATE	Freshwater Bayou Bank Protection	TV-0011	SP	N/A	VERMILION	241	N/A	1994	$2,177,025	This project conserves vegetated wetlands by maintaining the physical integrity of marshes that separate Freshwater Bayou and interior water bodies. The dominant project feature consists of the construction of 24,000 linear feet of rock dike, extending north to the confluence of Belle Isle Bayou and Freshwater Bayou. The original project was constructed in 1994; however, repairs were made to the structure in 1996 and 2001.	3B
STATE	Oaks/Avery Structures	TV-0013-B	SP	N/A	VERMILION, IBERIA	160	N/A	2000	$3,107,735	This project enhanced the adjacent CWPPRA-funded TV-13a project by installing low-sill structures at the outfall of Oaks and Avery Canals to redirect more water flow through the portion of Bayou Petite Anse south of the GIWW.	3B
STATE	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 Protection and Restoration, St Mary Parish, St. Martin Parish and Iberia Parish, have initiated a data gathering effort. We anticipate completing this phase of the project by the end of 2010. This information will be used kick start the project with the US Army corps of Engineers. Once study authorization is obtained from the US Congress the project will progress to the feasibility phase.	3B
STATE	Morgan City/ St Mary Flood Protection	TV-0055	HP	N/A	ST MARY	N/A	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.	3B
STATE	Delcambre-Avery Canal (E&D)	TV-0057	HP	N/A	IBERIA	N/A	N/A	N/A	$970,000	This project will design and engineer a flood control structure for the Delcambre-Avery Canal just south of the Intracoastal Waterway. When constructed this project will provide flood protection improvements by allowing the closure of the Delcambre-Avery Canal to reduce the impact of storm surge from Vermilion Bay.	3B
STATE	Bayou Tigre Flood Control Complex	TV-0075	HP	N/A	IBERIA, VERMILION	N/A	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 control operations at a closure gate across Bayou Tigre, currently under design as project TV-67. This project will help mitigate ponding and flooding on the protected side caused by flood gate closure during a lengthy rain event.	3B
STATE	Surplus Freshwater Bayou Bank Stabilization	TV-0076	SP	N/A	VERMILION	Not Available	N/A	Pending	$1,300,000	This project will utilize $1,300,000 remaining from the ME-0025-SF project to augment the TV-0011B-EB foreshore rock dike feature along Freshwater Bayou.	3B
STATE	Quintana Canal/Cypremort Point	TV-4355NP1	SP	N/A	ST MARY	26	N/A	1998	$1,316,818	The project features approximately 3,650 linear feet of rock breakwaters along the Vermilion Bay shoreline and approximately 3,375 linear feet of foreshore rock dike along the Vermilion Bay/Quintana Canal intersect and the south bank of the Quintana Canal.	3B
STATE	Beneficial Use of I-10 Twin Span Debris (Deauthorized)	N/A	OT	N/A	ORLEANS	N/A	N/A	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
STATE	East of Harvey Canal Interim Hurricane Protection - Phase I	N/A	HP	N/A	JEFFERSON	N/A	N/A	2009	$4,000,000	This project involved the installation of a combination of sheet pile and earthen flood protection, ultimately to an elevation of 10.0 feet along the east side of the Harvey Canal from the sector gate at Lapalco Boulevard to the existing levee at the west end, to provide interim hurricane protection during construction of the HSDRRS system.	2
STATE	Raising of LA 1 at Golden Meadow Floodgate and Completion of Golden Meadow Lock Structure	N/A	HP	N/A	LAFOURCHE	N/A	N/A	2010	$18,000,000	This project funded the raising 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 Hurricane Protection System. .	2
STATE	Raising of LA 23 at LaReussite	N/A	HP	N/A	PLAQUEMINES	N/A	N/A	2012	$1,200,000	This project involves raising LA Hw. 23 to the elevation of the adjoining La Reussite Siphon guide levees, where the highway crosses those guide levees. LDOTD performed the engineering in house and let contracts to complete the project.	2
STATE	Bay Welsh Disposal Site (Houma Navigation Canal)	N/A	DM	N/A	TERREBONNE	N/A	N/A	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.	3A
STATE	Chabert Ring Levee	N/A	HP	N/A	TERREBONNE	N/A	Not Available	2008	$500,000	The project consists of the design and construction for a segment of levee around the Chabert Medical Center in Houma, Louisiana. The proposed ring levee will surround the Chabert Medical Center and will provide flood protection for the facility allowing operation during possible flood events.	3A
STATE	Wine Island	N/A	DM	N/A	TERREBONNE	N/A	N/A	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
STATE	NRCS Biomass Production Program	N/A	VP	NRCS	COASTWIDE	N/A	N/A	N/A	$80,000	The NRCS-LDNR/CRD Biomass Program is a multiyear programmatic initiative to accelerate the collection, testing, and release of important coastal wetland restoration plants. The Biomass Program began in 1999 in conjunction with the LDNR/CRD Small-Drdge Program with emphasis on plant performance and dedicated dredged sediment. This program is an important coastal restoration initiative that is advancing coastal wetland plant technology development.	COASTWIDE
STATE	NRCS Biomass Production Program	N/A	VP	NWRC	COASTWIDE	N/A	N/A	N/A	$1,552,100	This multi-year cooperative agreement funds the study of endemic wetland plant productivity, with the goal of identifying specific environmental conditions for maximum growth of a number of varieties (i.e., cultivars) 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 revegetation efforts.	COASTWIDE
STATE	NRCS Vegetative Planting	N/A	VP	NRCS	COASTWIDE	609	N/A	N/A	$399,858	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
WRDA	Davis Pond Freshwater Diversion	BA-0001	FD	USACE	ST CHARLES	33000	N/A	2002	$120,000,000	The purpose of this project is to maintain and enhance the existing ecological framework of the Barataria Basin by providing freshwater, nutrients, and sediment. This will counter saltwater intrusion and help offset marsh subsidence. This project can divert up to 10,650 cfs.	2
WRDA	Caernarvon Freshwater Diversion	BS-0008	FD	USACE	PLAQUEMINES	16000	N/A	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.	1

Notes:

Program: CWPPRA=Coastal Wetlands Planning, Protection and Restoration Act; State=Restoration projects funded primarily by the State of Louisiana; SECTION 204/1135= Water Resource Development Act Sections 204 and 1135 beneficial use of dredged material projects; WRDA=Water Resources Development Act; LCA=Louisiana Coastal Area; FEMA= Federal Emergency Managment Agency funded projects; CIAP 2007= Coastal Impact Assistance Program; Surplus 07, Surplus 08, Surplus 09=State surplus-funded projects; Other=funded by programs not otherwise listed.

Agency/Sponsor: BOEMRE=Bureau or Ocean Energy Management, Regulation, and Enforcement; EPA=Environmental Protection Agency; FEMA=Federal Emergency Management Agency; HUD=Housing and Urban Development; NMFS=National Marine Fisheries Service; NRCS=Natural Resources Conservation Service; NWRC=National Wetlands Research Center; USFWS=U.S. Fish and Wildlife Service; USACE=U.S. Army Corps of Engineers; USGS=U.S. Geological Survey.

Project Type: BH=Barrier Island/Headland; DM=Beneficial Use of Dredged Material; FD=Freshwater Diversion; HP=Hurricane Protection; HR=Hydrologic Restoration; MC=Marsh Creation; MM=Marsh Management; OM=Outfall Management; OT=other project types (infrastructure, etc.); PP=Property Purchase; SD=Sediment Diversion; SNT=Sediment and Nutrient Trapping; SP=Shoreline Protection; TE=Terraces; VP=Vegetation Planting.

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

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Appendix B
Three-Year Expenditure Projections

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

Project ID	Project Name	FY 2017	FY 2018	FY 2019	Project Total (FY 2017 - FY 2019)
Engineering and Design (P1)					
BA-0125	Northwest Turtle Bay Marsh Creation[1]	$286,777	$0	$0	$286,777
BA-0171	Caminada Headlands Back Barrier Marsh Creation[1]	$653,405	$0	$0	$653,405
BA-0173	Bayou Grand Cheniere Marsh and Ridge Restoration[1]	$1,583,335	$0	$0	$1,583,335
BA-0193	Caminada Headlands Back Barrier Marsh Creation Increment 2[1]	$1,166,455	$1,066,455	$614,815	$2,847,724
BA-0194	East Leeville Marsh Creation and Nourishment[1]	$1,585,552	$1,485,552	$698,360	$3,769,464
BA-0195	Barataria Bay Rim Marsh Creation and Nourishment	$204,107	$104,107	$70,087	$378,301
BS-0024	Terracing and Marsh Creation South of Big Mar	$33,948	$0	$0	$33,948
CS-0049	Cameron-Creole Freshwater Introduction	$0	$0	$0	$0
CS-0053	Kelso Bayou Marsh Creation and Hydrologic Restoration	$0	$0	$0	$0
CS-0066	Cameron Meadows Marsh Creation and Terracing[1]	$0	$0	$0	$0
CS-0078	No Name Bayou Marsh Creation and Nourishment[1]	$1,078,890	$493,629	$0	$1,572,519
CS-0079	Oyster Lake Marsh Creation and Nourishment[1]	$1,492,785	$1,392,785	$482,246	$3,367,816
ME-0031	Freshwater Bayou Marsh Creation	$41,849	$11,809	$0	$53,658
ME-0032	South Grand Chenier Marsh Creation- Baker Tract	$146,541	$54,200	$0	$200,741
PO-0075	LaBranche East Marsh Creation	$80,310	$0	$0	$80,310
PO-0133	LaBranche Central Marsh Creation	$95,784	$0	$0	$95,784
PO-0168	Shell Beach South Marsh Creation[1]	$180,328	$80,530	$0	$260,858
PO-0169	New Orleans Landbridge Shoreline Stabilization and Marsh Creation	$534,010	$487,193	$0	$1,021,202
PO-0173	Fritchie Marsh Creation and Terracing	$225,553	$125,553	$74,550	$425,655
TE-0066	Central Terrebonne Freshwater Enhancement	$25,397	$23,240	$0	$48,638
TE-0083	Terrebonne Bay Marsh Creation - Nourishment[1]	$68,735	$22,033	$0	$90,767
TE-0112	North Catfish Lake Marsh Creation	$33,230	$15,204	$0	$48,433
TE-0117	Island Road Marsh Creation and Nourishment[1]	$1,155,253	$506,412	$0	$1,661,665
TE-0134	West Fourchon Marsh Creation[1]	$1,485,624	$679,724	$0	$2,165,348
Construction (P2)					
BA-0027-C	Barataria Basin Landbridge Shoreline Protection Phase 3-CU7 and CU8	$61,983	$0	$0	$61,983
BA-0034-2	Hydrologic Restoration and Vegetative Planting in the Lac des Allemands Swamp[1]	$2,857,761	$0	$0	$2,857,761
BA-0048	Bayou Dupont Marsh and Ridge Creation[1]	$217,172	$0	$0	$217,172
BA-0164	Bayou Dupont Sediment Delivery- Marsh Creation 3[1]	$3,066,008	$0	$0	$3,066,008
BS-0016	South Lake Lery Shoreline and Marsh Restoration	$89,220	$0	$0	$89,220
CS-0028	Sabine Refuge Marsh Creation[3]	$0	$0	$0	$0
CS-0054	Cameron-Creole Watershed Grand Bayou Marsh Creation[1]	$15,199,048	$3,289,657	$0	$18,488,705
CS-0059	Oyster Bayou Marsh Creation and Terracing[1]	$11,346,830	$4,849,604	$0	$16,196,434
ME-0018	Rockefeller Refuge Gulf Shoreline Stabilization[1]	$13,831,213	$17,097,625	$0	$30,928,838
ME-0020	South Grand Chenier Marsh Creation Project	$1,708,713	$0	$0	$1,708,713
ME-0021	Grand Lake Shoreline Protection, Tebo Point	$680,898	$0	$0	$680,898
PO-0104	Bayou Bonfouca Marsh Creation[1]	$18,950,252	$2,076,740	$0	$21,026,992
TE-0032-A	North Lake Boudreaux Basin Freshwater Introduction and Hydrologic Management[1]	$7,259,623	$17,769,072	$0	$25,028,695
TE-0072	Lost Lake Marsh Creation and Hydrologic Restoration[1]	$17,947,295	$8,654,038	$0	$26,601,333
TV-0063	Cole's Bayou Marsh Restoration[1]	$9,529,104	$11,650,072	$0	$21,179,176
Demonstration Projects (P1 & P2)					
LA-0280	Shoreline Protection, Preservation, and Restoration (SPPR) Panel[1]	$844,998	$844,998	$384,300	$2,074,295
Subtotal		$115,747,984	$72,780,230	$2,324,358	$190,852,572
Adjustment for Outlying Years[2]		N/A	$17,219,770	$87,675,642	$104,895,412
Total Expenditures		$115,747,984	$90,000,000	$90,000,000	$295,747,984
Surplus Expenditures (See Table B-6)		($5,461,325)	$0	$0	($5,461,325)
Federal Expenditures (see Note 1)		$96,923,059	$78,008,368	$76,377,059	$251,308,486
Trust Fund Expenditures		$13,363,600	$11,991,632	$13,622,941	$38,978,173

Notes:

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

2- Because CWPPRA projects compete for funding annually, CWPPRA expenditures as presented in Table B-1 (which include projected expenditures for approved projects only) do not adequately capture likely CWPPRA expenditures in outlying years. The State's estimated CWPPRA expenditures for FY 2017 - FY 2018 are therefore based on prior years' expenditures.

Table B-2. Louisiana WRDA Projected Expenditures

Project ID	Project Name	FY 2017	FY 2018	FY 2019	Project Total (FY 2017 - FY 2019)
LCA Projects[1]					
BA-0071	Medium Diversion with Dedicated Dredging at Myrtle Grove[2]	$500,000	$0	$0	$500,000
BA-0072	Modification of Davis Pond Diversion[2]	$80,000	$0	$0	$80,000
BS-0019	Modification of Caernarvon Diversion[2]	$80,000	$0	$0	$80,000
BS-0020	Medium Diversion at White Ditch[2]	$165,000	$0	$0	$165,000
PO-0068	Small Diversion at Convent/ Blind River[2]	$165,000	$0	$0	$165,000
PO-0069	Amite River Diversion Canal Modification[2]	$165,000	$0	$0	$165,000
TE-0067	Maintain Land Bridge Between Caillou Lake and Gulf of Mexico[2]	$80,000	$0	$0	$80,000
TE-0068	Stabilize Gulf Shoreline at Point Au Fer Island[2]	$80,000	$0	$0	$80,000
TE-0070	Terrebonne Basin Barrier Shoreline Restoration[2]	$165,000	$0	$0	$165,000
TE-0071	Convey Atchafalaya River Water to Northern Terrebonne Marshes[2]	$165,000	$0	$0	$165,000
Long term, Large Scale Studies					
MR-0016	Mississippi River Hydrodynamic and Delta Management Study[3]	$1,500,000	$500,000	$0	$2,000,000
Other Projects					
LA-0020	Southwest Coastal Louisiana[3]	$960,294	TBD	TBD	$960,294
Total Expenditures		**$4,105,294**	**$500,000**	**$0**	**$4,605,294**
Surplus Expenditures for WRDA (see Table B-6)		**($2,460,294)**	**($500,000)**	**$0**	**($2,960,294)**
Credit Applied		**($1,645,000)**	**$0**	**$0**	**($1,645,000)**
Trust Fund Expenditures for WRDA		**$0**	**$0**	**$0**	**$0**

Notes:
1- Expenditures represent payment of remaining portion of the State's cost share per the Federal sponsor
2- All or a portion of project expenditures will be covered with accrued credit
3- Project expenditures are funded through Surplus revenues (see Table B-6); expenditures in future fiscal years will be covered with accrued credit o
Trust Fund dollars.

Table B-3. Coastal Impact Assistance Program (CIAP) Projected Expenditures[1]

Project ID	Project Name	FY 2017	FY 2018	FY 2019	Project Total (FY 2017 - FY 2019)
Restoration Projects					
AT-0015	Atchafalaya Long Distance Sediment Pipeline	$333,333	$0	$0	$333,333
BA-0043 (EB)	Mississippi River Long Distance Sediment Pipeline[2]	$0	$0	$0	$0
BA-0161	Mississippi River Reintroduction into Bayou Lafourche	$14,368,947	$0	$0	$14,368,947
BA-0162-CAT	Shoreline Protection Cat Island	$498,787	$0	$0	$498,787
LA-0012.3	Performance Evaluation - Freshwater Bayou	$89,406	$0	$0	$89,406
LA-0012.5	Performance Evaluation - Barrier Island Studies	$0	$0	$0	$0
LA-0013	Coastal Forest Conservation Initiative	$1,300,000	$0	$0	$1,300,000
MR-0016	Mississippi River Hydrodynamic and Delta Management Study[3]	$0	$0	$0	$0
MR-0016-SSPM	Mississippi River Delta Strategic Planning- SSPM Expansion	$2,036,398	$0	$0	$2,036,398
PO-0073	Central Wetlands Demonstration	$900,000	$0	$0	$900,000
PO-0073-1	Central Wetlands - Riverbend[4]	$71,675	$0	$0	$71,675
PO-0073-2	Central Wetlands - EBSTP to A2	$3,174,050	$0	$0	$3,174,050
PO-0148	Living Shoreline	$9,972,035	$0	$0	$9,972,035
TE-0063	Falgout Canal Freshwater Enhancement	$3,299,983	$0	$0	$3,299,983
Infrastructure Projects					
TV-0031	Acadiana Regional Airport	$0	$0	$0	$0
Total Expenditures		**$36,044,614**	**$0**	**$0**	**$36,044,614**

Notes:

1- Funding shown in table represents State CIAP expenditures only. Some projects have multiple funding sources (see other footnotes).

2- Project to receive supplemental funding from surplus funds (see Table B-6).

3- Project authorized through WRDA; CIAP funds used to supplement WRDA expenditures (see Table B-2).

4- FY 2017 expenditures are for post-construction vegetative plantings.

Table B-4. Community Development Block Grant (CDBG) Projected Expenditures

Project ID	Project Name	FY 2017	FY 2018	FY 2019	Project Total (FY 2017 - FY 2019)
BA-0082	Lafitte Area Levee Repair	$250,000	$100,000	$0	$350,000
TE-0078	Cut-Off/Pointe Aux Chene Levee	$7,200,000	$0	$0	$7,200,000
TV-0060	Front Ridge Chenier Terracing/Protection	$1,181,362	$0	$0	$1,181,362
TV-0067	Bayou Tigre Flood Control Project	$2,816,435	$2,816,435	$0	$5,632,870
N/A	CDBG Program Administration	$27,242	$0	$0	$27,242
Total Expenditures		**$11,475,039**	**$2,916,435**	**$0**	**$14,391,474**

Table B-5. State-Only Project Expenditures (Non-Surplus)

Project ID	Project Name	FY 2017	FY 2018	FY 2019	Project Total (FY 2017 - FY 2019)
MOEX Projects					
MR-0016-SSPM	Mississippi River Delta Strategic Planning- SSPM Expansion[1]	$2,286,619	$0	$0	$2,286,619
PO-0142	Hydrologic Restoration of the Amite River Diversion Canal[2]	$815,000	$76,164	$1,595,736	$2,486,900
Capital Outlay Projects					
BA-0066	West Bank and Vicinity[3]	$750,000	$0	$0	$750,000
BA-0075-1	Jean Lafitte Tidal Protection[3]	$1,500,000	$0	$0	$1,500,000
BA-0075-2	Rosethorne Tidal Protection[3]	$500,000	$0	$0	$500,000
TE-0064	Morganza to the Gulf[3]	$2,500,000	$0	$0	$2,500,000
LDOTD Interagency Transfer Projects					
TE-0108	HNC Deepening Section 203 Study	$346,309	$31,310	$0	$377,619
Projects with Trust Fund Expenditures					
BA-0109	HSDRRS Mitigation- WBV[4]	$10,000	$20,000	$20,000	$50,000
BA-0154	Previously Authorized Mitigation WBV[4]	$12,000	$25,000	$25,000	$62,000
BA-0156	Plaquemines TFU Mitigation-Braithwaite to Scarsdale- Big Mar[4]	$10,000	$20,000	$0	$30,000
BA-0158	New Orleans to Venice Mitigation- Plaquemines Non-Fed[4]	$3,750	$3,750	$3,750	$11,250
BA-0159	New Orleans to Venice Mitigation- Fed[4]	$3,750	$3,750	$3,750	$11,250
PO-0057	SELA- Overall[4]	$10,000	$10,000	$10,000	$30,000
PO-0121	HSDRRS Mitigation- LPV[4]	$40,000	$90,000	$0	$130,000
Total State Expenditures		**$8,787,428**	**$279,974**	**$1,658,236**	**$10,725,638**

Notes:

1- Project receiving supplemental funding from CIAP funds (see Table B-3).

2- Projected expenditures in outlying years are for post-construction activities including site assessment, nutria control, and vegetative plantings.

3- Project receiving supplemental funding from Surplus funds (see Table B-6).

4- Project is currently 100% Federal. Projected expenditures are for staff coordination with Federal project team members.

Table B-6. Surplus Projected Expenditures (2007, 2008, 2009)

Project ID	Project Name	FY 2017	FY 2018	FY 2019	Project Total (FY 2017 - FY 2019)
BA-0025	Bayou Lafourche Freshwater Introduction[1]	$848,739	$0	$0	$848,739
BA-0043 (EB)	Mississippi River Long Distance Sediment Pipeline[2]	$9,200,000	$0	$0	$9,200,000
BA-0045	Caminada Headland Beach and Dune Restoration[3]	$523,406	$2,920	$126,216	$652,542
BA-0071	Medium Diversion with Dedicated Dredging at Myrtle Grove[4]	$3,360,892	$500,000	$0	$3,860,892
BA-0075-1	Jean Lafitte Tidal Protection	$7,314,709	$1,828,677	$0	$9,143,386
BA-0075-2	Rosethorne Tidal Protection	$7,500,000	$9,200,000	$0	$16,700,000
BA-0085	St. Charles West Bank Hurricane Levee Protection	$8,100,000	$548,265	$0	$8,648,265
BA-0115	Donaldsonville to the Gulf[5]	$1,325,833	$0	$0	$1,325,833
BA-0168	Grand Isle Fifi Island Breakwater	$0	$0	$0	$0
BA-0169	Kraemer/Bayou Boeuf Levee Lift	$1,000,000	$0	$0	$1,000,000
CS-0004	Cameron Creole Levee[6]	$2,852,161	$0	$0	$2,852,161
LA-0020	Southwest Coastal Louisiana	$960,294	$0	$0	$960,294
ME-0025 (SF)	Marsh Creation near Freshwater Bayou	$750,000	$0	$0	$750,000
PO-0062	West Shore Lake Pontchartrain	$3,500,000	$0	$0	$3,500,000
PO-0063	Lake Pontchartrain and Vicinity	$14,312,406	$3,328,227	$1,351,022	$18,991,655
PO-0072	Biloxi Marsh[6]	$1,496,449	$0	$0	$1,496,449
PO-0167	South Slidell Ring Levee	$1,200,000	$700,000	$0	$1,900,000
PO-0170	Violet Canal North Levee Alignment[7]	$1,154,000	$0	$0	$1,154,000
TE-0064	Morganza to the Gulf	$19,500,000	$0	$0	$19,500,000
TE-0065-SP	Larose to Golden Meadow- Larose Sheetpile	$3,400,000	$0	$0	$3,400,000
TE-0113	Houma Navigation Canal Lock Complex	$7,000,000	$7,000,000	$3,826,642	$17,826,642
TE-0116	St. Mary Backwater Flooding	$1,937,880	$2,443,702	$0	$4,381,582
TV-0054	South Central Coastal Plan	$449,420	$0	$0	$449,420
TV-0055	Morgan City/ St Mary Flood Protection	$3,364,273	$0	$0	$3,364,273
TV-0057	Delcambre-Avery Canal (E&D)	$712,472	$0	$0	$712,472
TV-0075	Bayou Tigre Flood Control Complex	$1,018,832	$3,112,992	$2,075,328	$6,207,152
N/A	East of Harvey Canal	$161,399	$0	$0	$161,399
N/A	Southeast Louisiana Flood Protection/ LERRDS[8]	$61,817,340	$2,960,933	$2,845,837	$67,624,110
Programmatic and Non-Project Surplus Expenditures					
AT-0013	Atchafalaya Basin Natural Resources Inventory and Assessment[6]	$289,120	$0	$0	$289,120
LA-0026	Rehabilitation and Repair of State Restoration Projects[6]	$1,098,239	$0	$0	$1,098,239
LA-0027	Barrier Island Maintenance Program	$2,922,105	$0	$0	$2,922,105
N/A	Science, Technology, and Education	$0	$0	$0	$0
N/A	Coastal Wetlands Planning, Protection and Restoration Act (CWPPRA)[6]	$624,870	$0	$0	$624,870
LA-0025	Innovative Coast-Wide Initiatives	$0	$0	$0	$0
N/A	Beneficial Use[9]	$4,500,000	$529,345	$0	$5,029,345
N/A	Emergency Reserve	$6,843,816	$0	$0	$6,843,816
N/A	Innovative Programs	$876,143	$0	$0	$876,143
LA-0259	University Partnerships	$126,320	$0	$0	$126,320
N/A	Non-Structural Program Development[10]	$1,200,000	$0	$0	$1,200,000
LA-0265	Levee Engineering and Design Standards Development and Analysis	$3,263,087	$0	$0	$3,263,087
Total Expenditures		**$186,504,205**	**$32,155,061**	**$10,225,045**	**$228,884,311**

Notes:

1- Expenditures represent contingency funds to cover post-construction activities.

2- Includes expenditures for project closeout costs and also funding for Large-Scale Barataria Marsh Creation (BA-0192).

3- Surplus funds include post-construction monitoring expenditures (see Table B-9).

4- Includes funding for Mississippi River Hydrodynamic and Delta Management Study (MR-0016; see Table B-2).

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- Includes funding for Spanish Pass Marsh Creation (BA-0191).

10- 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-7. CWPPRA Monitoring Projected Expenditures

Project No.	Project Name	FY 2017	FY 2018	FY 2019	Project Total (FY 2017 - FY 2019)
AT-0002	Atchafalaya Sediment Delivery	$64,600	$5,840	$2,920	$73,360
AT-0003	Big Island Mining	$64,600	$5,840	$2,920	$73,360
BA-0002	GIWW (Gulf Intracoastal Waterway) to Clovelly Hydrologic Restoration	$86,217	$48,917	$24,284	$159,418
BA-0003-C	Naomi Outfall Management	$11,920	$12,170	$28,004	$52,094
BA-0020	Jonathan Davis Wetland Protection	$2,920	$2,920	$14,600	$20,440
BA-0027-C	Barataria Landbridge Shoreline Protection (Phase 3)	$16,060	$2,920	$48,040	$67,020
BA-0034-2	Hydrologic Restoration and Vegetative Planting in the Des Allemands Swamp	$0	$32,300	$45,300	$77,600
BA-0035	Chaland Pass to Grand Bayou	$14,380	$2,920	$2,920	$20,220
BA-0037	Little Lake Shoreline Protection/Dedicated Dredging Near Round Lake	$2,920	$2,920	$2,920	$8,760
BA-0036	Dedicated Dredging on the Barataria Basin Landbridge	$14,600	$2,920	$2,920	$20,440
BA-0038	Barataria Barrier Island Complex Project: Pelican Island and Pass La Mer to Chaland Pass Restoration	$68,840	$2,920	$2,920	$74,680
BA-0039	Mississippi River Sediment Delivery (Bayou Dupont)	$12,508	$84,396	$24,577	$121,481
BA-0042	Lake Hermitage Marsh Creation	$2,920	$69,672	$14,172	$86,764
BA-0048	Bayou Dupont Marsh and Ridge Creation	$18,639	$7,920	$8,170	$34,729
BA-0068	Grand Liard Marsh and Ridge Restoration	$122,468	$2,920	$143,928	$269,316
BS-0003-A	Caernarvon Diversion Outfall Management	$14,016	$2,920	$2,920	$19,856
BS-0016	South Lake Lery Shoreline and Marsh Restoration	$2,336	$15,056	$2,336	$19,728
CS-0011-B	Sweet Lake/Willow Lake Hydrologic Restoration	$2,920	$2,920	$2,920	$8,760
CS-0017	Cameron Creole Plugs	$16,936	$2,920	$2,920	$22,776
CS-0020	East Mud Lake Marsh Management	$15,840	$12,920	$2,920	$31,680
CS-0021	Highway 384 Hydrologic Restoration	$2,920	$2,920	$10,804	$16,644
CS-0022	Clear Marais Bank Protection	$16,936	$2,920	$2,920	$22,776
CS-0023	Replace Sabine Refuge Water Control Structures at Headquarters Canal, West Cove Canal, and Hog Island Gully	$21,608	$6,132	$2,920	$30,660
CS-0024	Perry Ridge Shore Protection	$19,856	$16,936	$2,920	$39,712
CS-0027	Black Bayou Hydrologic Restoration	$18,190	$19,942	$31,038	$69,170
CS-0028-3	Sabine Refuge Marsh Creation, Increment 3	$42,920	$7,008	$12,264	$62,192
CS-0028-4	Sabine Refuge Marsh Creation, Increment 4	$42,920	$7,008	$12,264	$62,192
CS-0029	Black Bayou Culverts Hydrologic Restoration	$2,920	$2,920	$2,920	$8,760
CS-0030	GIWW - Perry Ridge West Bank Stabilization	$16,936	$2,920	$2,920	$22,776
CS-0031	Holly Beach Sand Management	$2,920	$19,272	$16,936	$39,128
CS-0032	East Sabine Lake Hydrologic Restoration	$2,920	$2,920	$12,264	$18,104
CS-0049	Cameron-Creole Freshwater Introduction - Vegetative Plantings	$0	$0	$2,920	$2,920
CS-0054	Cameron-Creole Watershed Grand Bayou Marsh Creation	$0	$2,920	$2,920	$5,840
CS-0059	Oyster Bayou Marsh Creation & Terracing	$2,920	$4,088	$29,950	$36,958
LA-0008	Bioengineered Oyster Reef Demonstration	$131,696	$21,608	$2,920	$156,224
LA-0016	Non-Rock Alternatives for Shoreline Protection Demonstration Project	$300,820	$21,608	$2,920	$325,348
LA-0039	Coastwide Plantings Program	$93,440	$43,800	$63,656	$200,896
LA-0003-B	Coastwide Nutria Control Plan	$152,920	$152,920	$152,920	$458,760
ME-0004	Freshwater Bayou Wetland (Phases 1 & 2)	$7,592	$6,140	$16,936	$30,668
ME-0011	Humble Canal Hydrologic Restoration	$31,206	$31,038	$17,022	$79,266
ME-0013	Freshwater Bayou Bank Stabilization	$2,920	$16,310	$12,264	$31,494
ME-0014	Pecan Island Terracing	$2,920	$4,088	$2,920	$9,928
ME-0016	Freshwater Introduction South of Highway 82	$15,022	$15,022	$30,206	$60,250
ME-0019	Grand-White Lakes Landbridge Protection	$2,920	$2,920	$2,920	$8,760
ME-0020	South Grand Chenier Hydrologic Restoration Project	$2,920	$7,008	$16,936	$26,864
ME-0022	South White Lake Shoreline Protection	$7,592	$2,920	$2,920	$13,432
MR-0003	West Bay Sediment Diversion	$14,016	$2,920	$2,920	$19,856
MR-0006	Channel Armor Gap Crevasse	$9,344	$2,336	$0	$11,680
MR-0009	Delta-Wide Crevasses	$178,571	$14,016	$0	$192,587
PO-0006	Fritchie Marsh Restoration	$23,768	$2,920	$2,920	$29,608
PO-0016	Bayou Sauvage National Wildlife Refuge Hydrologic Restoration, Phase 1	$2,920	$2,920	$2,920	$8,760
PO-0018	Bayou Sauvage National Wildlife Refuge Hydrologic Restoration, Phase 2	$14,600	$2,920	$2,920	$20,440
PO-0022	Bayou Chevee Shoreline Protection	$7,300	$7,008	$2,336	$16,644
PO-0024	Hopedale Hydrologic Restoration	$2,920	$2,920	$2,920	$8,760
PO-0033	Goose Point/Point Platte Marsh Creation	$2,336	$2,336	$2,336	$7,008
PO-0104	Bayou Bonfouca Marsh Creation	$2,336	$2,336	$2,336	$7,008
TE-0020	Isle Dernieres Restoration East Island	$24,912	$2,920	$20,440	$48,272
TE-0022	Point Au Fer Canal Plugs	$3,925	$3,925	$8,889	$16,739
TE-0023	West Belle Pass Headland Restoration	$5,840	$2,920	$2,920	$11,680
TE-0026	Lake Chapeau Sediment Input and Hydrologic Restoration, Point Au Fer Island	$11,680	$2,920	$2,920	$17,520
TE-0028	Brady Canaly Hydrologic Restoration	$36,840	$24,600	$15,840	$77,280
TE-0034	Penchant Basin Natural Resources Plan, Increment 1	$200,305	$5,840	$3,796	$209,941
TE-0037	New Cut Dune/Marsh Restoration	$11,808	$2,920	$2,920	$17,648
TE-0040	Timbalier Island Dune/Marsh Restoration	$8,648	$2,920	$17,520	$29,088
TE-0044	North Lake Mechant Landbridge Restoration	$2,920	$2,920	$31,700	$37,540
TE-0046	West Lake Boudreaux Shoreline Protection and Marsh Creation	$7,125	$7,125	$7,125	$21,375
TE-0048	Raccoon Island Shoreline Protection/Marsh Creation	$8,760	$8,760	$8,760	$26,280
TE-0050	Whiskey Island Back Barrier Marsh Creation	$11,680	$5,840	$2,920	$20,440
TE-0052	West Belle Pass Barrier Headland Restoration	$40,040	$5,840	$2,920	$48,800
TE-0072	Lost Lake Marsh Creation and Hydrologic Restoration	$11,680	$7,008	$49,780	$68,468
TV-0003	Vermilion River Cutoff Bank Protection	$2,920	$0	$0	$2,920
TV-0004	Cote Blanche Hydrologic Restoration	$40,581	$16,936	$2,920	$60,437
TV-0012	Little Vermilion Bay Sediment Trapping	$16,936	$16,936	$2,920	$36,792

Table B-7. CWPPRA Monitoring Projected Expenditures

Project No.	Project Name	FY 2017	FY 2018	FY 2019	Project Total (FY 2017 - FY 2019)
TV-0013-A	Oaks/Avery Canal Hydrologic Restoration, Increment 1	$16,936	$2,920	$8,968	$28,824
TV-0014	Marsh Island Hydrologic Restoration	$21,024	$16,936	$6,966	$44,926
TV-0015	Sediment Trapping at "The Jaws"	$2,920	$6,140	$16,936	$25,996
TV-0017	Lake Portage Land Bridge	$2,920	$2,920	$16,936	$22,776
TV-0018	Four Mile Canal Terracing and Sediment Trapping	$2,920	$2,920	$2,920	$8,760
TV-0021	East Marsh Island Marsh Creation	$32,714	$22,458	$11,362	$66,534
TV-0063	Coles Bayou Marsh Restoration	$0	$17,016	$8,760	$25,776
CRMS	Coastwide Reference Monitoring System	$8,649,182	$8,662,322	$8,700,282	$26,011,785
	Total Expenditures	**$10,934,901**	**$9,644,113**	**$9,832,139**	**$30,411,152**
	Federal CWPPRA Monitoring Expenditures	**$9,294,666**	**$8,197,496**	**$8,357,318**	**$25,849,479**
	Trust Fund CWPPRA Monitoring Expenditures	**$1,640,235**	**$1,446,617**	**$1,474,821**	**$4,561,673**

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

Project ID	Project Name	FY 2017	FY 2018	FY 2019	Project Total (FY 2017 - FY 2019)
BA-0001	Davis Pond Freshwater Diversion[1]	$566,618	$611,284	$653,999	$1,831,901
BS-0008	Caernarvon Freshwater Diversion[1]	$481,482	$501,334	$536,352	$1,519,168
	Total Expenditures	**$1,048,100**	**$1,112,618**	**$1,190,351**	**$3,351,069**
	Federal WRDA Monitoring Expenditures	**$786,075**	**$834,464**	**$892,763**	**$2,513,302**
	NFWF WRDA Monitoring Expenditures (See Table B-15)	**$253,422**	**$253,422**	**$253,422**	**$760,266**
	State WRDA Monitoring Expenditures	**$8,603**	**$24,733**	**$44,166**	**$77,501**

Notes:
1- Monitoring expenditures partially funded with NFWF Adaptive Management funds (See Table B-15).

Table B-9. Projected Expenditures for Monitoring of Other Projects

Project ID	Project Name	FY 2017	FY 2018	FY 2019	Project Total (FY 2017 - FY 2019)
Berm to Barrier Projects[1]					
BA-0040	Riverine Sand Mining/Scofield Island Restoration	$7,008	$83,204	$5,840	$96,052
BA-0110	Shell Island East	$80,520	$2,920	$2,920	$86,360
NRDA Projects					
BA-0111	Shell Island West	$90,840	$14,016	$14,016	$118,872
BA-0141	NRDA Lake Hermitage Marsh Creation Increment 2	$14,016	$5,840	$60,440	$80,296
TE-0100	NRDA Caillou Lake Headlands	$0	$189,016	$14,016	$203,032
Surplus Projects[2]					
BA-0045	Caminada Headland Restoration	$167,384	$2,920	$126,216	$296,520
USACE Mitigation Projects					
BA-0109	HSDRRS Mitigation - WBV	$0	$0	$0	$0
BA-0154	Previously Authorized Mitigation - WBV	$7,300	$7,300	$7,300	$21,900
BA-0158	New Orleans to Venice Mitigation - Plaquemines Non-Federal	$0	$0	$0	$0
BA-0159	New Orleans to Venice Mitigation - Federal	$0	$0	$0	$0
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
PO-0121	HSDRRS Mitigation - LPV	$7,300	$7,300	$7,300	$21,900
PO-0145	LPV Task Force Guardian Mitigation - Bayou Sauvage	$7,300	$7,300	$7,300	$21,900
PO-0146	LPV Mitigation Project, Manchac WMA Marsh Creation	$7,300	$7,300	$7,300	$21,900
LOSCO Projects					
AT-0016	Bayou Sorrel, Frog Lake	$5,840	$5,840	$5,840	$17,520
BA-0188	OPA Lake Washington/Mendicant	$2,920	$2,920	$2,920	$8,760
BA-0196	LOSCO- EML	$21,680	$21,680	$21,680	$65,040
CS-0072	OPA Calcasieu River	$11,680	$11,680	$11,680	$35,040
LA-0278	General Oil Spill- LOSCO	$29,200	$29,200	$29,200	$87,600
MR-0027	OPA Joseph's Bayou I & II	$2,920	$2,920	$2,920	$8,760
MR-0165	OPA Gretna/Mississippi River	$5,840	$5,840	$5,840	$17,520
MR-0166	OPA Dune Energy - Garden Island Bay	$8,760	$8,760	$8,760	$26,280
TE-0121	OPA Hilcorp Bay St. Elaine	$17,520	$17,520	$17,520	$52,560
State-Only Projects					
CS-0002	Rycade Canal	$0	$0	$0	$0
PO-0142	Hydrologic Restoration of the Amite River Diversion Canal	$46,135	$70,201	$42,322	$158,658
PO-0148	Living Shoreline	$90,064	$55,777	$57,145	$202,986
PO-0152	Lake Borgne and MRGO Shoreline Protection	$7,300	$7,300	$7,300	$21,900
	Total Expenditures	**$668,027**	**$595,954**	**$494,975**	**$1,534,070**
	Berm to Barrier Expenditures	**$87,528**	**$86,124**	**$8,760**	**$182,412**
	NRDA Expenditures	**$104,856**	**$208,872**	**$88,472**	**$402,200**
	Surplus Expenditures	**$167,384**	**$2,920**	**$126,216**	**$296,520**
	LOSCO Expenditures	**$106,360**	**$106,360**	**$106,360**	**$319,080**
	Trust Fund Expenditures	**$201,899**	**$191,678**	**$165,167**	**$558,744**

Notes:
1- Monitoring expenditures funded with Berm to Barrier funds.
2- Monitoring expenditures funded with Surplus funds (see Table B-6).

Table B-10. CWPPRA Projects with O&M Budget Project Expenditures[1,2,3]

Project No.	Project Name	FY 2017	FY 2018	FY 2019	Project Total (FY 2017 - FY 2019)
AT-0002	Atchafalaya Sediment Delivery	$45,219	$4,672	$2,336	$52,227
AT-0003	Big Island Mining	$45,219	$4,672	$2,336	$52,227
BA-0002	GIWW (Gulf Intracoastal Waterway) to Clovelly Hydrologic Restoration	$1,038,154	$22,534	$22,534	$1,083,222
BA-0003-C	Naomi Outfall Management	$20,864	$19,988	$19,988	$60,840
BA-0020	Jonathan Davis Wetland Protection	$4,964	$4,088	$4,088	$13,140
BA-0023	Barataria Bay Waterway West Side Shoreline Protection	$4,964	$4,088	$4,088	$13,140
BA-0026	Barataria Bay Waterway East Side Shoreline Protection	$4,964	$4,088	$4,088	$13,140
BA-0027	Barataria Basin Landbridge Shoreline Protection, Phases 1 and 2	$2,336	$2,336	$2,336	$7,008
BA-0027-C	Barataria Basin Landbridge Shoreline Protection, Phase 3	$2,336	$2,336	$2,336	$7,008
BA-0027-D	Barataria Basin Landbridge Shoreline Protection Phase 4	$2,336	$2,336	$2,336	$7,008
BA-0034-2	Hydrologic Restoration and Vegetative Plantings in the des Allemands Swamp	$3,154	$2,920	$2,920	$8,994
BA-0035	Pass Chaland to Grand Bayou Pass Barrier Shoreline Restoration	$251,010	$9,402	$9,461	$269,873
BA-0037	Little Lake Shoreline Protection/ Dedicated Dredging Near Round Lake	$555,330	$5,490	$5,490	$566,310
BA-0038	Pelican Island and Pass La Mer to Chaland Pass Restoration	$163,323	$9,811	$9,928	$183,062
BA-0039	Bayou Dupont Sediment Delivery System	$5,264	$5,264	$5,206	$15,734
BA-0041	South Shore of the Pen Shoreline Protection and Marsh Creation	$4,964	$4,088	$11,797	$20,849
BA-0042	Lake Hermitage Marsh Creation	$11,563	$11,680	$11,797	$35,040
BA-0048	Bayou Dupont Marsh and Ridge Creation	$131,227	$86,873	$136,473	$354,573
BA-0068	Grand Liard Marsh and Ridge Restoration	$80,911	$80,911	$80,911	$242,733
BA-0164	Bayou Dupont Sediment Delivery- Marsh Creation 3	$14,016	$4,672	$4,672	$23,360
BS-0003-A	Caernarvon Diversion Outfall Management	$39,908	$41,055	$42,323	$123,286
BS-0011	Delta Management at Fort St. Philip	$4,964	$4,088	$4,088	$13,140
BS-0016	South Lake Lery Shoreline and Marsh Restoration	$4,964	$4,088	$4,088	$13,140
BS-0024	Terracing and Marsh Creation South of Big Mar	$0	$14,016	$4,964	$18,980
CS-0004-A	Cameron-Creole Maintenance	$2,122,216	$117,520	$120,440	$2,360,176
CS-0011-B	Sweet Lake/Willow Lake Hydrologic Restoration	$2,336	$2,453	$2,628	$7,417
CS-0017	Cameron Creole Plugs	$2,336	$2,453	$2,628	$7,417
CS-0018	Sabine National Wildlife Refuge Erosion Protection	$2,336	$2,453	$2,628	$7,417
CS-0020	East Mud Lake Marsh Management	$536,516	$2,453	$2,628	$541,597
CS-0021	Highway 384 Hydrologic Restoration	$17,920	$18,212	$18,212	$54,344
CS-0022	Clear Marais Bank Protection	$82,336	$2,453	$2,628	$87,417
CS-0023	Replace Sabine Refuge Water Control Structures at Headquarters Canal, West Cove Canal, and Hog Island Gully	$37,336	$37,920	$37,628	$112,884
CS-0024	Perry Ridge Shore Protection	$2,336	$2,453	$2,628	$7,417
CS-0027	Black Bayou Hydrologic Restoration	$82,008	$2,180,360	$17,628	$2,279,996
CS-0028-2	Sabine Refuge Marsh Creation, Increment 2	$376,008	$71,452	$376,300	$823,760
CS-0028-4	Sabine Refuge Marsh Creation, Increment 4	$69,340	$2,453	$2,628	$74,421
CS-0028-5	Sabine Refuge Marsh Creation, Increment 5	$69,340	$2,453	$2,628	$74,421
CS-0029	Black Bayou Culverts Hydrologic Restoration	$27,008	$27,592	$27,300	$81,900
CS-0030	GIWW - Perry Ridge West Bank Stabilization	$347,512	$2,453	$2,628	$352,593
CS-0031	Holly Beach Sand Management	$2,336	$2,453	$2,628	$7,417
CS-0032	East Sabine Lake Hydrologic Restoration	$2,336	$2,453	$2,628	$7,417
CS-0049	Cameron-Creole Freshwater Introduction - Vegetative Plantings	$424,600	$108,760	$59,052	$592,412
CS-0054	Cameron-Creole Watershed Grand Bayou Marsh Creation	$0	$131,649	$2,628	$134,277
CS-0059	Oyster Bayou Marsh Creation & Terracing	$0	$90,613	$2,628	$93,241
LA-0003-B	Coastwide Nutria Control Program	$3,302,434	$3,305,016	$3,315,739	$9,923,189
LA-0016	Non-Rock Alternatives for Shoreline Protection Demonstration Project	$2,336	$2,453	$2,628	$7,417
LA-0039	Coastwide Plantings Program	$8,760	$8,760	$8,760	$26,280
ME-0004	Freshwater Bayou Wetland (Phases 1 & 2)	$2,336	$2,453	$2,628	$7,417
ME-0009	Cameron Prairie National Wildlife Refuge Shoreline Protection	$2,336	$2,453	$2,628	$7,417
ME-0011	Humble Canal Hydrologic Restoration	$17,336	$17,453	$17,628	$52,417

Table B-10. CWPPRA Projects with O&M Budget Project Expenditures[1,2,3]

Project No.	Project Name	FY 2017	FY 2018	FY 2019	Project Total (FY 2017 - FY 2019)
ME-0013	Freshwater Bayou Bank Stabilization	$2,336	$2,453	$2,628	$7,417
ME-0014	Pecan Island Terracing	$2,336	$2,453	$2,628	$7,417
ME-0016	Freshwater Introduction South of Highway 82	$12,336	$12,453	$12,628	$37,417
ME-0018	Rockefeller Refuge Gulf Shoreline Stabilization	$0	$2,453	$2,628	$5,081
ME-0019	Grand-White Lakes Landbridge Protection	$2,336	$2,453	$2,628	$7,417
ME-0020	South Grand Chenier Hydrologic Restoration Project	$0	$568,495	$2,628	$571,123
ME-0021-B	Grand Lake Shoreline Protection, O&M Only (CIAP)	$2,336	$7,453	$2,628	$12,417
ME-0022	South White Lake Shoreline Protection	$2,336	$2,453	$2,628	$7,417
MR-0009	Delta Wide Crevasses	$5,264	$5,264	$5,206	$15,734
PO-0006	Fritchie Marsh Restoration	$9,928	$4,088	$4,088	$18,104
PO-0016	Bayou Sauvage National Wildlife Refuge Hydrologic Restoration, Phase 1	$26,737	$26,920	$27,596	$81,253
PO-0018	Bayou Sauvage National Wildlife Refuge Hydrologic Restoration, Phase 2	$24,411	$24,570	$25,141	$74,122
PO-0022	Bayou Chevee Shoreline Protection	$14,016	$19,622	$14,016	$47,654
PO-0024	Hopedale Hydrologic Restoration	$29,103	$28,870	$28,976	$86,949
PO-0030	Lake Borgne Shoreline Protection	$5,264	$5,264	$5,206	$15,734
PO-0033	Goose Point/Point Platte Marsh Creation	$4,964	$4,088	$4,088	$13,140
PO-0075	Labranche East Marsh Creation	$0	$0	$11,680	$11,680
PO-0104	Bayou Bonfouca Marsh Creation Project	$0	$23,360	$4,088	$27,448
PO-0133	Labranche Central Marsh Creation	$0	$0	$11,680	$11,680
TE-0022	Point au Fer Canal Plugs	$5,490	$7,242	$7,242	$19,974
TE-0023 (USACE)	West Belle Pass Headland Restoration	$5,490	$2,336	$2,336	$10,162
TE-0026	Lake Chapeau Sediment Input and Hydrologic Restoration, Point Au Fer Island	$5,490	$7,242	$7,242	$19,974
TE-0028	Brady Canal Hydrologic Rest.	$29,826	$38,060	$38,060	$105,946
TE-0034	Penchant Basin Natural Resources Plan Increment 1	$5,490	$5,490	$61,680	$72,660
TE-0037	New Cut Dune and Marsh Restoration	$226,668	$204,520	$5,490	$436,678
TE-0039	South Lake Decade Freshwater Introduction	$2,453	$2,453	$2,453	$7,359
TE-0043	GIWW Bank Restoration of Critical Areas in Terrebonne	$40,720	$5,490	$5,490	$51,700
TE-0044	North Lake Mechant Landbridge Restoration	$88,210	$5,490	$5,490	$99,190
TE-0046	West Lake Boudreaux Shoreline Protection and Marsh Creation	$5,490	$5,490	$5,490	$16,470
TE-0048	Raccoon Island Shoreline Protection/Marsh Creation	$2,082,706	$17,520	$5,490	$2,105,716
TE-0050	Whiskey Island Back Barrier Marsh Creation	$5,373	$5,490	$5,490	$16,353
TE-0052	West Belle Pass Barrier Headland Restoration	$426,736	$5,490	$5,490	$437,716
TE-0072	Lost Lake Marsh Creation and Hydrologic Restoration	$5,490	$5,490	$5,490	$16,470
TV-0003	Vermilion River Cutoff Bank Protection	$2,336	$2,453	$2,628	$7,417
TV-0004	Cote Blanche Hydrologic Restoration	$17,336	$17,453	$17,628	$52,417
TV-0012	Little Vermilion Bay Sediment Trapping	$57,008	$2,453	$2,628	$62,089
TV-0013-A	Oaks/Avery Canal Hydrologic Restoration, Increment 1	$341,228	$2,453	$2,628	$346,309
TV-0014	Marsh Island Hydrologic Restoration	$52,336	$2,453	$2,628	$57,417
TV-0015	Sediment Trapping at “The Jaws”	$4,672	$2,453	$2,628	$9,753
TV-0017	Lake Portage Land Bridge	$2,336	$2,453	$2,628	$7,417
TV-0018	Four Mile Canal Terracing and Sediment Trapping	$37,008	$2,453	$2,628	$42,089
TV-0021	East Marsh Island Marsh Creation	$104,774	$2,453	$0	$107,227
	TOTAL CWPPRA O&M Expenditures	**$13,682,017**	**$7,602,737**	**$4,813,065**	**$26,097,819**
	Federal CWPPRA O&M Expenditures	**$11,629,714**	**$6,462,326**	**$4,091,105**	**$22,183,146**
	State CWPPRA O&M Expenditures	**$2,052,303**	**$1,140,411**	**$721,960**	**$3,914,673**

Notes:

1. Table shows all approved CWPPRA projects. Demonstration and vegetative planting projects are not shown as they have no O&M budgets. Other projects without O&M budgets have "None" entered in the budget columns. Projects not scheduled to complete within a given year have "Not Constructed" entered in the budget column(s).
2. State share is based on CWPPRA cost share of 85% Federal/15% State except for PPL 5-6 projects, which have a 90% Federal/10% State cost share.
3. Projects that the USACE is responsible for O&M are indicated by (USACE) after the project number.

Table B-11. O&M Projected Expenditures for CWPPRA Projects without Federal Cost Share

Project ID	Project Name	FY 2017	FY 2018	FY 2019	Project Total (FY 2017 - FY 2019)
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	$7,300	$3,650	$3,650	$14,600
	Total Expenditures	**$25,550**	**$21,900**	**$21,900**	**$69,350**

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

Project ID	Project Name	FY 2017	FY 2018	FY 2019	Project Total (FY 2017 - FY 2019)
BA-0001	Davis Pond Freshwater Diversion	$766,617	$1,002,467	$1,072,601	$2,841,685
BS-0008	Caernarvon Freshwater Diversion	$420,052	$452,086	$483,694	$1,355,832
	Total Expenditures	**$1,186,669**	**$1,454,553**	**$1,556,295**	**$4,197,517**
	Federal O&M Monitoring Expenditures	**$890,002**	**$1,090,915**	**$1,167,221**	**$3,148,138**
	State WRDA O&M Expenditures	**$296,667**	**$363,638**	**$389,074**	**$1,049,379**

Table B-13. Projected Expenditures for Structural Operations/Inspections of State Projects

Project ID	Project Name	FY 2017	FY 2018	FY 2019	Project Total (FY 2017 - FY 2019)
CS-0002	Rycade Canal Marsh Management	$17,336	$0	$0	$17,336
FTL-0001	Fort Livingston	$11,468	$44,768	$11,468	$67,704
PO-0001	Violet Siphon	$101,680	$333,680	$25,680	$461,040
PO-0036	Orleans Landbridge	$5,264	$5,264	$5,264	$15,792
PO-0072	Biloxi Marsh	$40,274	$40,274	$40,274	$120,822
TE-0003	Bayou LaCache Wetlands	$105,840	$105,840	$105,840	$317,520
TV-xx	Quintana Canal	$7,336	$5,000	$5,000	$17,336
TV-0013-B	Oaks Avery Structures (Navigation Aids Inspection and Maintenance	$7,336	$5,000	$5,000	$17,336
	Total Expenditures	**$296,534**	**$539,826**	**$198,526**	**$1,034,886**

Table B-14. Projected Expenditures for O&M of Other Projects

Project ID	Project Name	FY 2016	FY 2017	FY 2018	Project Total (FY 2016 - FY 2018)
Hurricane Protection Projects					
BA-0066	West Bank and Vicinity[1]	$496,112	$522,118	$549,974	$1,568,204
BA-0067	New Orleans and Vicinity[1]	$706,928	$742,274	$556,478	$2,005,680
LA-0154	FEMA LAMP	$124,294	$84,436	$0	$208,730
LA-0206	HSDRRS Armoring[1]	$506,437	$531,759	$264,442	$1,302,638
LA-0253	Flood Protection Inspections[1]	$404,161	$424,219	$447,930	$1,276,310
LA-0269	CPRA Letter of No Objection	$570,919	$599,465	$629,438	$1,799,822
LA-0271	O&M Division State Wide Levee Board Meetings	$182,208	$191,319	$200,885	$574,412
PO-0057	SELA- Overall[1]	$296,130	$382,936	$265,637	$944,703
PO-0060	Permanent Canal Closures and Pump Stations[1]	$2,791,532	$2,806,109	$801,048	$6,398,689
PO-0063	Lake Pontchartrain and Vicinity[1]	$496,112	$522,118	$549,974	$1,568,204
PO-0096	Flood Protection Assistance[1]	$2,711,159	$2,754,217	$2,837,928	$8,303,304
USACE Mitigation Projects					
BA-0109	HSDRRS Mitigation - WBV	$0	$0	$2,336	$2,336
BA-0154	Previously Authorized Mitigation - WBV	$2,336	$2,336	$2,336	$7,008
BA-0158	New Orleans to Venice Mitigation - Plaquemines Non-Federal	$0	$0	$2,336	$2,336
BA-0159	New Orleans to Venice Mitigation - Federal	$0	$0	$2,336	$2,336
PO-0038SF	MRGO Closure Structure[1]	$2,222,400	$61,960	$61,960	$2,346,320
PO-0093	MRGO - Lake Borgne -Bayou Dupre Segment	$8,184	$8,184	$8,184	$24,552
PO-0094	MRGO - Lake Borgne -Bayou Bienvenue Segment	$8,184	$8,184	$8,184	$24,552
PO-0095	MRGO - Lake Borgne -Shell Beach Segment	$8,184	$8,184	$8,184	$24,552
PO-0121	HSDRRS Mitigation - LPV	$0	$13,114	$13,114	$26,228
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	$6,690	$13,114	$13,114	$32,918
PO-0152	Lake Borgne and MRGO Shoreline Protection	$8,184	$8,184	$8,184	$24,552
State-Only Projects					
BA-0003	Naomi Siphon	$2,336	$2,336	$0	$4,672
BA-0004	West Point a la Hache Siphon	$2,336	$2,336	$0	$4,672
LA-0273	Gulf Coast Joint Venture and Partnerships	$5,364	$8,576	$8,576	$22,516
PO-0142	Hydrologic Restoration of the Amite River Diversion Canal	$6,690	$13,114	$13,114	$32,918
PO-0148	Living Shoreline	$34,110	$34,926	$38,553	$107,589
TV-xx	Quintana Canal	$92,008	$2,034,795	$10,000	$2,136,803
TV-0013-B	Avery Canal	$82,336	$10,000	$10,000	$102,336
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	**$11,899,646**	**$11,914,625**	**$7,438,557**	**$31,252,828**
	Surplus Expenditures	**$8,386,600**	**$6,289,160**	**$4,196,859**	**$18,872,619**
	Trust Fund Expenditures	**$3,513,046**	**$5,625,465**	**$3,241,698**	**$12,380,209**

Notes:

1- Expenditures funded with Surplus funds (see Table B-6).

Table B-15. Oil Spill Projected Expenditures[1]

Project ID	Project Name	FY 2017	FY 2018	FY 2019	Project Total (FY 2017 - FY 2019)
Deepwater Horizon NRDA[2]					
BA-0076	Cheniere Ronquille Barrier Island Restoration[3]	$100,000	$0	$0	$100,000
BA-0111	Shell Island West- NRDA	$65,542,889	$0	$0	$65,542,889
TE-0100	NRDA Caillou Lake Headlands	$55,419,048	$42,057,743	$0	$97,476,791
N/A	Salt Water Hatchery[4]	$5,000,000	$17,000,000	$0	$22,000,000
N/A	NRDA Restoration Planning	$10,000,000	$4,000,000	$0	$14,000,000
N/A	Barataria Marsh Restoration	$1,500,000	$1,500,000	$10,000,000	$13,000,000
N/A	Queen Bess	$2,000,000	$2,000,000	$3,000,000	$7,000,000
N/A	Cat Island(s)	$3,000,000	$5,000,000	$7,000,000	$15,000,000
N/A	Terrebonne Ridges and Marsh	$3,000,000	$3,000,000	$10,000,000	$16,000,000
N/A	Lake Borgne Marsh	$3,000,000	$4,000,000	$10,000,000	$17,000,000
N/A	NRDA Adaptive Management	$0	$10,000,000	$10,000,000	$20,000,000
Total Deepwater Horizon NRDA Expenditures		**$148,561,937**	**$88,557,743**	**$50,000,000**	**$287,119,680**
NFWF Projects					
BA-0143	Caminada Headland Beach and Dune Restoration Increment 2	$46,675,565	$0	$0	$46,675,565
BA-0163	Mississippi River Sediment Diversions	$1,000,000	$0	$0	$1,000,000
LA-0276	Sediment Diversion Management[5]	$15,055,254	$15,055,254	$15,055,254	$45,165,762
TE-0110	Increase Atchafalaya Flow to Eastern Terrebonne	$3,000,000	TBD	TBD	$3,000,000
TE-0118	East Timbalier Island	$2,128,688	TBD	TBD	$2,128,688
N/A	NFWF Adaptive Management	$12,697,244	$753,422	$253,422	$13,704,088
Total NFWF Expenditures		**$80,556,751**	**$15,808,676**	**$15,308,676**	**$111,674,103**
Proposed RESTORE Projects[6]					
CS-0065	Calcasieu Ship Channel Salinity Control Measures	$10,404,885	$10,104,885	$55,552,443	$76,062,213
PO-0029	Mississippi River Reintroduction into Maurepas Swamp	$4,400,000	$4,400,000	$4,400,000	$13,200,000
PO-0163	Golden Triangle Marsh Creation	$1,819,981	$1,213,321	$1,011,101	$4,044,403
TE-0113	Houma Navigation Canal Lock Complex[7]	$7,000,000	$7,000,000	$7,000,000	$21,000,000
N/A	Bayou Chene Hydrologic Structure	$2,156,987	$2,156,987	$2,156,987	$6,470,961
N/A	West Grand Terre Beach Nourishment and Stabilization	$3,038,742	$2,025,828	$1,688,190	$6,752,759
N/A	Biloxi Marsh Living Shoreline	$1,348,100	$898,733	$748,944	$2,995,777
N/A	Lower Mississippi River Management	$5,000,000	$5,000,000	$5,000,000	$15,000,000
N/A	Adaptive Management	$2,400,000	TBD	TBD	$2,400,000
N/A	Local Matching Program[8]	$3,900,000	TBD	TBD	$3,900,000
N/A	RESTORE Center of Excellence	$1,600,000	$1,500,000	$936,238	$4,036,238
Total RESTORE Expenditures		**$43,068,695**	**$34,299,754**	**$78,493,902**	**$155,862,351**
Total Oil Spill Expenditures		**$272,187,383**	**$138,666,173**	**$143,802,578**	**$554,656,134**
Surplus Oil Spill Expenditures		**($7,000,000)**	**($7,000,000)**	**($3,826,642)**	**($17,826,642)**
State Oil Spill Expenditures		**$265,187,383**	**$131,666,173**	**$139,975,936**	**$536,829,492**

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 to be implemented by NOAA.

4- Project to be implemented by Louisiana Department of Wildlife and Fisheries.

5- Includes funding for the implementation of Mid-Barataria Sediment Diversion (BA-0153) and Mid-Breton Sediment Diversion (BS-0023).

6- The CPRA anticipates that additional funds totaling approximately $20.1M (plus interest payments) will become available from the Anadarko Petroleum Corporation ("Anadarko") Clean Water Act judgment under the Direct Component, Spill Impact Component and the Centers of Excellence Funding Component of the RESTORE Act, as well as approximately $1.8M through the U.S. Department of Treasury's release of previously sequestered funds and allocations of interest payments on deposits to the Gulf Coast Restoration Trust Fund. The U.S. Department of Treasury's most recent Gulf Coast Restoration Trust Fund Allocation dated February 1, 2016, provides that an estimated $18.7M will become available to the CPRA from the Anadarko judgment under the Direct Component, the Spill Impact Component and the Centers of Excellence Funding Component, which does not include amounts subject to Fiscal Year 2016 sequestration or interest estimates. Importantly, these Anadarko funds are not yet available as no funds have been paid into the Gulf Coast Restoration Trust Fund by Anadarko to date; however it is anticipated that some or all of these funds will become available such that CPRA will be able to access these funds for expenditure in FY 2017 following approval of any proposed expenditures through the established RESTORE Act procedures, which include CPRA Board review and approval. Therefore the CPRA will make every effort to accelerate the processes associated with the allocation of RESTORE funds through the State's RESTORE Act Multiyear Implementation and Expenditure Plan, and any subsequent updates or amendments thereto, for the expenditure of Direct Component and Spill Impact Component funds, in order to include these Anadarko funds, as well as the funds released by the U.S. Department of Treasury from sequestration and interest payments.

7- Project partially funded with surplus funds (see Table B-6).

8- 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 41 C.F.R. §34.303 and meets the purposes identified in La. R.S. 49:214.5.4(G).

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Appendix C

Barrier Island Status Report

BARRIER ISLAND STATUS REPORT
Fiscal Year 2016 Annual Plan

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

CONSTRUCTED PROJECTS

The coastlines of the modern Mississippi River delta plain are bordered by numerous barrier islands from Raccoon Island in the west to Hewes Point in the northern Chandeleur Islands (Figure 1). These barrier islands could be grouped to represent fragmented remnants of distal extremities of several major delta lobes and headlands: for the sake of convenience they have been grouped from west to east as the Teche Delta System, 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.

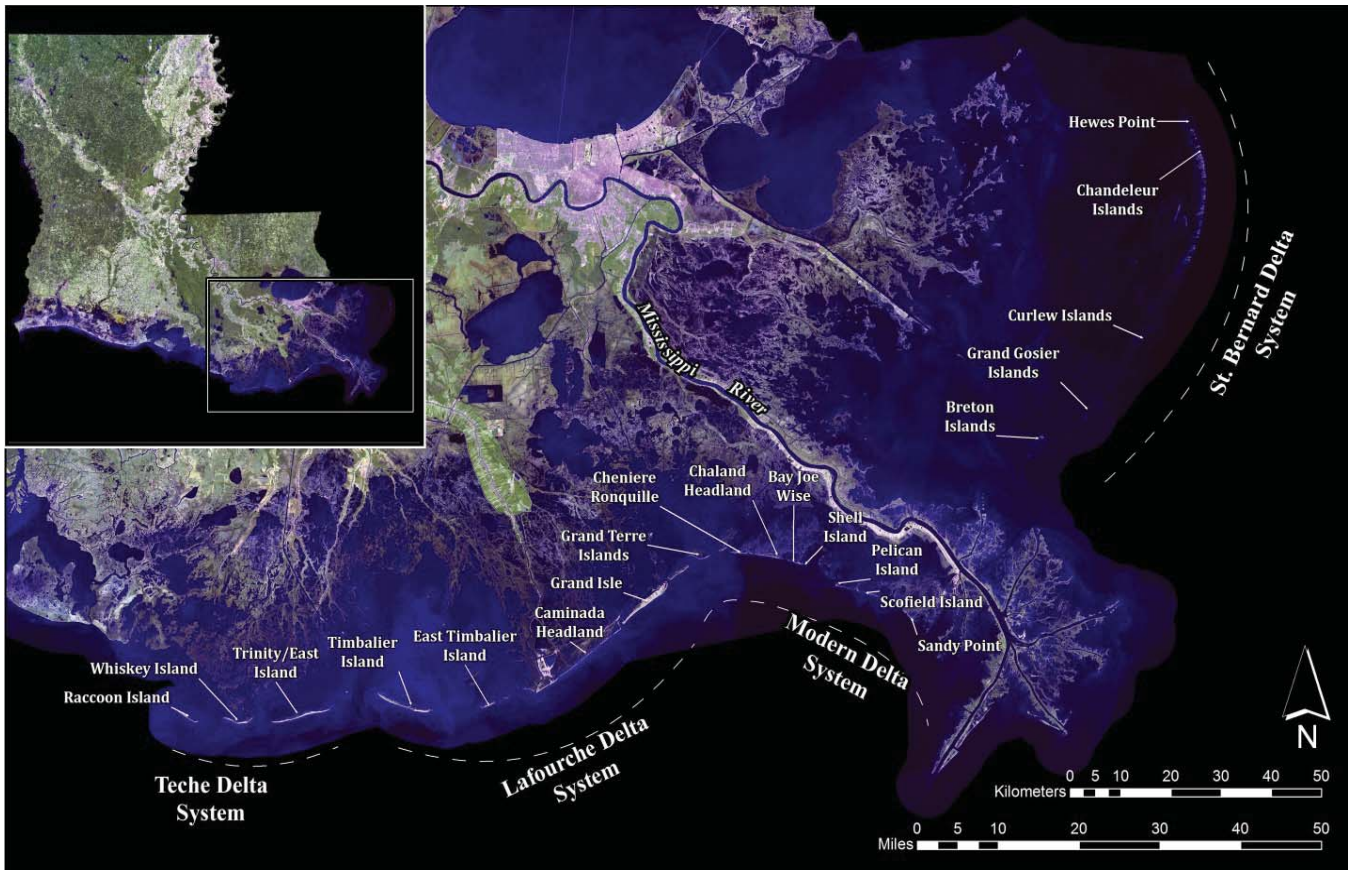

Figure 1. Location of barrier islands and Barrier Island Delta Systems in Louisiana

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 more than 30 barrier island projects have been constructed to date (including 11 in the Teche Delta System, 11 in the 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 life-expectancy and integrity of Louisiana's barrier shorelines. Finally, to ensure the efficient and effective use of limited sediment resources in Louisiana, a number of programs/projects, including Borrow Area Monitoring and Maintenance (BAMM) and the Louisiana Sand Resources Database (LASARD), have been initiated under the overarching umbrella of the Louisiana Sediment Management Plan (LASMP). In order to monitor the impact of loading of sand to build beach and dune and restore the barrier islands/headlands, a CIAP-funded Caminada Moreau Subsidence Study 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 when coast-wide photography is obtain this fall.

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 Program	Construction Date
Teche 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
Isles Dernieres Restoration Trinity Island (TE-0024)	CWPPRA	1999
New Cut Dune and Marsh Restoration (TE-0037)	CWPPRA	2007
Isles Dernieres Restoration East Island (TE-0020)	CWPPRA	1999
BIMP 2009 Sand Fencing (LA-0246)	STATE	2009
Wine Island Revegetation Project	FEMA	1995
Funded for Construction		
NRDA Caillou Lake Headlands (TE-0100) (under construction) (includes Ship Shoal: Whiskey West Flank Restoration (TE-0047))	NRDA	TBD
Future Projects		
None		

Barrier Shoreline Restoration Projects	Funding Program	Construction Date
Lafourche Barrier System		
Constructed Projects		
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
Caminada Headland Beach and Dune Restoration (BA-45)	CIAP/ STATE	2015
Grand Isle Bay Side Breakwaters (BA-0187)	STATE	
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
Funded for Construction		
NRDA Caminada Headland Beach and Dune Restoration, increment 2 (BA-143) (under construction)	CIAP/ Surplus	TBD
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	TBD

Barrier Shoreline Restoration Projects	Funding Program	Construction Date
Modern Barrier System		
Constructed Projects		
Pass La Mer to Chaland Pass (BA-38, part 1) also known as "Chaland Headland"	CWPPRA	2007
BIMP 2009 Sand Fencing (LA-0246)	STATE	2009
Pass Chaland to Grand Bayou Pass Barrier Shoreline Restoration (BA-35) also known as "Bay Joe Wise"	CWPPRA	2009
Barataria Barrier Island Complex Project: Pelican Island and Pass (BA-38, part 2)	CWPPRA	2012
Emergency Berms W8, W9, W10	Berm Funds	2010-2011
Riverine Sand Mining/Scofield Island Restoration (BA-40)	CWPPRA/ Berm Funds	2013
Shell Island Restoration East Berm (BA-110)	Berm Funds	2013
Funded for Construction		
Chenier Ronquile Barrier Island Restoration (BA-76) (under construction)	NRDA	TBD
Shell Island Restoration West NRDA (BA-111) (under construction)	NRDA	TBD
Future Projects		
BBBS Restoration (BA-10)	LCA	TBD

Barrier Shoreline Restoration Projects	Funding Program	Construction Date
St. Bernard Delta System		
Constructed Projects		
Chandeleur Islands Marsh Restoration (PO-27)	CWPPRA	2001
Emergency Berms E4	Berm Funds	2010
Funded for Construction		
Louisiana Outer Coast Restoration: Breton Island (in design)	NRDA	TBD
Future Projects		
None		

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Appendix D

Caernarvon & Davis Pond Operational Plans for 2016

CAERNARVON OPERATIONAL PLAN 2016

From December through May, the intent is to operate the diversion to maintain the seasonal average salinity at the 15 ppt line illustrated in the map below. A salinity gauge has not existed at the 15 ppt isohaline line, though one was installed closer to the line in May 2014 (USGS gauge #073745275, Black Bay nr Stone Island). Salinities at the Stone Island gauge will continue to be monitored in 2016, though December- May operations will be primarily based on data from the Black Bay gauge specified by the map (Figure 1) and graph below (Figure 2). From June through November, Caernarvon operations will be based on the monthly salinity range at the 5 ppt line specified by the map (Figure 1) and graph (Figure 3) below, utilizing the Crooked Bayou gauge. The structure will be operated when the 14-day moving average salinity is within or above the long term data range for the gauge(s) in use. When the moving average drops below the low trigger (the greater of the long term average minus 1SD or 5ppt) the diversion operations will be ceased until the moving average re-enters the operational range*. Operational settings are not to exceed 7500 cfs.

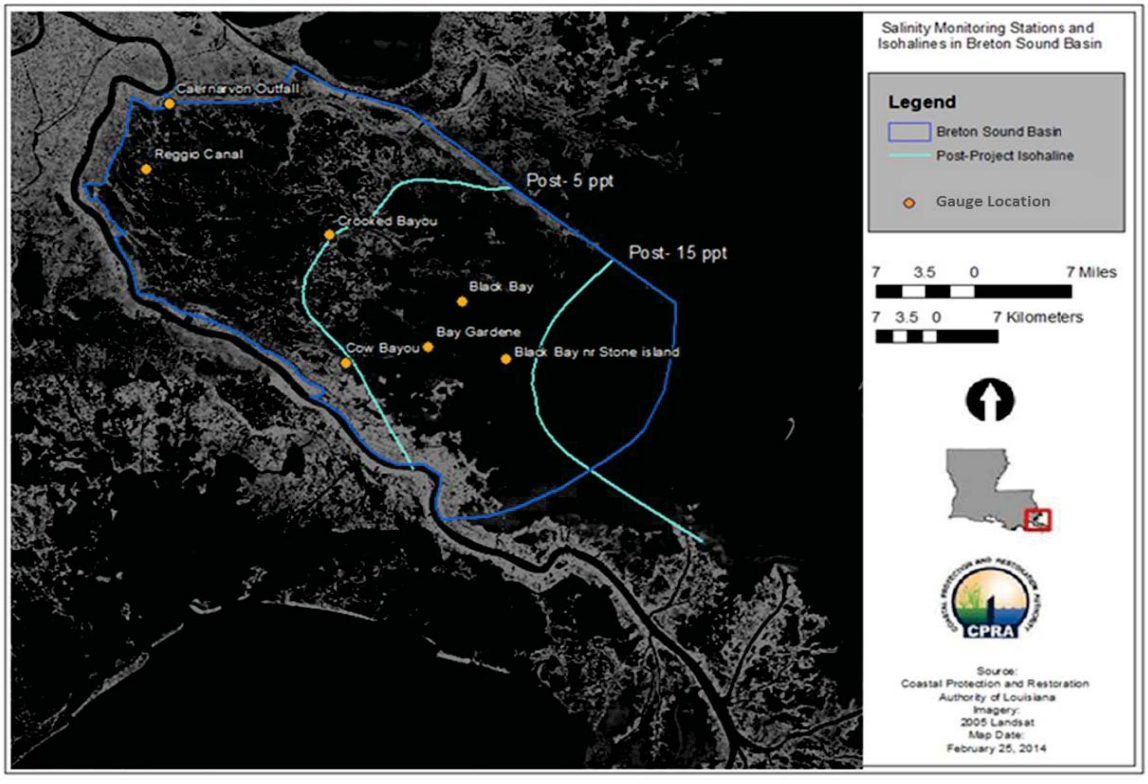

Figure 1. Map of salinity gauges and isohaline lines in Breton Sound basin to be used for guidance and operation of the Caernarvon Freshwater Diversion.

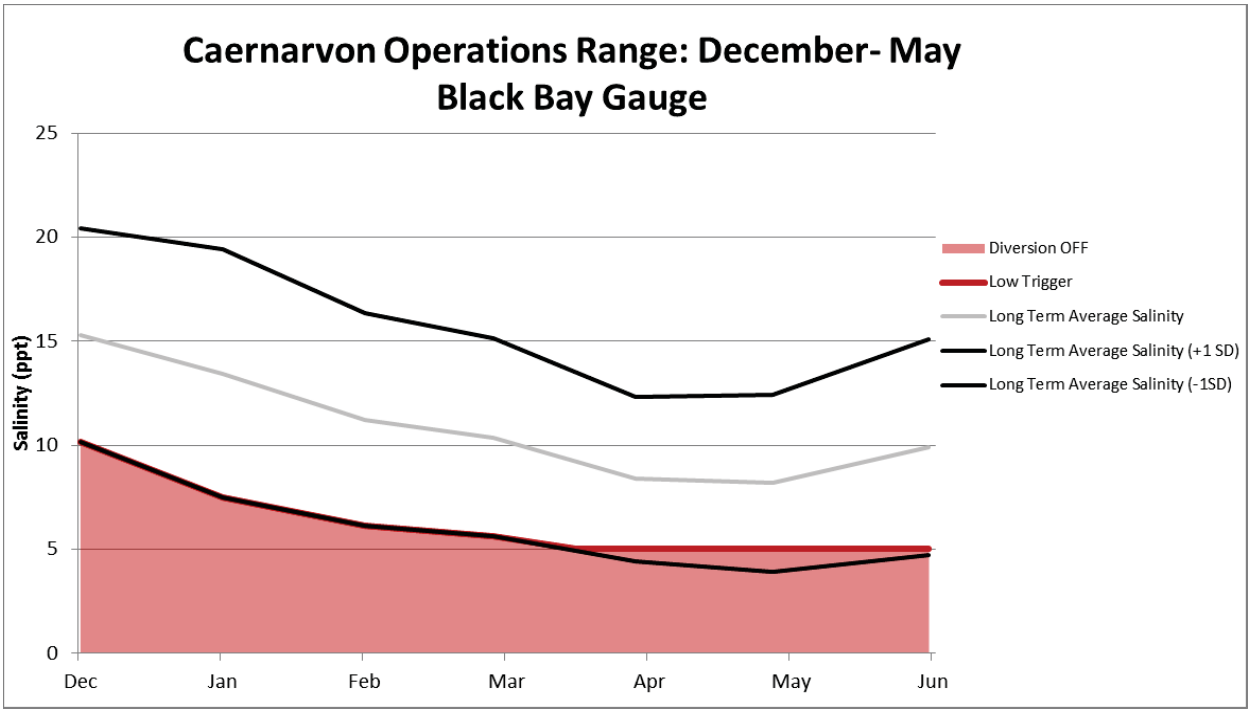

Figure 2. Long term average (+1 standard deviation) salinities from the Black Bay Gauge (USGS site 07374526). From December through May the Caernarvon Freshwater Diversion structure may be operated when the 14-day moving average salinity is within or above the data range. Operations will cease if the moving average drops below the low trigger.*

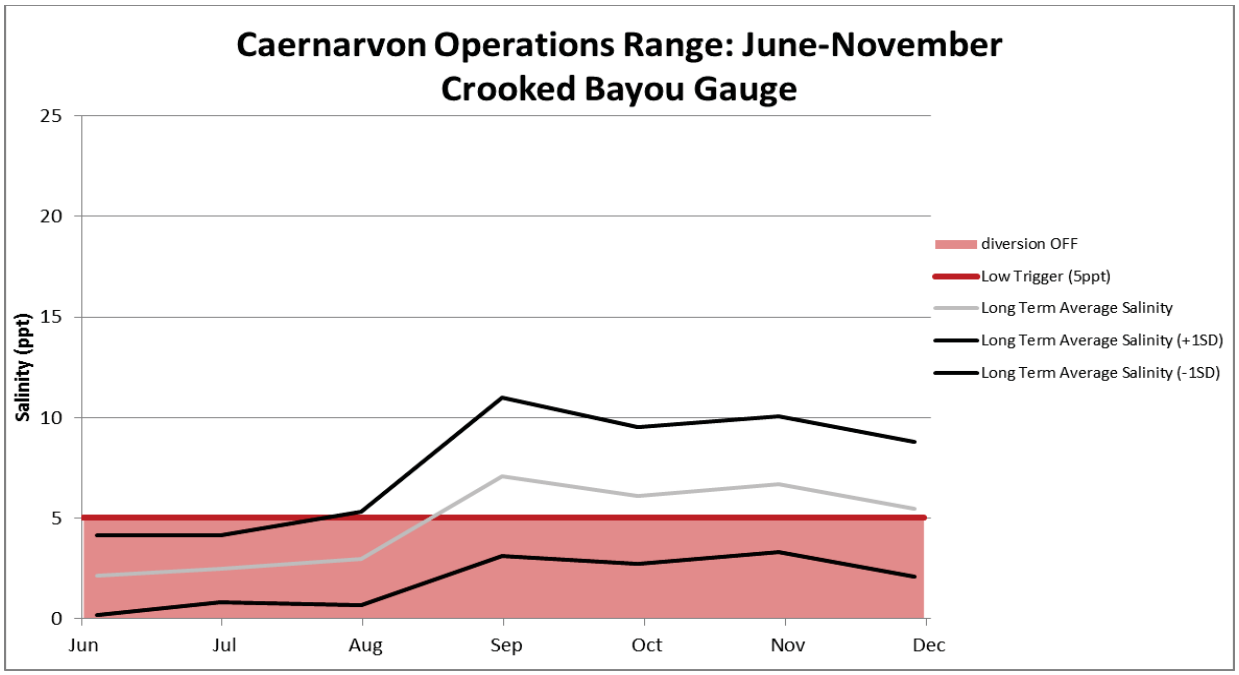

Figure 3. Long term average (+1 standard deviation) salinities from the Crooked Bayou (USGS site 073745257) and Cow Bayou (USGS site 073745258) gauges. From June through November the Caernarvon Freshwater Diversion structure may be operated when the 14-day moving average salinity is within or above the data range. Operations will cease if the moving average drops below 5ppt.*

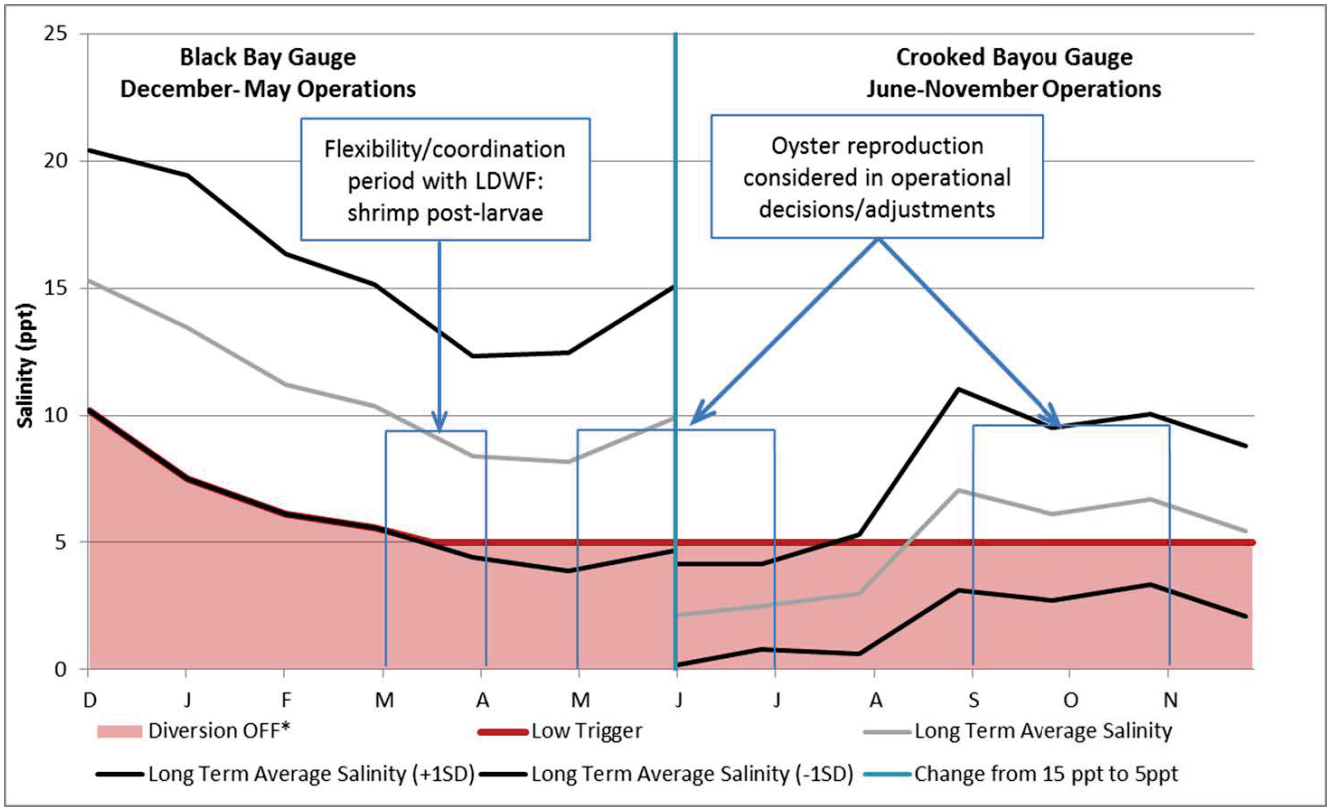

Figure 4. Long term average (+1 standard deviation) salinities from the Black Bay Gauge (USGS site 07374526). from December through May, and the Crooked Bayou (USGS site 073745257) gauge from June through November. The Caernarvon Freshwater Diversion structure may be operated when the 14-day moving average salinity is within or above the data range. Operations will cease if the moving average drops below the low trigger. Blue boxes indicate timeframes of species-specific considerations. *

* Discharges may deviate from operational plan as outlined below:

- Emergency, maintenance and local parish situations will be evaluated on a case-by-case basis to determine operational needs. The CIAC shall be notified if operations outside of the plan are required.

- Structure may be operated for public relations and/or educational purposes, though output is not to exceed 5000 cfs for a duration of no longer than 2 hours.

- Coordination with LDWF during post-larval brown shrimp migration period and oyster reproductive seasons to assist in operational decisions/adjustments to maximize benefit.

DAVIS POND OPERATIONAL PLAN 2016

From December through May, the intent is to operate the diversion to maintain the seasonal average salinity at the 15 ppt line illustrated in the map below. December- May operations will be based on data from the Barataria Bay N Grand Terre gauge specified by the map (Figure 1) and graph below (Figure 2). From June through November, operations will be based on the monthly salinity range at the 5 ppt line specified by the map (Figure 1) and graph (Figure 3) below, utilizing the Barataria Waterway S of Lafitte gauge as the primary gauge. Little Lake Bay Dos Gris will also be monitored, and utilized as a secondary gauge for the 5ppt line. The structure will be operated when the 14-day moving average salinity is within or above the long term data range for the gauge(s) in use. When the moving average drops below the low trigger (the greater of the long term average minus1SD or 5ppt) the diversion operations will be maintained at the minimum of 1000cfs until the moving average re-enters the operational range. Operational settings are not to exceed 10,000 cfs.

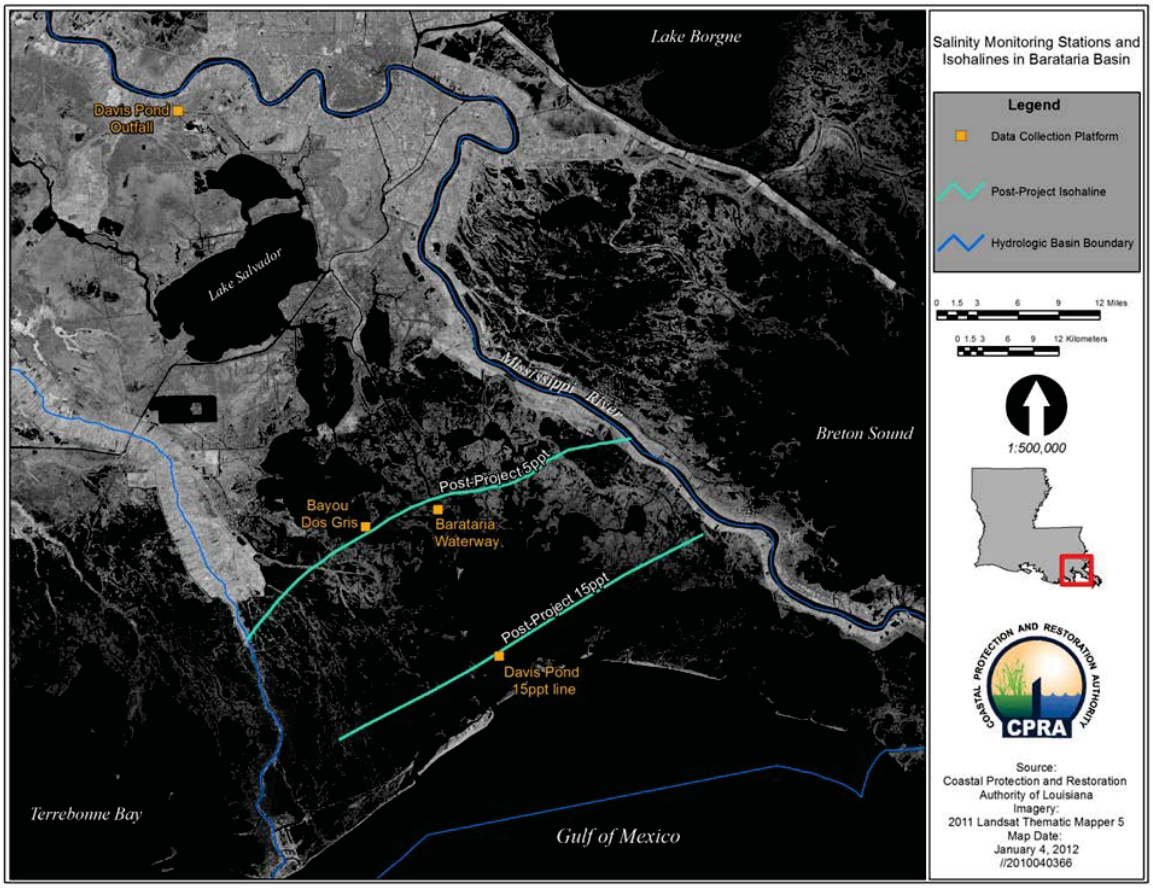

Figure 1. Map of salinity gauges and isohaline lines in Barataria Basin to be used for guidance and operation of the Davis Pond Freshwater Diversion.

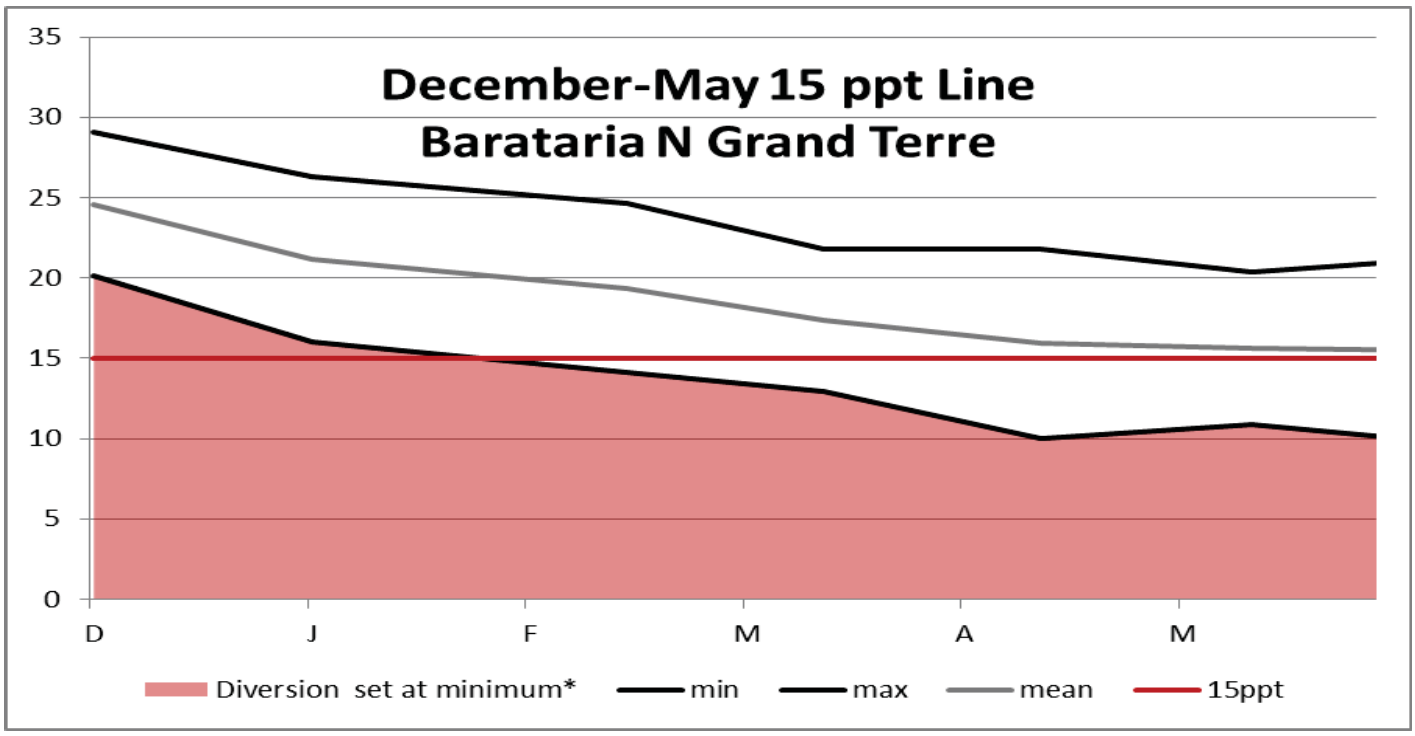

Figure 2. Long term average (+/- 1 standard deviation) salinities from the Barataria Bay N of Grand Terre Gauge (USGS site 291929089562600). From December through May the Davis Pond Freshwater Diversion structure may be operated when the 14-day moving average salinity is within or above the data range. Operations will be decreased to the minimum of 1000cfs if the moving average drops below the low trigger.*

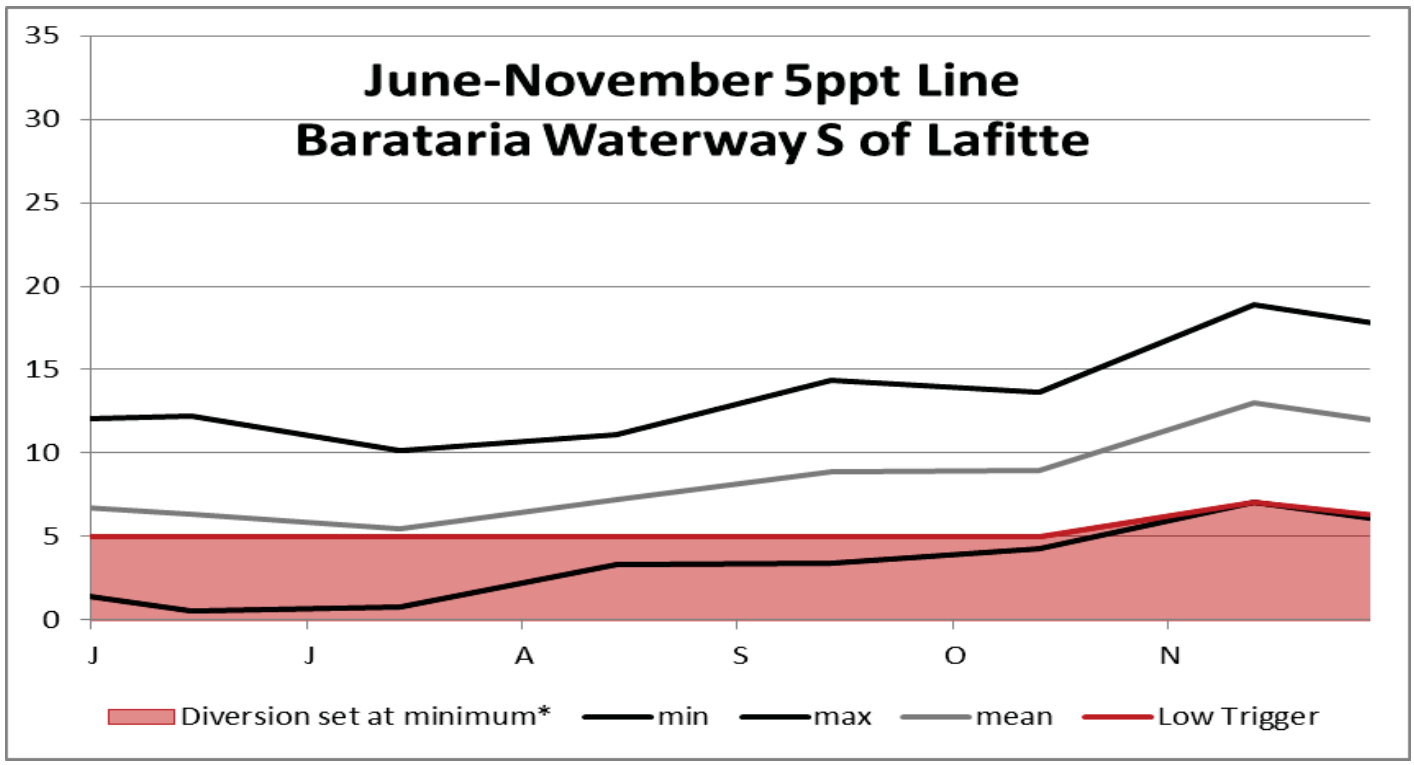

Figure 3. Long term average (+/- 1 standard deviation) salinities from the Barataria Waterway (USGS site 292859090004000). From June through November the Davis Pond Freshwater Diversion structure may be operated when the 14-day moving average salinity is within or above the data range. Operations will be decreased to the 1000cfs minimum if the moving average drops below 5ppt.*

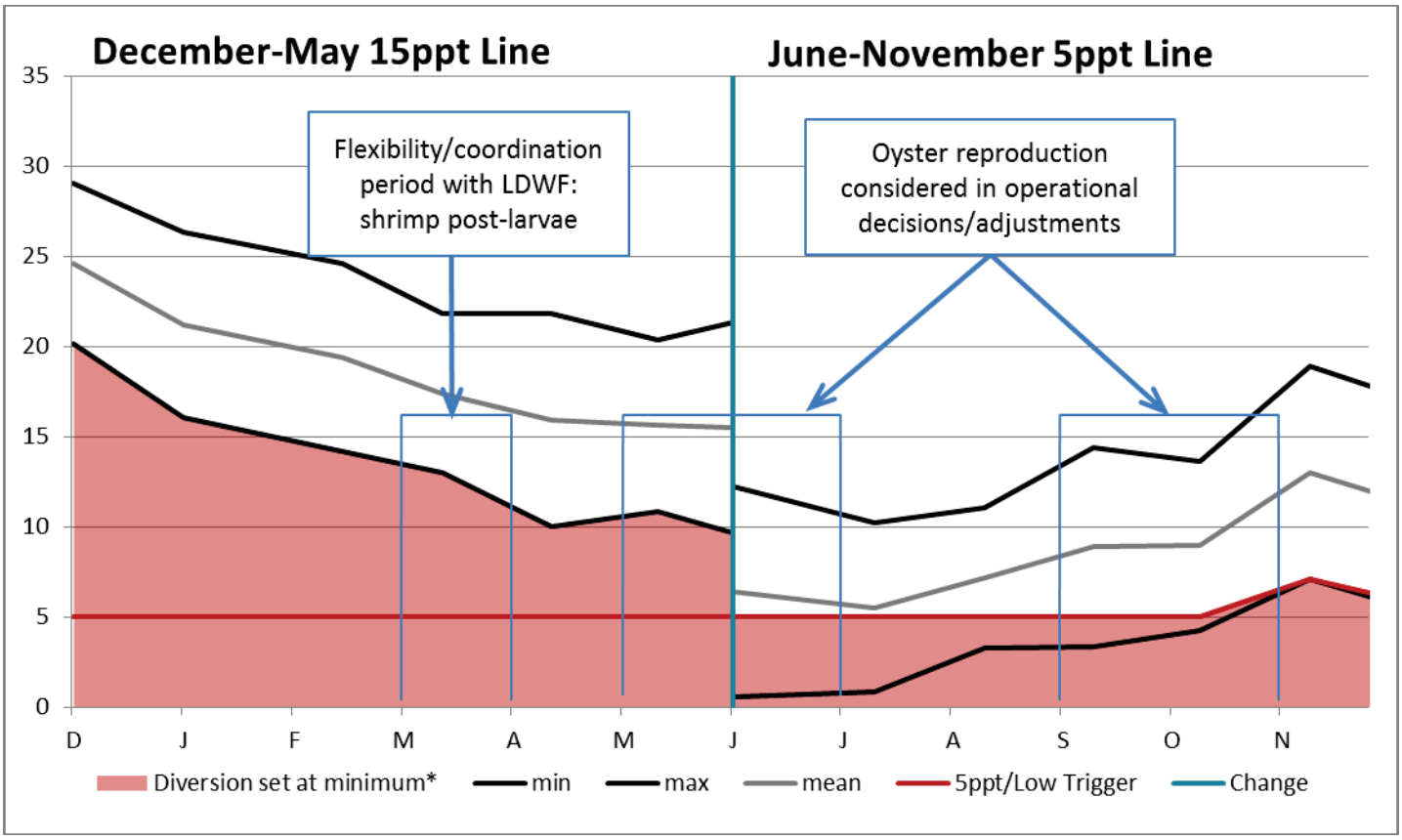

Figure 4. Long term average (+1 standard deviation) salinities from the Barataria Bay N Grand Terre Gauge (USGS site 291929089562600) from December through May, and the Barataria Waterway (USGS site 292859090004000) gauge from June through November. The Davis Pond Freshwater Diversion structure may be operated when the 14-day moving average salinity is within or above the data range. Operations will decrease to the minimum of 1000 cfs if the moving average drops below the low trigger. *

* Discharges may deviate from operational plan as outlined below:

- Emergency, maintenance and local parish situations will be evaluated on a case-by-case basis to determine operational needs. The DPAC shall be notified if operations outside of the plan are required.

- Structure may be operated for public relations and/or educational purposes, though output is not to exceed 5000 cfs for a duration of no longer than 2 hours.

- Coordination with LDWF during post-larval brown shrimp migration period and oyster reproductive seasons to assist in operational decisions/adjustments to maximize benefit.

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Appendix E

Inventory of Non-State Projects

A. Parish CIAP Projects

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PARISH CIAP PROJECTS

Program	State Project Number (Federal)	Project Name	Project Type	Agency/Sponsor	Senate District	House District	Parish	Acres Benefited	Construction Completion Date	Feasibility Cost	Engineering, Design, & Landrights Cost	Construction Cost	Project Summary	Planning Unit
CIAP	BS-17	Lake Lery Rim Re-Establishment and Marsh Creation	MC	BOEMRE/ FWS	1	103	StB.	300	Pending	N/A	$497,417	$8,188,293	The project proposes to dredge a waterway through Lake Lery historically used for navigation. The waterway is located approximately along the St. Bernard and Plaquemines Parish line. The project will utilize 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.	1
CIAP	PO-39	Bald Cypress/Tupelo Coastal Forest Protection	LA	BOEMRE/ FWS	18	88	Liv.	1,762	2011	N/A	$260,443	$2,774,290	The project location is within Livingston Parish, in the Maurepas Swamp of southeast Louisiana. The project area includes 2,590.4 contiguous acres of coastal wetland forest, specifically bald cypress-tupelo swamp, with roughly 200 acres fronting the western edge of Lake Maurepas.	1
CIAP	PO-40	Hydrologic Restoration in the West Lake Maurepas Swamps	HR	BOEMRE/ FWS	18	88	Liv.	6,458	Pending	N/A	$863,185	$2,594,680	The Amite River is located southwest of Lake Maurepas and east of I-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 during flood events on the river and from runoff of localized 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.	1
CIAP	PO-41	Update of St. Bernard Parish Coastal Zone Management Plan	PL	BOEMRE/ FWS	1	103	StB.	N/A	N/A	N/A	$200,000	N/A	Funds will be used so that the St. Bernard Parish Coastal Zone Management Plan may be updated.	1
CIAP	PO-42	West LaBranche Shoreline Protection	SP	BOEMRE/ FWS	19	56	StC.	N/A	Pending	N/A	N/A	$3,600,000	This project involves the continuation of the rock shoreline protection project on the south shore of Lake Pontchartrain 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.	1
CIAP	PO-43	East LaBranche Shoreline Protection	SP	BOEMRE/ FWS	19	56	StC.	N/A	Pending	N/A	N/A	$930,917	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.	1
CIAP	PO-45	East Bank Wastewater Assimilation Plant	MM	BOEMRE/ FWS	18	57	StJa.	2,400	Pending	N/A	N/A	$1,600,000	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.	1
CIAP	PO-46	Reserve Relief Canal Shoreline Protection Project	SP	BOEMRE/ FWS	19	57	StJo.	N/A	Pending	N/A	$283,015	$1,730,042	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.	1
CIAP	PO-48	Green Property Preservation Project	LA	BOEMRE/ FWS	11	90	StT.	27	2011	N/A	N/A	$1,345,000	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.	1
CIAP	PO-49	French Property Preservation Project	LA	BOEMRE/ FWS	11	90	StT.	40	2009	N/A	N/A	$1,718,150	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.	1
CIAP	PO-51	Mandeville Aquatic Ecosystem Restoration Project	MM	BOEMRE/ FWS	11	89	StT.	N/A	2010	N/A	N/A	$3,734,879	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.	1
CIAP	PO-52	Lake Pontchartrain Shoreline Protection	SP	BOEMRE/ FWS	6	73	Tang.	N/A	Pending	N/A	$699,400	$5,882,716	The project is located in Tangipahoa Parish between Pass Manchac and the mouth of the Tangipahoa River. The goal of the proposed project is to construct approximately 12,000 linear feet of foreshore protection.	1

PARISH CIAP PROJECTS

Program	State Project Number (Federal)	Project Name	Project Type	Agency/Sponsor	Senate District	House District	Parish	Acres Benefited	Construction Completion Date	Feasibility Cost	Engineering, Design, & Landrights Cost	Construction Cost	Project Summary	Planning Unit
CIAP	PO-53	Wetland Wastewater Assimilation Process Planning	PL	BOEMRE/ FWS	18	58	StJa.	N/A	2009	N/A	$49,994	N/A	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 report will 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.	1
CIAP	PO-70	Northshore Beach Marsh Creation/Restoration	MC	BOEMRE/ FWS	11	90	StT.	600	Pending	N/A	N/A	$1,860,558	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 11 Canal, and Bayou Bonfouca and associated canals. 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.	1
CIAP	PO-71	Waterline Booster Pump Station, East Bank	INF	BOEMRE/ FWS	18	58	StJa.	N/A	2011	N/A	N/A	$265,100	The project would construct a waterline booster pump along LA Highway 44 in Convent, Louisiana in St. James Parish. The construction includes housing a 40 hp motor with a 1,100 gallon/minute high-service pump and connecting to the existing 10 inch PVC 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.	1
CIAP	BA-50	Bayside Segmented Breakwaters at Grand Isle	SP	BOEMRE/ FWS	8	105	Jef.	N/A	2012	N/A	$307,709	$2,989,653	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.	2
CIAP	BA-51	Goose Bayou Ridge Creation and Shoreline Protection	PL	BOEMRE/ FWS	8	105	Jef.	1,200	2011	N/A	$165,935	N/A	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 Goose Bayou. This project will help establish a wetland ridge which will function as habitat for native species of plants and animals.	2
CIAP	BA-52	Lower Lafitte Shoreline Stabilization at Bayou Rigolettes	SP	BOEMRE/ FWS	8	105	Jef.	N/A	Pending	N/A	$387,986	$7,642,385	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 revetment will be constructed, along with a water control structure in order to protect the interior marshes.	2
CIAP	BA-53	Maritime Forest Ridge Restoration	VP	BOEMRE/ FWS	20	54	Laf.	60	N/A	N/A	$700,000	N/A	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 Neo-tropical songbirds that cross the Gulf of Mexico, in addition to providing wetland habitat for coastal plant and animal species.	2
CIAP	BA-54	Northwest Little Lake Marsh Creation and Enhancement	DM MC VP	BOEMRE/ FWS	20	54	Laf.	100	2011	N/A	$222,430	$2,209,910	This project, located in Lafourche Parish, will use dedicated dredge material to create 30-40 acres of wetlands 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.	2
CIAP	BA-56	Update of the Plaquemines Parish Coastal Management Plan	PL	BOEMRE/ FWS	1	105	Plaq.	N/A	N/A	N/A	$300,000	N/A	Funds will be allocated to the Parish so that they may update their coastal management plan.	2
CIAP	BA-57	Tidewater Road Flood Protection	INF	BOEMRE/ FWS	1	105	Plaq.	N/A	2010	N/A	N/A	$3,364,310	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 length there is open water in canals and ponds that abut 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.	2

PARISH CIAP PROJECTS

Program	State Project Number (Federal)	Project Name	Project Type	Agency/Sponsor	Senate District	House District	Parish	Acres Benefited	Construction Completion Date	Feasibility Cost	Engineering, Design, & Landrights Cost	Construction Cost	Project Summary	Planning Unit
CIAP	BA-59	Waterline Booster Pump Station, West Bank	INF	BOEMRE/ FWS	18	58	StJa.	N/A	2009	N/A	N/A	$256,700	This project would construct a waterline booster pump station in Welcome, Louisiana. The proposed site is located near Section 43, T-11-S, 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 tied 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.	2
CIAP	BA-61	West Bank Wetland Conservation and Protection	LA	BOEMRE/ FWS	18	58	StJa.	235	2010	N/A	N/A	$718,620	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.	2
CIAP	BA-62	West Bank Wastewater Assimilation Plant	MM	BOEMRE/ FWS	18	58	StJa.	2,400	Pending	N/A	N/A	$1,757,026	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.	2
CIAP	BA-63	Small Dredge Program	DM MC	BOEMRE/ FWS	20	54	Laf.	175	2010	N/A	$160,250	$2,789,031	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, cheniers and roadways in Lafourche Parish.	2
CIAP	BA-64	Jump Basin Dredging and Marsh Creation	MC	BOEMRE/ FWS	1	105	Plaq.	7	Pending	N/A	N/A	$800,000	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 is 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.	2
CIAP	BA-65	Fifi Island Restoration Extension	BI	BOEMRE/ FWS	8	105	Jef.	6	Pending	N/A	$208,251	$2,338,605	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.	2
CIAP	NA	Culvert Installation Through Existing Berms and Board Roads	LA	BOEMRE/ FWS	18	58	StJa.	N/A	Pending	N/A	N/A	$90,686	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.	2
CIAP	PO-90	West Lac Des Allemands Shoreline Protection	SP	BOEMRE/ FWS	18	58	StJo.	N/A	Pending	N/A	$507,369	$3,313,183	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.	2
CIAP	CS-36	Shoreline Protection at Intracoastal Park	SP	BOEMRE/ FWS	27	36	Cal.	3	Pending	N/A	N/A	$1,000,000	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.	4
CIAP	CS-37	South GIWW Restoration	HR SP	BOEMRE/ FWS	30	36	Cal.	2,500	Pending	N/A	$83,074	$525,459	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.	4

PARISH CIAP PROJECTS

Program	State Project Number (Federal)	Project Name	Project Type	Agency/Sponsor	Senate District	House District	Parish	Acres Benefited	Construction Completion Date	Feasibility Cost	Engineering, Design, & Landrights Cost	Construction Cost	Project Summary	Planning Unit
CIAP	CS-41	Horseshoe Lake Marsh Restoration	HR SP	BOEMRE/ FWS	30	33	Cal.	1,200	Pending	N/A	$350,000	$1,650,000	The project is a 1,200 acre marsh restoration/protection project located in Calcasieu Parish, Louisiana, approximately 3.0 miles northwest of Hackberry. This project proposes four different components: 1. Two water control structures; 2. Four miles of new levee construction; 3. Repair of 1 mile of existing levee on the eastern and western boundaries; and 4. Placement of approximately four miles of rip rap rock dike along the Gulf Intracoastal Waterway (GIWW).	4
CIAP	CS-42	South Johnson Bayou Restoration	HR MM	BOEMRE/ FWS	25	47	Cam.	N/A	Pending	N/A	$54,000	$618,700	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.	4
CIAP	CS-43	Dreary Island Restoration	HR MM	BOEMRE/ FWS	25	47	Cam.	600	2012	N/A	$48,000	$514,850	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 refurbishment of approximately 4,000 linear feet of adjacent levees. The new structures will reduce saltwater intrusion into the project area and restore historic salinity and hydrologic regimes. Without this project the 600-acre intermediate and brackish marsh will experience extensive interior marsh loss.	4
CIAP	CS-44	Rabbit Island	DM MC SP	BOEMRE/ FWS	25	47	Cal. Cam.	200	Pending	N/A	$440,540	$1,559,460	The project is located in the Calcasieu-Sabine Basin, in the West Cove of Calcasieu 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.	4
CIAP	CS-48	Bank Stabilization: Dugas Cut to Kelso Bayou	PL	BOEMRE/ FWS	25	47	Cam.	N/A	N/A	N/A	$580,000	N/A	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.	4
CIAP	CS-50	East Little Pecan Bayou Restoration	HR	BOEMRE/ FWS	26	47	Cam.	1,500	2010	N/A	$37,611	$638,030	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 salinity and water levels can be restored to approximately 1,500 acres of marsh.	4
CIAP	CS-51	Little Chenier Road	HR INF	BOEMRE/ FWS	25	47	Cam.	N/A	2010	N/A	$16,493	$262,888	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 two feet to an elevation 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.	4
CIAP	CS-52	Clear Marais Bank Protection	SP	BOEMRE/ FWS	30	36	Cal.	1,500	Pending	N/A	$175,000	$1,825,000	The project is located north of the Gulf Intracoastal Waterway (GIWW) approximately 10 miles northwest of Hackberry in Calcasieu Parish, Louisiana. The 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.	4
CIAP	ME-26	West Big Burn Bridge Restoration	HR MM	BOEMRE/ FWS	25	47	Cam.	10,000	2010	N/A	$52,572	$970,138	This proposal refers to the Chenier 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.	4
CIAP	ME-27	South Little Pecan Bayou Restoration	HR MM	BOEMRE/ FWS	25	47	Cam.	24,600	Pending	N/A	$133,641	$1,735,121	This proposal refers to the Chenier Plain portion of Coast 2050, Region 4, Little Pecan 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 refurbishment of portions of three miles of existing levees (adding in some locations 2 feet of material to return the levees to +3 feet NAVD).	4

PARISH CIAP PROJECTS

Program	State Project Number (Federal)	Project Name	Project Type	Agency/Sponsor	Senate District	House District	Parish	Acres Benefited	Construction Completion Date	Feasibility Cost	Engineering, Design, & Landrights Cost	Construction Cost	Project Summary	Planning Unit
CIAP	ME-30	North Mermentau Restoration	HR MM	BOEMRE/ FWS	25	47	Cam.	10,000	2011	N/A	$211,141	$3,006,631	This project will replace 12 existing water control structures that are not currently functioning as designed and also refurbish 1.5 miles of adjacent levees. Cameron Parish will purchase the structures that will be installed by the local gravity drainage district. The objective is to restore the pre-Hurricane Rita salinity and water levels to approximately 10,000 acres of marsh.	4
CIAP	NA	Calcasieu Parish Administrative Assistance	PL	BOEMRE/ FWS	27	36	Cal.	N/a	N/A	N/A	$20,000	N/A	This project will provide necessary financial assistance to Calcasieu Parish Government to manage and implement the CIAP program.	4
CIAP	TE-59	Attakapas Canal Hydrologic Restoration	DM HR	BOEMRE/ FWS	21	60	Asu.	12	Pending	N/A	$48,000	$977,000	This project will remove excessive accumulated sediment from Attakapas Canal at its intersection with Lake Verret 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 cypress habitat along the shoreline of Lake Verret. As part of the project, cypress trees will be planted at the rate of 302 trees per restored acre.	3a
CIAP	TE-60	Lake Verret Swamp and Lake Rim Restoration	DM MC	BOEMRE/ FWS	21	60	Asu.	40	Pending	N/A	$115,000	$4,634,146	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.	3a
CIAP	AT-06	Point Chevreuil Shoreline Protection	MC SP	BOEMRE/ FWS	21	50	StM.	25	Pending	N/A	$204,461	$1,655,704	The project is located in Region 3, Atchafalaya River Basin, St. Mary Parish, along the southeastern shoreline of East Cote Blanche Bay, around Point Chevreuil and the northwestern shoreline of Atchafalaya Bay. The eroding shoreline was caused by the open water fetch and resulting wave energy from East Cote Blanche and Atchafalaya Bays. Project features will protect the natural ridge functions of the Bayou Sale Ridge and protect the adjacent marshes.	3b
CIAP	AT-07	Deer Island Pass Realignment	DM HR MC	BOEMRE/ FWS	21	51	StM.	50	Pending	N/A	$313,413	$2,440,352	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.	3b
CIAP	AT-08	Bayou Amy Boat Launch and Educational Pavilion	PA	BOEMRE/ FWS	22	46	StMt.	N/A	Pending	N/A	$47,950	$342,050	This project located in St. Martin Parish will construct an open-air pavilion and a 1,235 foot long nature trail adjacent to an existing wilderness canoe 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.	3b
CIAP	AT-09	Stephensville Wastewater Assimilation and Facility Restoration	MM	BOEMRE/ FWS	21	50	StMt.	5	Pending	N/A	N/A	$2,200,002	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 wetlands for wetland assimilation. Stephensville's wastewater facility is located in Stephensville along Bayou Milhomme in Lower St. Martin Parish.	3b
CIAP	AT-10	Beau Bayou Water Quality and Sediment Reduction	HR SNT	BOEMRE/ FWS	22	46	StMt.	23,000	Pending	N/A	$340,960	$3,360,461	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.	3b
CIAP	TV-24	Weeks Bay/Commercial Canal Marsh Creation and Shoreline Protection	PL	BOEMRE/ FWS	22	49	Ibe. Ver.	N/A	N/A	$200,000	N/A	N/A	Feasibility Study of methods of marsh creation to build landmass and create vegetated wetlands. 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.	3b
CIAP	TV-25	Port of Iberia Bridge Replacement - Port Road over Rodere Lateral	INF	BOEMRE/ FWS	22	49	Ibe.	N/A	2012	N/A	$66,465	$391,807	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 Iberia handles a substantial amount of OCS produced products and the large equipment used in transporting these products take a major toll on the port¿s bridges and roadways.	3b

PARISH CIAP PROJECTS

Program	State Project Number (Federal)	Project Name	Project Type	Agency/Sponsor	Senate District	House District	Parish	Acres Benefited	Construction Completion Date	Feasibility Cost	Engineering, Design, & Landrights Cost	Construction Cost	Project Summary	Planning Unit
CIAP	TV-32	Lake Sand Terracing	MC SP VP	BOEMRE/ FWS	22	49	Ibe.	55	2013	N/A	$66,500	$1,094,130	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.	3b
CIAP	TV-33	Lake Tom Terracing	MC SP VP	BOEMRE/ FWS	22	49	Ibe.	55	2013	N/A	$66,500	$645,554	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 55 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.	3b
CIAP	TV-35	Vermilion Bay Shoreline Restoration	SP VP	BOEMRE/ FWS	22	49	Ibe.	132	2012	N/A	$330,000	$4,662,196	The project is located along the Vermilion Bay Shoreline south of Tigre Lagoon; it will establish approx. 8,300 linear feet of shoreline using the wave dampening structure determined to be most feasible. These structures will also allow for sediment trapping and accretion.	3b
CIAP	TV-36	Planning Assistance and Administration (St. Mary Parish)	PL	BOEMRE/ FWS	21	50	StM.	N/A	N/A	N/A	$25,000	N/A	This project will provide necessary financial assistance to St. Mary Parish Government to manage and implement the CIAP program.	3b
CIAP	TV-37	Burns Point Recreation Park Improvements	SP	BOEMRE/ FWS	21	50	StM.	N/A	2011	N/A	N/A	$1,010,000	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.	3b
CIAP	TV-38	Thorguson Road Improvements	INF	BOEMRE/ FWS	21	50	StM.	N/A	2012	N/A	$134,000	$1,018,761	The project is located in Berwick and extends to Morgan City in St. Mary Parish. This project will upgrade Thorguson Road from Hwy 90 to the River 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 facilities located in Berwick, Louisiana.	3b
CIAP	TV-40	Vermilion Parish CZM Planning and Development	PL	BOEMRE/ FWS	26	47	Ver.	N/A	N/A	N/A	$100,000	N/A	Funds will be available to assist Vermilion Parish in improvements to the Coastal Zone Management plan for the parish.	3b
CIAP	TV-41	Shoreline Protection on Southwest Point at Southwest Pass	PL	BOEMRE/ FWS	26	47	Ver.	N/A	N/A	N/A	$217,782	N/A	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 funds 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.	3b
CIAP	TV-44	Henry Hub Acess Improvements - Highway 331 Realignment	INF	BOEMRE/ FWS	26	49	Ver.	N/A	Pending	N/A	$39,500	$272,299	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.	3b
CIAP	TV-45	Shoreline Protection and Marsh Creation at Tiger Point	SP	BOEMRE/ FWS	26	47	Ver.	N/A	Pending	N/A	$186,455	$1,199,130	This project will install 1,500 feet of cement bags at Tiger Point in Vermilion Parish to slow erosion rates by half.	3b
CIAP	TV-46	Henry Hub Access Improvements - Charlie Field Road Bridge Replacement	INF	BOEMRE/ FWS	26	49	Ver.	N/A	2011	N/A	$67,000	$371,201	This project will replace an existing three span timber bridge with a four span concrete deck bridge for the Charlie Field Road Bridge across a tributary of Bayou Tigre. The bridge is located approximately 2,300 feet south of LA Hwy. 14, in eastern Vermilion Parish.	3b
CIAP	TV-49	Intracoastal City Street Improvements	INF	BOEMRE/ FWS	26	47	Ver.	N/A	2011	N/A	$51,400	$469,416	This project provides for the reconstruction of several roadways in the Intracoastal City area to mitigate the damage caused by heavy oilfield support truck traffic over the years. The streets to be improved are as follows: Offshore Road (4,700 linear feet), M. I. Liquid Road (850 linear feet), Barge Road (1,450 linear feet), Teal Road (1,200 linear feet).	3b

PARISH CIAP PROJECTS

Program	State Project Number (Federal)	Project Name	Project Type	Agency/Sponsor	Senate District	House District	Parish	Acres Benefited	Construction Completion Date	Feasibility Cost	Engineering, Design, & Landrights Cost	Construction Cost	Project Summary	Planning Unit
CIAP	TV-50	Henry Hub Access Improvements - Charlie Field Road Improvements	INF	BOEMRE/ FWS	26	49	Ver.	N/A	2012	N/A	$87,270	$442,000	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.	3b
CIAP	TV-51	Oyster Reef Parallel to Cheniere au Tigre	SP	BOEMRE/ FWS	26	47	Ver.	N/A	Pending	N/A	$209,800	$1,229,184	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 erosion, and increase recreational fishing opportunities.	3b
CIAP	TV-53	North Prong Schooner Bayou	FD SP	BOEMRE/ FWS	26	49	Ver.	N/A	2010	N/A	$54,277	$1,595,723	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 Mermentau Basin.	3b

Program: CIAP= Coastal Impact Assistance Program

Project Type: BI=Barrier Island; DM=Beneficial Use of Dredged Material; FD=Freshwater Diversion; HP=Hurricane Protection; HR=Hydrologic Restoration; INF=Infrastructure; LA=Land Acquisition; MC=Marsh Creation; MM=Marsh Management; OM=Outfall Management; PA=Public Access; PL=Planning; SD=Sediment Diversion; SNT=Sediment and Nutrient Trapping; SP=Shoreline Protection; VP=Vegetation Planting.

Agency/Sponsor: BOEMRE= Bureau of Ocean Energy Management, Regualtion, and Enforcement; FWS= US Fish and Wildlife Service. The administration of CIAP was transferred from BOEMRE to FWS on Oct. 1, 2011.

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

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Appendix E

Inventory of Non-State Projects

B. Federal Protection Projects

EAST JEFFERSON LEVEE DISTRICT LEVEE ALIGNMENTS & STRUCTURES

Legend

Levee Construction Type

- Earthen Levee
- I-Wall
- Sheet Pile
- Control Structure
- Control Structure
- Flood Gate
- Pump Station
- Water Bodies

CPRA
Coastal Protection and Restoration Authority of Louisiana

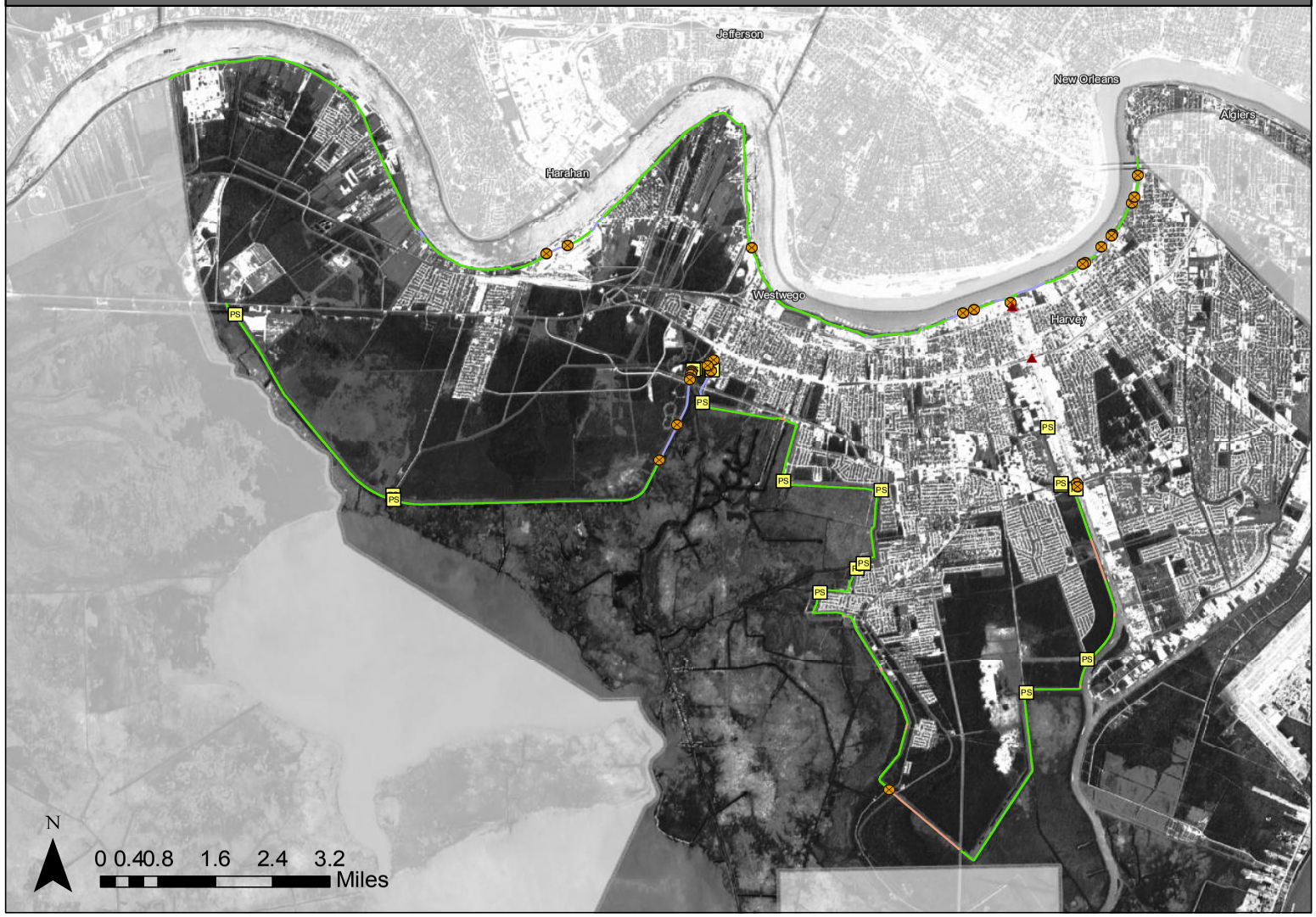
Map by: Louisiana Office of Coastal Protection & Restoration

Date: April 28, 2009

Imagery: 2000 SPOT

Data Sources:
USACE
LA OCPR

WEST JEFFERSON LEVEE DISTRICT LEVEE ALIGNMENTS & STRUCTURES



Legend

Levee construction types

- Earthen Levee
- I-Wall
- Sheet Pile
- Control Structure
- Flood Gate
- Pump Station
- Water Bodies

Map by: Louisiana Office of Coastal Protection & Restoration

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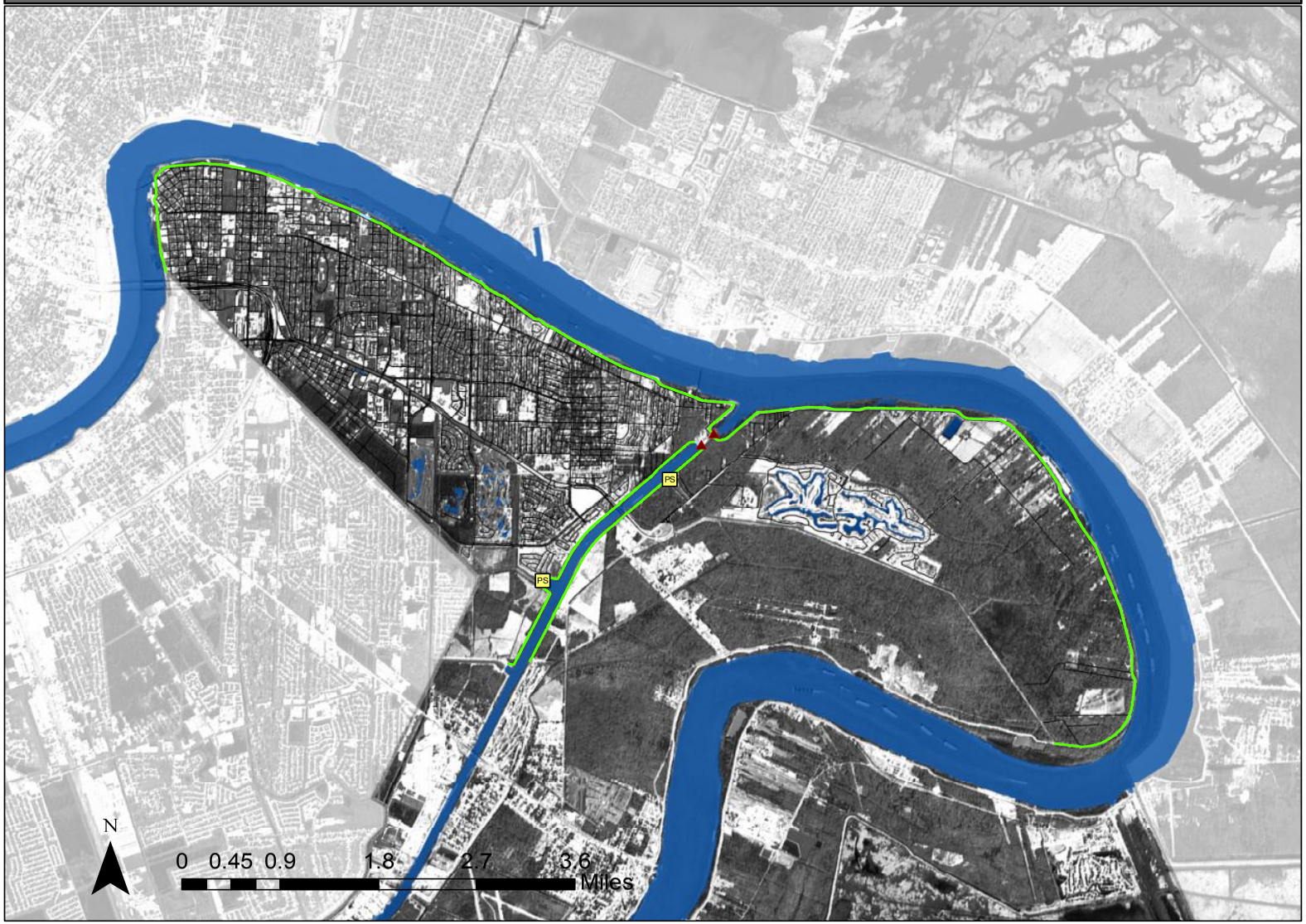
Imagery: 2000 SPOT

Data Sources:
USACE
LA OCPR

CPRA
Coastal Protection and Restoration Authority of Louisiana

ALGIERS LEVEE DISTRICT LEVEE ALIGNMENTS & STRUCTURES



Legend

Levee Construction Type

- Earthen Levee
- I-Wall
- Control Structure
- Control Struture
- Pump Station
- Water Bodies

CPRA
Coastal Protection and Restoration Authority of Louisiana

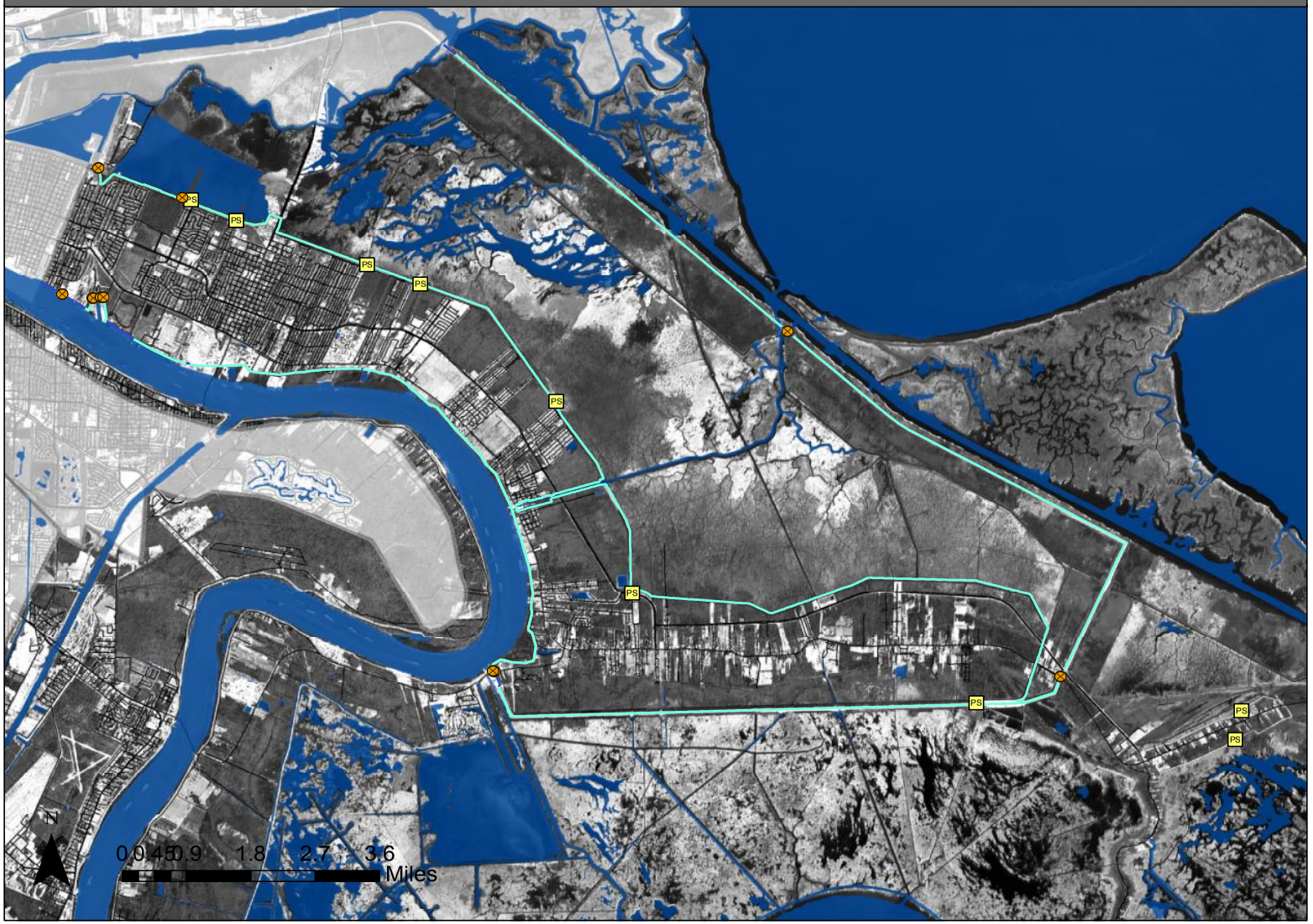
Map by: Louisiana Office of Coastal Protection & Restoration

Date: April 28, 2009

Imagery: 2000 SPOT

Data Sources:
USACE
LA OCPR

LAKE BORGNE BASIN LEVEE DISTRICT LEVEE ALIGNMENTS & STRUCTURES



Legend

Levee Construction Type

- Earthen Levee
- I-wall
- Control Structure
- Flood Gate
- Pump Station
- Water Bodies

CPRA
Coastal Protection and Restoration Authority of Louisiana

Map by: Louisiana Office of Coastal Protection & Restoration

Date: April 28, 2009

Imagery: 2000 SPOT

Data Sources:
USACE
LA OCPR

ORLEANS LEVEE DISTRICT LEVEE ALIGNMENTS & STRUCTURES

Legend

- Earthen Levee
- I-Wall
- T-Wall
- L-Wall
- Sheet Pile
- Control Stucture
- Flood Gate
- Pump Station
- Water Bodies

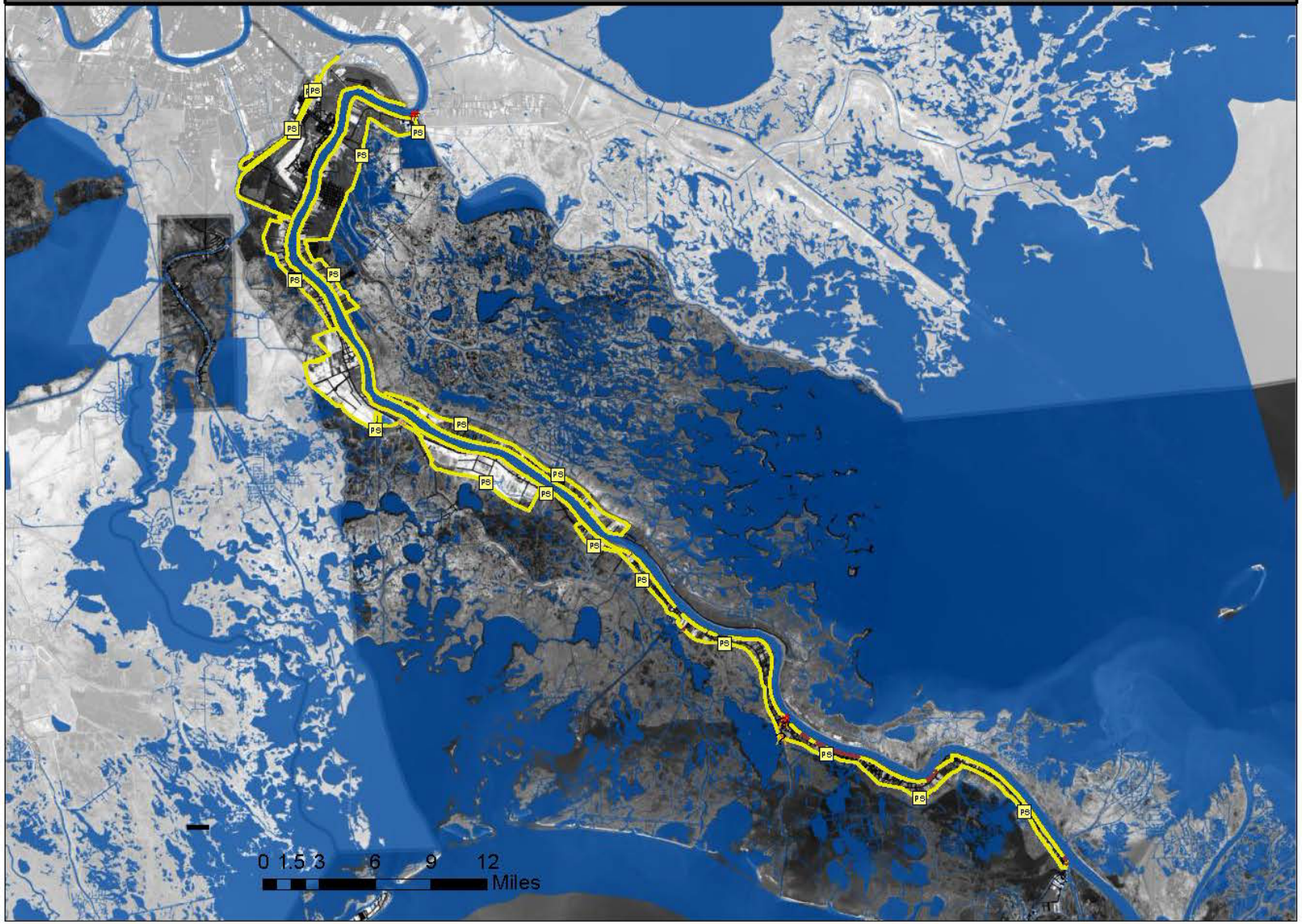
Map by: Louisiana Office of Coastal Protection & Restoration

Date: April 28, 2009

Imagery: 2000 SPOT

Data Sources:
USACE
LA OCPR

PLAQUEMINES PARISH GOVERNMENT LEVEE ALIGNMENTS & STRUCTURES



Legend

Levee Construction Type

- Control Structure
- Earthen Levee
- I-Wall
- Sheet Pile
- T-Wall
- Control Structure
- Flood Gate
- Pump Station
- Water Bodies

CPRA
Coastal Protection and Restoration Authority of Louisiana

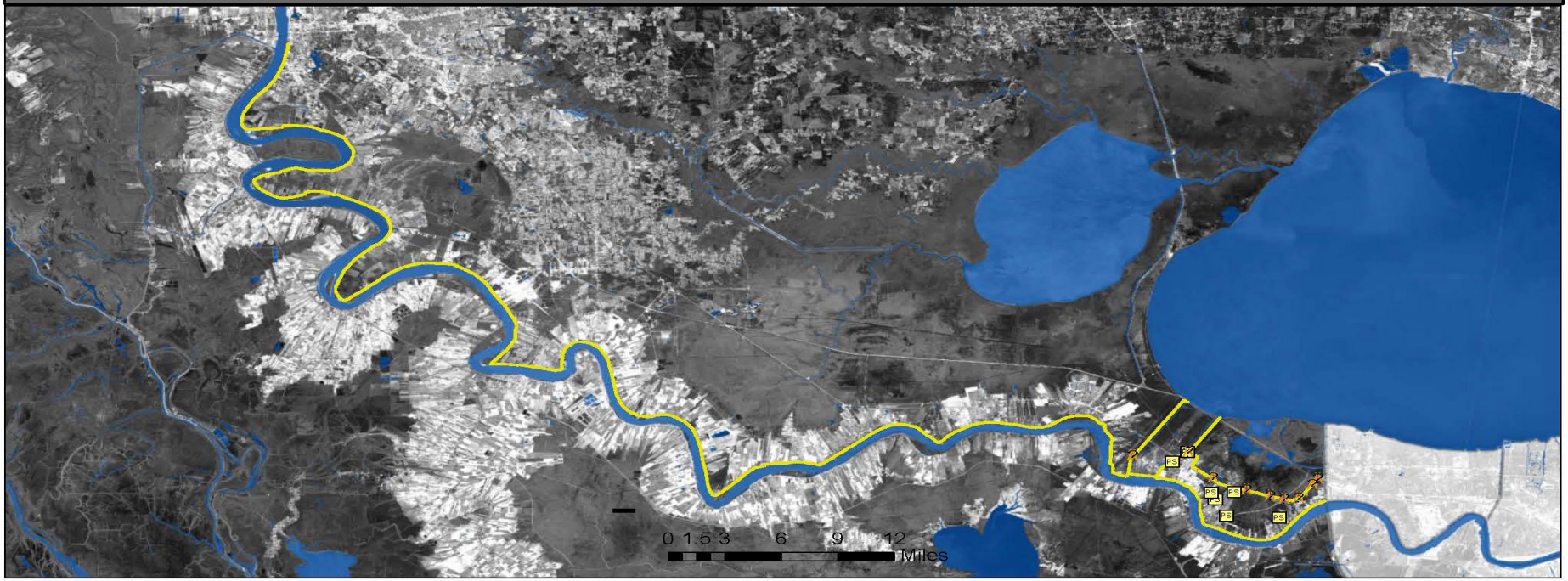
Map by: Louisiana Office of Coastal Protection & Restoration

Date: April 28, 2009

Imagery: 2000 SPOT

Data Sources:
USACE
LA OCPR

PONTCHARTRAIN LEVEE DISTRICT LEVEE ALIGNMENTS & STRUCTURES



Map by: Louisiana Office of Coastal Protection & Restoration

Date: April 28, 2009

Imagery: 2000 SPOT

Data Sources:
USACE
LA OCPR

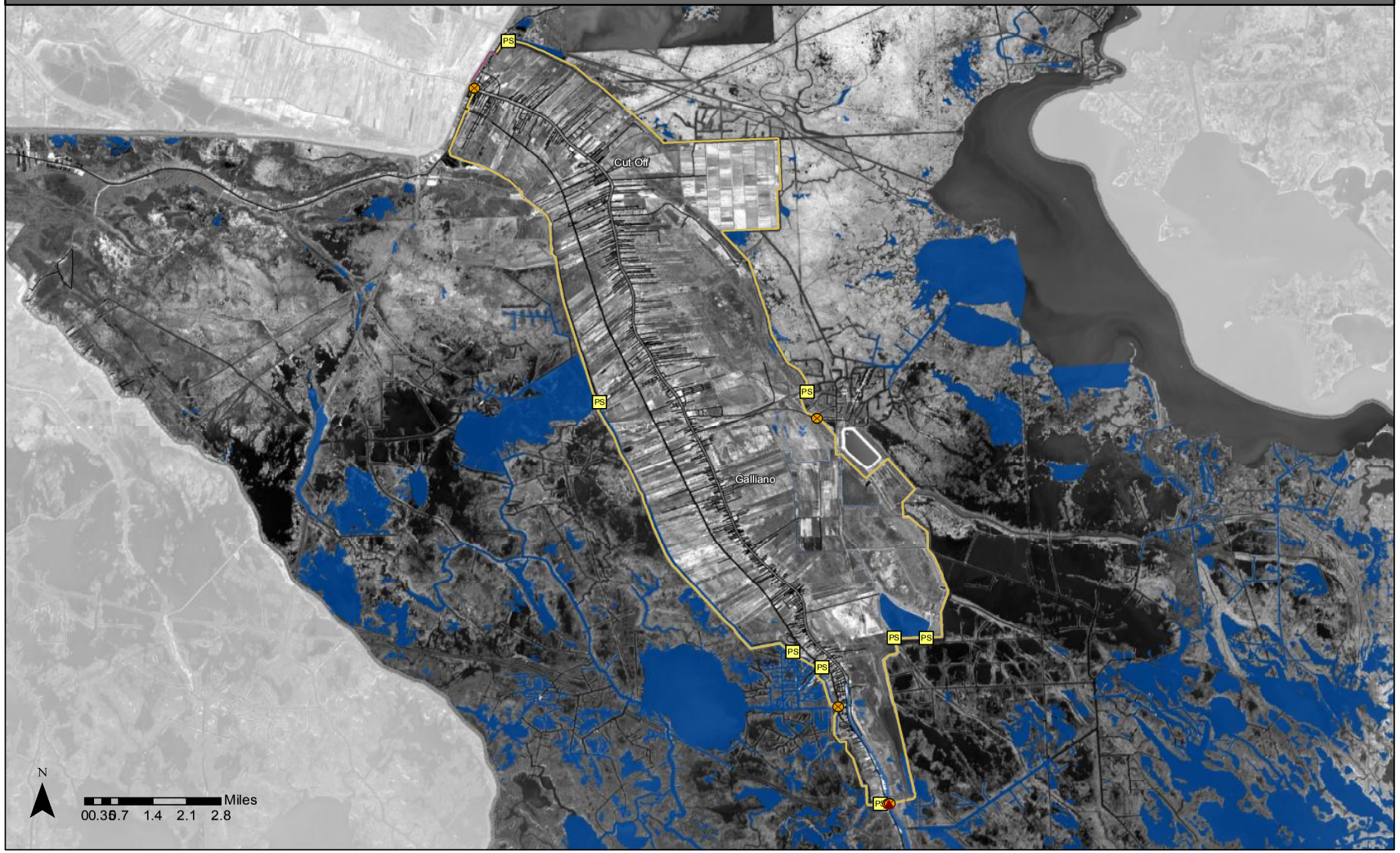
Legend

Levee Construction Type

- I-Wall
- Earthen Levee
- Control Structure

- Flood Gate
- Pump Station
- Water Bodies

SOUTH LAFOURCHE LEVEE DISTRICT LEVEE ALIGNMENTS & STRUCTURES



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Levee construction types

- Earthen Levee
- I-Wall
- Sheet Pile
- Control Structure
- Flood Gate
- Pump Station
- Water Bodies

Map by: Louisiana Office of Coastal Protection & Restoration

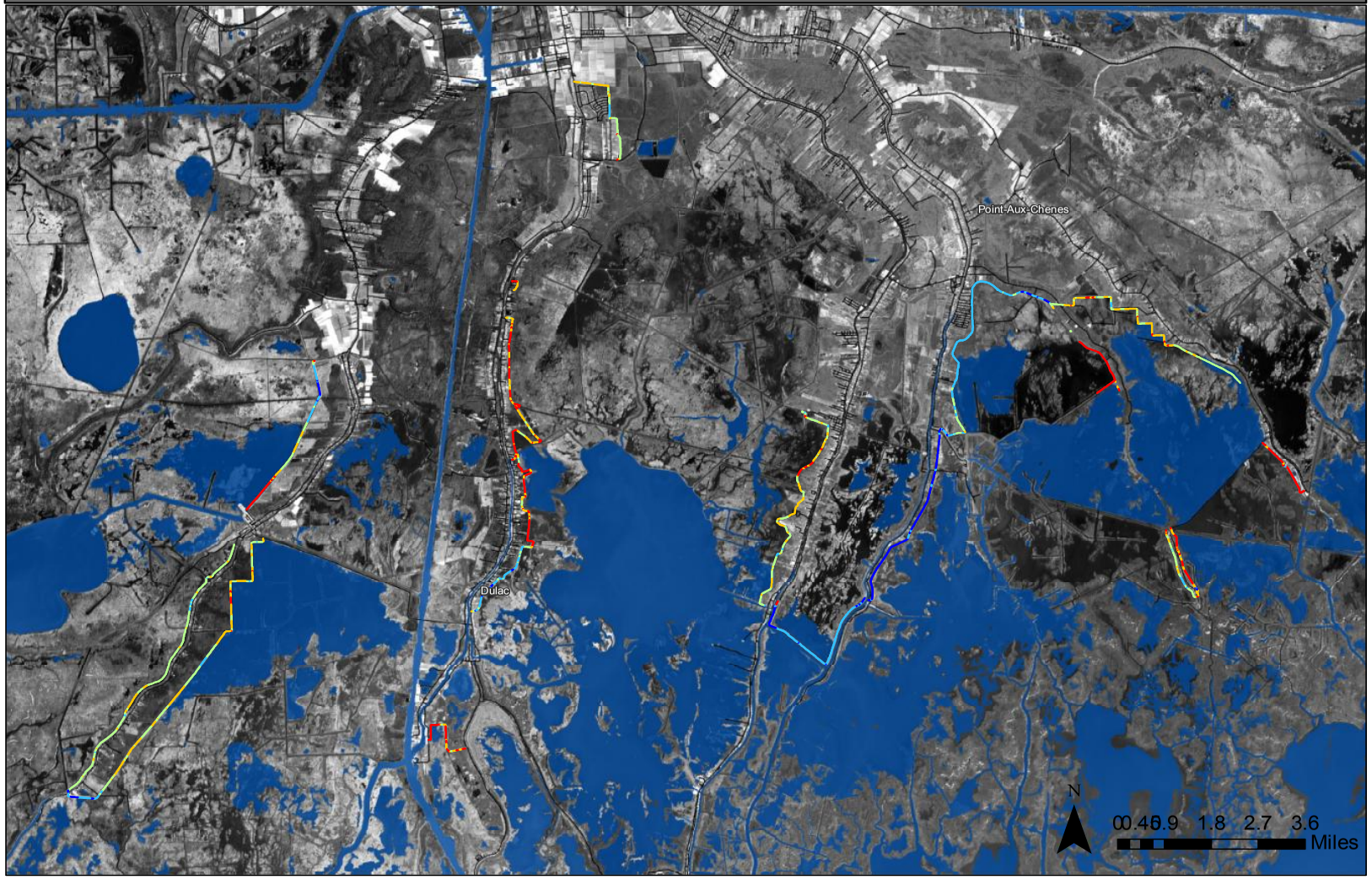
Date: April 28, 2009

Imagery: 2000 SPOT

Data Sources:
USACE
LA OCPR

CPRA
Coastal Protection and Restoration Authority of Louisiana

TERREBONNE LEVEE & CONSERVATION DISTRICT LEVEE ELEVATIONS



Legend

Levee Elevation (Ft)

- 2.4 - 5.5
- 5.6 - 6.8
- 6.9 - 8.2
- 8.3 - 10.0
- 10.1 - 12.7
- Water Bodies

Map by: Louisiana Office of Coastal Protection & Restoration

Date: April 28, 2009

Imagery: 2000 SPOT

Data Sources:
USACE
LA OCPR

CPRA
Coastal Protection and Restoration Authority of Louisiana

Appendix E

Inventory of Non-State Projects

C. Projects and Project Concepts in Coastal Parish Master Plans

PROJECT CONCEPTS FROM COASTAL PARISH MASTER PLANS

Program	Local Project Number	Project Name	Project Type	Senate District	House District	Parish	Project Costs	Project Summary	Planning Unit
State and Local	JE-1	LaBranche Wetlands Drainage Diversion	FD	8	105	Jef.	$855,000	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 divert storm water drainage into the LaBranche Wetlands for hydrologic restoration. The storm water would be diverted at the northernmost feasible location to maximize the wetland area benefitted and the level of water quality enhancement.	1
N/A	N/A	Breton Sound	MC	1	105	Plaq.	Not provided	Breton Sound Fringe Marsh Barriers.	1
N/A	N/A	Baptiste Collete	MC	1	105	Plaq.	Not provided	Baptiste Collette and Surrounding Marshes.	1
N/A	N/A	American/Califomia bay	FD	1	105	Plaq.	Not provided	American/California bay/Bohemia Diversion.	1
N/A	N/A	Bayou Lamoque	FD	1	105	Plaq.	Not provided	Bayou Lamoque Diversion.	1
N/A	N/A	Caemarvon	FD	1	105	Plaq.	Not provided	Caernarvon Diversion.	1
N/A	N/A	Fort St. Phillip	FD	1	105	Plaq.	Not provided	Fort St. Phillip Diversion.	1
N/A	N/A	Grand Bay	FD	1	105	Plaq.	Not provided	Grand Bay Diversion.	1
N/A	N/A	White Ditch	FD	1	105	Plaq.	Not provided	White's Ditch Diversion.	1
N/A	N/A	Breton Land bridge	MC	1	105	Plaq.	Not provided	Breton Sound Land Bridge.	1
N/A	N/A	Baptiste Collete-Fort St. Phillip	RR	1	105	Plaq.	Not provided	Baptiste Collette to Fort St. Phillip Ridge Reforestation.	1
N/A	N/A	Bohemia-White's Ditch	RR	1	105	Plaq.	Not provided	Back Levee Canal-Bohemia to White's Ditch Ridge Reforestation.	1
N/A	N/A	Caemarvon	RR	1	105	Plaq.	Not provided	Unnamed Ridges South of Caernarvon Ridge Reforestation.	1
N/A	N/A	Caemarvon	RR	1	105	Plaq.	Not provided	Unnamed Ridges South of Caernarvon Ridge Reforestation.	1
N/A	N/A	Fort St. Phillip-Ostrica	RR	1	105	Plaq.	Not provided	Fort St. Phillip to Ostrica Lock Ridge Reforestation.	1
N/A	N/A	Ostrica-Bayou Lamoque	RR	1	105	Plaq.	Not provided	Ostrica Lock to Bayou Lamoque Ridge Reforestation.	1
N/A	N/A	River aux Chenes	RR	1	105	Plaq.	Not provided	River Aux Chenes Ridge Reforestation.	1
N/A	N/A	Breton Sound	SP	1	105	Plaq.	Not provided	Breton Sound Fringe Marsh.	1
N/A	N/A	Violet	FD	1	103	StB.	Not provided	Violet Diversion.	1
N/A	N/A	Lake Borgne	SP, OR	1	103	StB.	Not provided	Lake Borgne surge breaker/reef.	1
N/A	N/A	Bayou Terre aux Boeufs/ La Loutre	MC	1	103	StB.	Not provided	Marsh Creation-Bayou Terre aux Boeufs to Bayou la Loutre Land Bridge.	1
N/A	N/A	Biloxi Marsh	MC	1	103	StB.	Not provided	Biloxi Marsh Creation.	1
N/A	N/A	Central Wetlands	MC	1	103	StB.	Not provided	Central Wetlands Marsh Creation.	1
N/A	N/A	Lake Borgne/MRGO	MC	1	103	StB.	Not provided	MRGO/Lake Borgne Landbridge Marsh Creation.	1
N/A	N/A	Orleans Landbridge	MC	1	103	StB.	Not provided	Orleans Landbridge Marsh Creation.	1
N/A	N/A	Biloxi Marsh	SP, OR	1	103	StB.	Not provided	Biloxi Marsh Oyster Reefs/Shoreline Protection.	1
N/A	N/A	Lake Borgne	SP	1	103	StB.	Not provided	Lake Borgne Shoreline Protection-MRGO Land Bridge.	1
N/A	N/A	Orleans Landbridge	SP	1	103	StB.	Not provided	Orleans Landbridge shoreline protection.	1
N/A	N/A	St. Bernard Parish	OR	1	103	StB.	Not provided	Develop Oyster reefs as shoreline barrier-Biloxi Marsh.	1
CWPPRA	NA-9	Bayou Dupont Sediment Delivery Expansion	MC	8	105	Jef.	$25,000,000	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.	2
CWPPRA	PR-1	Bayou Rigolettes, Bayou Perot, and Harvey Cut Channel Management	HR	8	105	Jef.	$2,770,000	This project would restore hydrologic conditions at the critical Land Bridge area by plugging several oil and gas canals, restricting channel dimensions at Harvey Cut, and restricting channel dimensions at the Bayou Perot/ Little Lake intersection.	2
CWPPRA	MG-3	Dupre Cut Project (BA-26) Wetland Restoration	MC	8	105	Jef.	$45,880,000	The project includes the development of an area-wide sediment delivery system. This system would utilize sediments that are hydraulically-dredged from the Mississippi River, and transported via slurry pipelines to the targeted marsh sites. The existing rock dikes at Dupre Cut will act as a retention feature to ensure that the sediments are successfully distributed into the target areas.	2

PROJECT CONCEPTS FROM COASTAL PARISH MASTER PLANS

Program	Local Project Number	Project Name	Project Type	Senate District	House District	Parish	Project Costs	Project Summary	Planning Unit
CWPPRA	MG-5	South Shore of The Pen Shoreline Protection/ Stabilization	MC, SP	8	105	Jef.	$34,800,000	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 dike along the southeastern shoreline of The Pen and using a dedicated dredge to place materials behind it. Phase III would consist of reinforcing the existing protection along the southwestern shore of The Pen and filling the area behind the protection with dredged material.	2
CWPPRA	PR-2	Dupre Cut/ Barataria Bay Waterway Channel Management	HR	8	105	Jef.	$7,600,000	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 saltwater intrusion, tidal prism, and enhance freshwater retention.	2
CWPPRA	BS-1	PPL 3 (XBA-1c) Grand Pierre Island Restoration	SP	8	105	Jef.	N/A	The project would reconstruct breached shorelines, then restore interior marsh elevations and sand dune features.	2
CWPPRA	PR-7	Land Bridge Shoreline Protection Extension and Wetland Restoration	MC, SP	8	105	Jef.	$39,000,000	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 erosion 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 closure and wetland fill targets would be established during project design to maximize project effectiveness and minimize oil and gas impacts.	2
CWPPRA	NA-3	Goose Bayou to Cypress Bayou Shoreline Protection	SP	8	105	Jef.	$5,000,000 - $25,000,000	Approximately 8,000 linear feet of additional shoreline protection would be added along the west side of Goose Bayou to its intersection with Cypress Bayou. A dedicated dredge would the move sediment from the bottom of The Pen to the area behind the shoreline protection. The deposited material would be built into a topographic ridge to restore the historic function of ridges in the project area. The artificial ridge would be planted with woody vegetation.	2
CWPPRA	BI-4	Elmer's Island and West Grand Terre Oak Ridge Restoration	BI	8	105	Jef.	$3,000,000	This project will restore the natural ridges that historically sustained the growth of Oak Trees. The restored ridges would then be vegetated.	2
CWPPRA	FN-1	Caminada Chenier Restoration	BI	8	105	Jef.	$19,000,000	This project will restore the areas natural chenier plain morphology by restoring the elevation and integrity of approximately seven deteriorated ridges. Existing ridges would be followed and breaches would be plugged to interconnect remaining ridge features. The project would also provide for the restoration of former borrow pits along LA Highway 1. Restoration of the former borrow pits would include the degradation of pit 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.	2
CWPPRA	MG-1	Myrtle Grove Natural Ridge Restoration	RR	8	105	Jef.	$6,230,000	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 ridge would be constructed along a portion of the north bank of Bayou Dupont that lies between its intersection with oil and gas canals in the Sea Deuce area, westward from the intersection with the southeast bank of Chenier Traverse Bayou. The southern ridge would be constructed from the intersection of the Barataria Bay Waterway with the historical Bayou Barataria ridge, north of Dupre Cut, and would then veer southeastward, along the north bank of the historical ridge, crossing the Texaco Canals, and then intersecting with the north bank of Bayou Maurice, to terminate at the west bank of the Barataria Bay Waterway, south of Dupre Cut.	2
CIAP	MG-2	Lafitte Oil and Gas Field (East) Restoration	HR	8	105	Jef.	$2,230,000	This project is to restore natural hydrology by eliminating avenues for saltwater intrusion and sediment loss. The Texaco Canals are a maze of existing oil and gas canals which now breach the natural ridges. After an evaluation of production activities within the field, several canals will be eliminated and plugged 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.	2
CIAP	PR-5	Shoreline Stabilization at North Bank of Bayou Rigolettes near Bayou Barataria	SP	8	105	Jef.	$1,040,000	This project would protect the integrity of the north shoreline of Bayou Rigulettes at its intersection with Bayou Barataria near Lafitte, and would provide protection for the foundation and site of an existing water tank facility that provides potable 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.	2
CIAP	PR-6	Delta Farms Oil and Gas Field Restoration	SP	8	105	Jef.	$1,300,000	This project would plug redundant oilfield access canals to enhance freshwater retention, improve hydrology, and to reduce pathways for saltwater intrusion and extreme tidal exchange.	2

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CIAP	BI-5	Grand Isle Oil and Gas Pipeline Corridor Shoreline Protection - Alternative 1	SP	8	105	Jef.	$2,400,000	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.	2
CIAP	BI-5	Grand Isle Oil and Gas Pipeline Corridor Shoreline Protection - Alternative 2	SP	8	105	Jef.	$1,600,000	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 1.25 miles of rip-rap breakwater segments to extend an existing breakwater alignment eastward. This would indirectly protect the beach by reducing wave energy.	2
CIAP	LAF-3	Leeville Bridge Preliminary Design	INF	8	105	Jef.	$1,750,000	This project would complete the preliminary design for the construction of a replacement for the Leeville Bridge. The preliminary design phase would include survey, geotechnical testing, mitigation, permits, and the preparation of a preliminary design.	2
CARA	PR-11	Bayou Perot/ Rigolettes Peninsula Restoration	MC, SP	8	105	Jef.	$125,000,000	The project would construct approximately 22,000 feet of restored shoreline to reconnect remaining landmasses of the peninsula. Dedicated dredge material would then be placed to fill open water areas, then to restore overall wetland elevations. The sequencing and limits for the filling of target areas would be established during project design to maximize effectiveness.	2
CARA	NA-8	Goose Bayou to Lafitte Levee	HP	8	105	Jef.	N/A	This project would construct flood protection from the Town of Jean Lafitte southward to Goose Bayou. The flood protection system would be constructed east of LA Highway 45 at the wetland/non-wetland interface.	2
CARA	BI-3	Elmer's Island Acquisition and Preservation	LA	8	105	Jef.	$6,000,000	This project recommends the public purchase and preservation of 1,700 acres of Elmer's Island as a publicly accessible primitive area.	2
CARA	CS-4	Wetland Harbor Activities Recreational Facility (WHARF)	LA	8	105	Jef.	$28,000,000	The project involves the development of multi-use facilities to provide individuals of all physical capabilities with onsite recreational opportunities. The development will also afford them access to the adjacent wetlands, nearby State and Federal parks, and the abundant natural and cultural experiences offered by Louisiana's wetlands.	2
CARA	BB-1	North Barataria Bay Shoreline Wave Breaks	SP	8	105	Jef.	$42,600,000	This project would provide basin-wide protection to insure the integrity of the affected wetland shorelines south of Bay Jimmy and Wilkerson Bayou in the eastern portion of the project, north of Barataria Bay in the middle portion of the project, and adjacent to Bayou Cholas, Bayou Defond, and Creole Bay in the western portion of the project. The project would restrict channel dimensions at various locations in order to limit saltwater intrusion, tidal prism, and enhance freshwater retention.	2
State and Local	NA-1	Naomi Siphon Sediment Enrichment	FD	8	105	Jef.	$330,000	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.	2
State and Local	NA-6	Rosethorne Wetlands Sewage Effluent Diversion	WA	8	105	Jef.	$90,000	The proposed project envisions re-routing the Rosethorne wastewater treatment plant effluent from the Intracoastal Canal to an area of adjacent wetlands. The project would consist of upgrading the capacity of the existing sewerage effluent pumping station and installing approximately 1,300 feet of force main. Water control structures and a flow distribution system would also be constructed to channel the flow through the wetlands. The outlet of the discharge line would be placed at the most hydrologically upstream point of the target wetland feasible to ensure that the maximum area of wetlands is benefited and the highest contaminant removal possible is achieved.	2
State and Local	CS-3	Bayou Segnette Wetlands Sewage Effluent Diversion	WA	8	105	Jef.	$350,000	The proposed project envisions re-routing the Westwego wastewater treatment plant effluent from the local drainage canal network to an area of adjacent wetlands. The project would consist of constructing an effluent pumping station and installing approximately 4200 feet of force main. Water control 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 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.	2
State and Local	BI-6	Grand Isle Plan, Part I - NW Grand Isle Breakwater Enhancement	SP	8	105	Jef.	$650,000	This project will modify existing ineffective breakwater segments on the northwest side of Grand Isle to close gaps which prevent sediment accretion.	2
N/A	N/A	Bay Coquette Barrier Island	BI	1	105	Plaq.	Not provided	Barrier island fronting Bay Coquette east of Scofield Island.	2
N/A	N/A	Chaland Headland	BI	1	105	Plaq.	Not provided	Chaland Headland.	2
N/A	N/A	Chenier Ronquille	BI	1	105	Plaq.	Not provided	Cheniere Ronquille.	2
N/A	N/A	E. Grand Terre	BI	1	105	Plaq.	Not provided	East Grande Terre.	2
N/A	N/A	Pass Chaland to Grand Bayou	BI	1	105	Plaq.	Not provided	Pass Chaland to Grande Bayou Pass.	2
N/A	N/A	Pelican Island	BI	1	105	Plaq.	Not provided	Restoration enhancement including elevating dunes and widening islands and planting a mangrove fringe on the backside of the islands across 2.4 miles, approximately 10 feet high and 2000 feet wide.	2
N/A	N/A	Sandy Point Barrier Island	BI	1	105	Plaq.	Not provided	Barrier Island E of Bay Coquette to Sandy Point.	2

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N/A	N/A	Sandy Point	BI	1	105	Plaq.	Not provided	Sandy Point/Bay Coquette.	2
N/A	N/A	Scofield Island	BI	1	105	Plaq.	Not provided	Restoration enhancement including elevating dunes and widening islands and planting a mangrove fringe on the backside of the islands approximately 10 feet high and 2000 feet wide.	2
N/A	N/A	Shell/Lanaux Island	BI	1	105	Plaq.	Not provided	Shell/Lanaux Island.	2
N/A	N/A	Baptiste Collete	DE	1	105	Plaq.	Not provided	Baptiste Collete sub-delta.	2
N/A	N/A	Venice	FD	1	105	Plaq.	Not provided	Venice: Tiger Pass to West Bay.	2
N/A	N/A	Bastian Bay/Buras	FD	1	105	Plaq.	Not provided	Buras/Bastian Bay Diversion.	2
N/A	N/A	Myrtle Grove	FD	1	105	Plaq.	Not provided	Myrtle Grove Diversion.	2
N/A	N/A	Naomi	FD	1	105	Plaq.	Not provided	Naomi Siphon.	2
N/A	N/A	Spanish Pass/Venice Diversion	FD	1	105	Plaq.	Not provided	Spanish Pass Freshwater Diversion.	2
N/A	N/A	West Point a la Hache	FD	1	105	Plaq.	Not provided	West Pointe a la Hache Siphon.	2
N/A	N/A	Empire-Triumph Fringe Marsh	MC	1	105	Plaq.	Not provided	Fringe Marsh Construction.	2
N/A	N/A	Myrtle Grove-Naomi	MC	1	105	Plaq.	Not provided	Myrtle Grove to Naomi Fringe Marsh.	2
N/A	N/A	Port Sulphur-West Pointe a la Hache	MC	1	105	Plaq.	Not provided	Port Sulphur to West Pointe a la Hache Fringe Marsh.	2
N/A	N/A	Venice-Triumph Fringe Marsh	MC	1	105	Plaq.	Not provided	Fringe Marsh Construction.	2
N/A	N/A	West Point a la Hache-Myrtle Grove	MC	1	105	Plaq.	Not provided	West Pointe a la Hache to Myrtle Grove Fringe Marsh.	2
N/A	N/A	Bayou Long/ Bayou Fontanelle	RR	1	105	Plaq.	Not provided	Empire Channel Islands, Bayou Long/Bayou Fontanelle.	2
N/A	N/A	Lake Hermitage	RR	1	105	Plaq.	Not provided	Bayou Grand Cheniere/Lake Hermitage.	2
N/A	N/A	Nairn	RR	1	105	Plaq.	Not provided	Ridge North of Bay de la Cheniere (West of Nairn).	2
N/A	N/A	Bastian Bay	SP	1	105	Plaq.	Not provided	Bastian Bay.	2
N/A	N/A	Bay Coquette	SP	1	105	Plaq.	Not provided	Bay Coquette.	2
N/A	N/A	Bay Joe Wise	SP	1	105	Plaq.	Not provided	Bay Joe Wise.	2
N/A	N/A	Bay Long	SP	1	105	Plaq.	Not provided	Bay Long.	2
N/A	N/A	Bayou Grand Liard/Buras	SP	1	105	Plaq.	Not provided	Bayou Grande Liard/Buras Fringe Marsh.	2
N/A	N/A	Bayou Long	SP	1	105	Plaq.	Not provided	Empire Waterway/ Bayou Long.	2
N/A	N/A	Grand Terre (West)	SP	1	105	Plaq.	Not provided	North of West Grande Terre Island.	2
N/A	N/A	Venice	RR	1	105	Plaq.	Not provided	Ridge West of Venice along banks of Spanish Pass.	2
N/A	N/A	Highway 82/ Schooner Bayou Control Structure	SP	26	47	Ver.	Not provided	Install a barrier along the south bank of Schooner Bayou from LA Hwy 82 to the Schooner Bayou structure. These measures would halt saltwater intrusion 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 hurricanes.	4
N/A	FD 8	South-West Shore Lake Decade	MC	20	51	Ter.	Not provided	Description not provided.	3a
N/A	FD 42	East Island Dune and Marsh Restoration	BI	20	53	Ter.	Not provided	Description not provided.	3a
N/A	FD 6	Marsh Creation to the North of Lost Lake	MC	20	51	Ter.	Not provided	Description not provided.	3a
N/A	FD 7	West Shore Lake Decade	MC	20	51	Ter.	Not provided	Description not provided.	3a
N/A	FD 9	Lake Decade Marsh Creation and Nourishment	MC	20	51	Ter.	$21,000,000	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 intertidal 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.	3a
N/A	FD 10	North Shore Lake Mechant	MC	20	51	Ter.	Not provided	Description not provided.	3a
N/A	FD 28	Marsh Creation East of Lake Boudreaux	MC	20	53	Ter.	Not provided	Description not provided.	3a

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N/A	FD 11	Marsh Creation North Raccourci Bay	MC	20	51	Ter.	Not provided	Description not provided.	3a
N/A	FD 35	Bayou Dularge to Grand Pass Ridge Restoration	RR	20	51	Ter.	Not provided	Description not provided.	3a
N/A	FD 36	Bayou Decade Ridge Restoration from Lake Decade to Raccourci Bay	RR	20	51	Ter.	Not provided	Description not provided.	3a
N/A	FD 12	Marsh Creation Bush Canal	MC	20	53	Ter.	Not provided	Description not provided.	3a
N/A	FD 13	Lake Boudreaux-Lake Quitman Shoreline Protection and Marsh Creation	MC, SP	20	53	Ter.	Not provided	Description not provided.	3a
N/A	FD 15	Marsh Creation North Shore Lake Tambour	MC	20	53	Ter.	Not provided	Description not provided.	3a
N/A	FD 16	Terrebonne Bay Shoreline Protection/Marsh Creation Comprehensive Plan Project	MC, SP	20	51/53	Ter.	Not provided	Description not provided.	3a
N/A	FD 27	Marsh Creation East of Felix Lake	MC	20	53	Ter.	Not provided	Description not provided.	3a
N/A	FD 34	Bayou Terrebonne Ridge Restoration - Below Bush Canal	RR	20	53	Ter.	Not provided	Description not provided.	3a
N/A	FD 87	Lake Mechant South-West Shoreline Protection and Bayou Dularge Ridge Protection	SP, RR	20	51	Ter.	Not provided	Description not provided.	3a
N/A	FD 88	HNC Beneficial Use of Dredge Material (Bay Tambour and Terrebonne Bay)	MC	20	51/53	Ter.	Not provided	Description not provided.	3a
N/A	FD 89	Madison/Terrebonne Bays Marsh Creation	MC	20	53	Ter.	Not provided	Description not provided.	3a
N/A	FD 14	Marsh Creation North Shore Lake Chien	MC	20	53	Ter.	Not provided	Description not provided.	3a
N/A	FD 19	Bay Raccourci Marsh Creation and Terracing Project	MC, SNT	20	51	Ter.	Not provided	Description not provided.	3a
N/A	FD 20	Rebuild the East Bank of the Bayou Terrebonne - Integrity for Freshwater Conveyance	MC	20	53	Ter.	$5,000,000 - $20,000,000	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.	3a
N/A	FD 25	Marsh Creation North Deep Saline	MC	20	53	Ter.	Not provided	Description not provided.	3a
N/A	FD 26	Marsh Creation West of Four Point Bayou	MC	20	51	Ter.	Not provided	Description not provided.	3a
N/A	FD 31	Lost Lake Shoreline Protection and Hydrologic Restoration	SP, HR	20	51	Ter.	$26,000,000	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 nourishment along the northern and western shoreline of Lost Lake, 30 acres terracing to reduce fetch in the northeast of Lost Lake, 300 acres of marsh creation between Lake Paige and Bayou Decade, removal of weirs and installation of more open structures to increase the flow of freshwater and sediment delivery.	3a
N/A	FD 63	Marsh Creation South-West of Four League Bay (Phased Implementation)	MC	20	51	Ter.	$5,000,000 - $20,000,000	Use of material dredged from the Atchafalaya River to create marsh of Point Au Fer Island.	3a
N/A	FD 69	North Lake Boudreaux Basin Freshwater Introduction and Hydrologic Management	FI	20	53	Ter.	Not provided	Description not provided.	3a
N/A	FD 84	Bank Stabilization along Bush Canal and Bayou Terrebonne	SP	20	53	Ter.	Not provided	Description not provided.	3a
N/A	FD 17	DULAC Bayou - Marsh Terracing	SNT	20	51/53	Ter.	Not provided	Description not provided.	3a
N/A	FD 18	South Montegut - Marsh Terracing	SNT	20	53	Ter.	Not provided	Description not provided.	3a

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N/A	FD 37	Sediment Introductions at South Shore Sister Lake	MC	20	53	Ter.	Not provided	Description not provided.	3a
N/A	FD 21	Marsh Creation North Stump Canal	MC	20	51	Ter.	Not provided	Description not provided.	3a
N/A	FD 22	Marsh Creation School Board Property South of Swing Bayou	MC	20	51	Ter.	Not provided	Description not provided.	3a
N/A	FD 23	Marsh Creation North-East of Toilet Bowl Canal	MC	20	51	Ter.	Not provided	Description not provided.	3a
N/A	FD 24	Marsh Creation North East of Bayou Penchant	MC	20	51	Ter.	Not provided	Description not provided.	3a
N/A	FD 70	Brandy Canal Hydrological Restoration Project	HR	20	51	Ter.	Not provided	Description not provided.	3a
N/A	FD 57	Dredge Bayou Terrebonne from Company Canal to Humble Canal	HR	20	53	Ter.	$5,000,000 - $20,000,000	Dredging Bayou Terrebonne will result in an increase in the amount of freshwater available to eastern Terrebonne Parish marshes.	3a
N/A	FD 58	Dredge Minors Canal (GIWW to Lake Decade)	HR	20	51	Ter.	Not provided	Description not provided.	3a
N/A	FD 62	Dredge Company Canal to Convey Freshwater Flow to Terrebonne Marshes	HR	20	53	Ter.	$5,000,000 - $20,000,000	Dredging Company Canal between the GIWW and Bayou Terrebonne will result in an increase in the amount of freshwater available for eastern Terrebonne Parish marsh sustainability.	3a
N/A	FD 59	Connect St. Louis Canal to Petit Caillou	HR	20	53	Ter.	Not provided	Description not provided.	3a
N/A	FD 65	Large Pump Station at Bayou Terrebonne	HP	20	53	Ter.	$500,000	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.	3a
N/A	FD 66	Pump Station at Bayou Petit Caillou for Freshwater Diversion to Ward 7	HP	20	53	Ter.	Not provided	Description not provided.	3a
N/A	FD 79	Bayou Terrebonne Freshwater Diversion Project	FD	20	53	Ter.	$2,000,000 - $5,000,000	Through the use of an existing drainage ditch, removal of an earthen plug between the Montegut and Point aux Chenes drainage systems, construction of 3 small pump stations, and construction of a screw gate water control device near the removed plug location, increased volumes of freshwater can be made available to the marshes of Montegut and Point aux Chenes within the wildlife Management Areas. Over 9,000 acres of brackish and intermediate marsh will be benefitted.	3a
N/A	FD 68	South Lake Decade Freshwater Enhancement and Shoreline Protection	HR, SP	20	51	Ter.	$5,800,000	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 area marshes. 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.	3a
N/A	FD 71	Ashland Freshwater Introduction and Wetland Assimilation Project	WA	20	53	Ter.	$5,000,000	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 deterioration.	3a
N/A	FD 77	Woodlawn Ranch Road	HR	20	53	Ter.	$500,000	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 intrusion and subsidence. This project works in conjunction with Ashland Freshwater Introduction and Wetland Assimilation.	3a
N/A	FD 85	Reconnect Grand Bayou to GIWW	HR	20	53	Ter.	$5,000,000 - $20,000,000	Installation of a water control structure between GIWW and Grand Bayou and dredging of Grand Bayou will be added in order to increase the amount of water available to this region of Terrebonne Parish. Increased sheet flow of freshwater and nutrients will assist in vegetation enhancement and accretion in an area of marsh that is rapidly deteriorating.	3a
N/A	FD 33	Freshwater Introduction via Blue Hammock Bayou	FD	20	51	Ter.	Not provided	Description not provided.	3a
N/A	FD 67	Falgout Canal Freshwater Enhancement (Phase I)	HR	20	51	Ter.	$10,000,000	Saltwater intrusion and hydrologic isolation have led to rapid deterioration of marsh within the marshes located adjacent to Falgout Canal, between Bayou Dularge and the Houma Navigation Canal. This project will allow for re-establishment of Atchafalaya River influence.	3a
N/A	FD 80	Freshwater Diversion using the Bayou Terrebonne Flood Gate	FD	20	53	Ter.	Not provided	Description not provided.	3a
N/A	FD 72	Lower Bayou Dularge Pump Station	HR	20	51	Ter.	$500,000	Pump station D19 will divert approximately 200 cfs of freshwater east of Bayou Dularge into an area of marsh currently experiencing saltwater intrusion and a high rate of subsidence.	3a
N/A	FD 73	Upper Bayou Dularge	HR	20	51	Ter.	$500,000	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 saltwater intrusion.	3a
N/A	FD 74	Mayfield	HR	20	53	Ter.	Not provided	Description not provided.	3a

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N/A	FD 75	Lower Grand Caillou	HR	20	53	Ter.	Not provided	Description not provided.	3a
N/A	FD 76	Upper Grand Caillou	HR	20	51	Ter.	Not provided	Description not provided.	3a
N/A	FD 78	Point-Aux-Chene	HR	20	53	Ter.	Not provided	Description not provided.	3a
N/A	FD 60	Remove Constrictions/Dredge GIWW from Bayou Black to Bayou Wallace	HR	20	51	Ter.	Not provided	Description not provided.	3a
N/A	FD 82	Installation of Flap Gated Culverts Under Highway 57 between Dulac and Highway 56	HR	20	53	Ter.	Not provided	Description not provided.	3a
N/A	FD 3	Plugs Leaks in GIWW (Bankline Protection for GIWW)	HR	20	51	Ter.	Not provided	Description not provided.	3a
N/A	FD 61	Break in Avoca Guide Levee, North of Horse Shoe to Convey Freshwater to Terrebonne Marshes	FD	20	53	Ter.	Not provided	Description not provided.	3a
N/A	FD 32	Chacahoula Basin Plan	HR	20	51	Ter.	Not provided	Description not provided.	3a
N/A	FD 64	Carencro Bayou Freshwater Introduction Project	HR	20	51	Ter.	Not provided	Description not provided.	3a
N/A	FD 43	Wine Island	BI	20	53	Ter.	Not provided	Description not provided.	3a
N/A	FD 44	West Timbalier Island	BI	20	53	Ter.	Not provided	Description not provided.	3a
N/A	FD 50	Beach and Back Barrier Marsh Restoration, East and Trinity Islands	BI	20	53	Ter.	Not provided	Description not provided.	3a
N/A	FD 56	Barrier Shoreline Restoration Point Au Fer Island	BI	20	51	Ter.	Not provided	Description not provided.	3a
N/A	FD 46	Wine Island Rookery	BI	20	53	Ter.	Not provided	Description not provided.	3a
N/A	FD 48	West Raccoon Island Shoal Enhancement and Protection	BI	20	53	Ter.	Not provided	Description not provided.	3a
N/A	FD 38	Rock (Breakwaters) for Whiskey Island	BI	20	53	Ter.	Not provided	Description not provided.	3a
N/A	N/A	Franklin Canal Closure and Levee Improvements	HP	21	50	StM.	$5,775,000	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 US Hwy 90 (an evacuation route) during Hurricanes Rita and Ike. A closure and levee improvements are proposed to prevent backflow through the canal during surge events. The proposed project uses a floating barge to close the canal and includes sheet pile, earthwork embankment, and levee improvements.	3b
N/A	N/A	Morgan City Levee Improvements	HP	21	50	StM.	$16,000,000 - $20,000,000	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 citizens within Consolidated Gravity Drainage District No. 2 (Morgan City and vicinity) passed a bond election in late 2009. Proposed levee and pump station improvements indicate upgrades to existing levees to elevations ranging from 8 feet to 10 feet MSL. The improvements address vulnerability caused by water levels arising from Lake Palourde. The proposed upgrades will provide backwater protection from Atchafalaya riverine events and storm surge from the Gulf as well as from stormwater runoff in the Terrebonne Basin north of the city. Upon completion of this project, backwater protection levees in Morgan City will be suitable for certification by the City and FEMA accreditation.	3b
N/A	N/A	Amelia Flood Protection Improvements - Initial Phase (Partial Miller Plan Alternative 2E)	HP	21	50	StM.	$2,260,350	Amelia flood protection presently consists of a somewhat disparate, non-certifiable levee system which offers minimal backwater protection from Bayou Boeuf and Lake Palourde. Drainage District No. 6 applied for Statewide Flood Control Program funds to increase the height of the levee to a consistent 7 feet MSL. Partial funding was granted. However, this initial phase is but a fraction of the proposed comprehensive levee system needed for the Amelia vicinity as proposed by the drainage district and state and federal authorities.	3b

PROJECT CONCEPTS FROM COASTAL PARISH MASTER PLANS

Program	Local Project Number	Project Name	Project Type	Senate District	House District	Parish	Project Costs	Project Summary	Planning Unit
N/A	N/A	Hanson Canal and Yellow Bayou - Flood Control Structures	HP	21	50	StM.	$6,200,000	Hanson Canal and Yellow Bayou, both similar to the Franklin Canal, were designated to serve as conduits for removal of stormwater following normal rainfall events. However, during hurricanes and related events, both serve as a means for reverse flow generated by storm surge. Hurricanes Rita and Ike are recorded example events. Closures and levee improvements are needed to prevent surge flows from moving inland during surge events.	3b
N/A	N/A	Yokely Levee Improvements	HP	21	50	StM.	$5,000,000	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.	3b
N/A	N/A	Charenton Canal - Flood Control Structure and Levee Improvements - Alternative 1	HP	21	50	StM.	$114,000,000	This alternative is presented as a flood control structure with embankment improvements along both sides of the Charenton Canal. Embankment improvements are needed to prevent overtopping of the canal along its length near urban areas. These improvements will connect to existing levees that are planned from upgrading and proposed federal and/or State funded levees. The timeframe 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 away, dependent upon state and federal funding appropriations. The functional success of this alternative is directly dependent upon completion of proposed federal and state alignments west of the Charenton Canal to and beyond the Cypremort Ridge tying in to highlands of the Teche Ridge near the parish line.	3b
N/A	N/A	Charenton Canal - Flood Control Structure and Levee Improvements - Alternative 2	HP	21	50	StM.	$14,000,000	Alternative 2 proposes the construction of a flood control structure 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.	3b
N/A	N/A	Berwick Levee Improvements - Reach W-124 South	HP	21	50	StM.	$200,000	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.	3B
N/A	N/A	West of Wax Lake Outlet to Charenton Canal - Continued Levee Improvements	HP	21	50	StM.	$117,000,000	Within the area defined by Drainage District No. 1, this project requires the elevation of 43 miles of levee to no less than 18 feet MSL. The current levee heights range from 3.5 feet to 20 feet MSL, and some reaches of the existing levee system have been breached by storm surge.	3b
N/A	N/A	Amelia Area - Continuation of Miller Plan Alternative 2E	HP	21	50	StM.	$50,000,000	Alternative 2E follows the existing levee alignments in the northwestern section of Amelia and then create an internal levee ring to protect most of the residential areas of Amelia. This alternative excludes much of the industrial area along Bayou Boeuf.	3b
N/A	N/A	Berwick Lock Elevation	HP	21	50	StM.	$1,000,000 - $100,000,000	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.	3b
N/A	N/A	WHLO East, Wax Lake East, and W-124 Levee Reach Improvements	HP	21	50	StM.	$22,000,000	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.	3b
N/A	N/A	SMLD Backwater Plan Reconnaissance and Feasibility Analysis	HP	21	50	StM.	$100,000	Reconnaissance Study and possible feasibility analysis	3b
N/A	N/A	Amelia Area - Miller Plan Alternative 3E	HP	21	50	StM.	$171,650,000	This alternative is presented in the Miller Plan, begins in Assumption Parish on the east side of Bayou Boeuf near its intersection with Lake Palourde, continues southward east and inclusive of existing urban areas, crosses the Intracoastal Waterway with a control structure, continues westward in St. Mary Parish south of the Intracoastal Waterway along the higher ground of Avoca Island in a generally northwest direction, and ties into the Avoca Levee near the Bayou Boeuf Locks south of Morgan City.	3b
N/A	N/A	Amelia Area - Louisiana State Master Plan Alignment 1E	HP	21	50	StM.	$400,000,000	The Louisiana State Master Plan Alignment begins east of St. Mary Parish coming westward from Terrebonne Parish to the east bank of Bayou Boeuf, crosses Bayou Boeuf south of the railroad track via a control structure, follows Bayou Boeuf on the Amelia side southward then turns northwest along the bank, proposes a lock in Bayou Boeuf connection to Avoca Island levee near the Bayou Boeuf Locks at Morgan City.	3b
N/A	N/A	Amelia Area - SMLD Backwater Prevention Plan 4E	HP	21	50	StM.		An additional alternative was presented during the planning process (4E) involving the construction of a backwater protection flood control structure in Bayou Chene south of the GIWW with associated new levee alignments. This alternative is in the conceptual stage of planning and requires additional analysis, comparison, and contrast to the other eastern St. Mary and regional backwater protection alternatives. Once reasonable feasibility is established, a detailed evaluation of this alternative may be warranted as a suitable alternative in the state master plan. An initial investigation generally following the guidelines of a USACE reconnaissance study would be in order in an effort to determine the basic feasibility of the alternative. A more detailed feasibility will follow should the project prove feasible with benefits and cost comparable to Alternatives 1E and 3E.	3b

PROJECT CONCEPTS FROM COASTAL PARISH MASTER PLANS

Program	Local Project Number	Project Name	Project Type	Senate District	House District	Parish	Project Costs	Project Summary	Planning Unit
N/A	N/A	Bayou Choupique - Levee Improvements and Flood Control Structure	HP	21	50	StM.	$40,000,000	Bayou Choupique functions as a conduit for storm surge much like the canals noted previously. A flood control structure and associated levee improvements are proposed to ensure adequate flood protection for the west end of the parish.	3b
N/A	N/A	Bayou Sale - Levee Improvements	HP	21	50	StM.	$32,700,000	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.	3b
N/A	N/A	West of Chareton Drainage Canal - Levee Construction - Miller Plan (SMLD Alternative 2W)	HP	21	50	StM.	$66,250,000	This Miller Plan alternative proposes a levee alignment west of the Charenton Canal that generally follows the 5 foot contour extending westward to the Ivanhoe Canal, turns southward along the east side of the Cypremort Ridge, crosses Bayou Cypremort with a minor control structure, then generally follows the 5 foot contour along the west side of the ridge to appropriate connecting elevations of the Teche Ridge.	3b
N/A	N/A	West of Chareton Drainage Canal - Levee Construction - Louisiana State Master Plan (SMLD Alternative 1W)	HP	21	50	StM.	$35,000,000	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.	3b
N/A	N/A	Scott Canal - Flood Control Structure	HP	21	50	StM.	$500,000	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.	3b
N/A	N/A	Kelley Canal - Flood Control Structure	HP	21	50	StM.	$500,000	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.	3b
N/A	N/A	Vacherie Canal - Flood Control Structure	HP	21	50	StM.	$500,000	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.	3b
N/A	N/A	Bayou Tirge Watershed/Flood Protection	HP	26	49	Ver.	Not provided	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.	3b
N/A	N/A	Flood Control Structure at Boston Canal	HP	26	50	Ver.	Not provided	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.	3b
N/A	N/A	Four Mile Canal Structure	HP	26	47	Ver.	Not provided	A reduction in the cross-sectional area of the channel by installing a structure at the terminal end which could be closed during storm events. An opening in the structure would allow the passage of marine vessels and barges. This would be in conjunction with other measures proposed for the GIWW whereby spoil elevation and armoring along the south side of the GIWW is proposed.	3b
N/A	N/A	Hebert Canal Watershed/Storm Protection	HP	26	47	Ver.	$3,000,000	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.	3b
N/A	N/A	Protection Levee on the Marsh/Upland Interface	HP	26	47/50	Ver.	Not provided	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.	3b
N/A	N/A	LA Hwy. 330 Hurricane Protection	HP	26	50	Ver.	Not provided	Armor the south side of the east/west side of LA 330.	3b
N/A	N/A	Flood Control Structure at Oaks Canal	HP	26	50	Ver.	Not provided	Construct a flood control structure at the intersection of Oaks Canal and the GIWW that could be closed in the even of a hurricane or tropical storm that would aid in stemming the rise of flood waters and protect surrounding wetlands.	3b
N/A	N/A	Freshwater Bayou Bank Stabilization	SP	26	47	Ver.	Not provided	Provide protection to the eastern spoil banks along Freshwater Bayou by repairing existing breaches and subsequently armoring the existing spoil bank. This would create a sound boundary which would protect surrounding fragile wetlands and also provide protection from storm surges during a tropical storm or hurricane. Measures also would be undertaken to reduce the cross-sectional area of the intersection where Bayou Chene intersects Vermilion Bay.	3b/4
N/A	N/A	Utilization of Existing Oil Field Canals	HP	26	47/50	Ver.	Not provided	Using existing oilfield canal spoil banks, raise existing elevation so that it would serve as a buffer that would intercept and minimize storm surge impacts and help reduce the amount of water borne floatsam and debris.	3b/4

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

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

Appendix E

Inventory of Non-State Projects

D. Restoration Partnership Projects

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RESTORATION PARTNERSHIP PROJECTS

Fiscal Year	Project Name	Partner	CPRA Award	Partner Match
FY 2008	Black Lake/West Hackberry Terracing	Ducks Unlimited, Inc	$2,000,000	$2,110,000
FY 2010	Westwego WHARF	Trust for Public Land	$1,025,000	$1,250,000
FY 2010	Calcasieu-Sabine Watershed Restoration	Ducks Unlimited, Inc	$1,780,805	$1,195,290
FY 2010	Christian Marsh Terraces	Coalition to Restore Coastal Louisiana	$454,720	$298,000
FY 2010	10,000 Trees for Louisiana	Coalition to Restore Coastal Louisiana	$84,475	$335,790
FY 2010	Terrebonne Vegetative Plantings	Terrebonne Parish	$11,833	$130,000
FY 2010	N. Lake Mechant Landbridge completion	Conoco Phillips	$30,000	$5,000
FY 2012	LaBranche Wetlands Hydrologic Restoration	Coalition to Restore Coastal Louisiana	$350,000	$330,000
FY 2012	Reforesting 50 acres with Superior Bald Cypress	Restore The Earth Foundation	$100,000	$540,000
FY 2012	St. Louis Canal Freshwater Introduction Project	Ducks Unlimited, Inc	$550,000	$800,000
FY 2013	Biloxi Marsh Oyster Reef Restoration Project	The Nature Conservancy	$400,000	$159,300
FY 2013	Establishment of Bald cypress--Water Tupelo Nurseries for Restoration of Forested Wetlands and for Protection of Flood Control Levees in Coastal Louisiana	Comite Resources	$100,000	$50,000
FY 2013	Carencro Bayou Freshwater Introduction	Ducks Unlimited, Inc	$500,000	$560,537
FY 2014	Restoration and Refurbishment of the Grand Chenier Marshes	Miami Corporation and Cameron Gravity Drainage District #5	$75,000	$220,000
FY 2014	Golden Meadow Marsh Creation	Ducks Unlimited, Inc	$480,000	$600,000
FY 2014	Planting Bald cypress for Forested Wetland Restoration at East Tchefuncte Marsh Assimilation Wetland	City of Mandeville	$25,000	$25,000
FY 2014	Coastal Forest and Ridge Restoration Planting Project	Coalition to Restore Coastal Louisiana	$80,000	$296,264
FY 2014	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**

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Appendix F

CPRA FY 2017 Capital Outlay Requests

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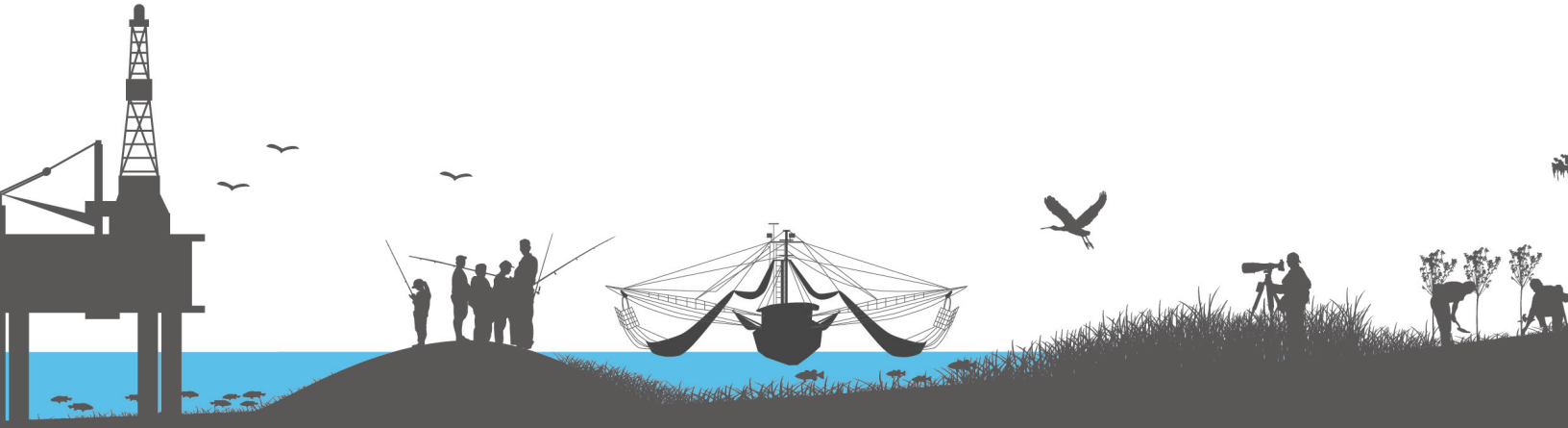
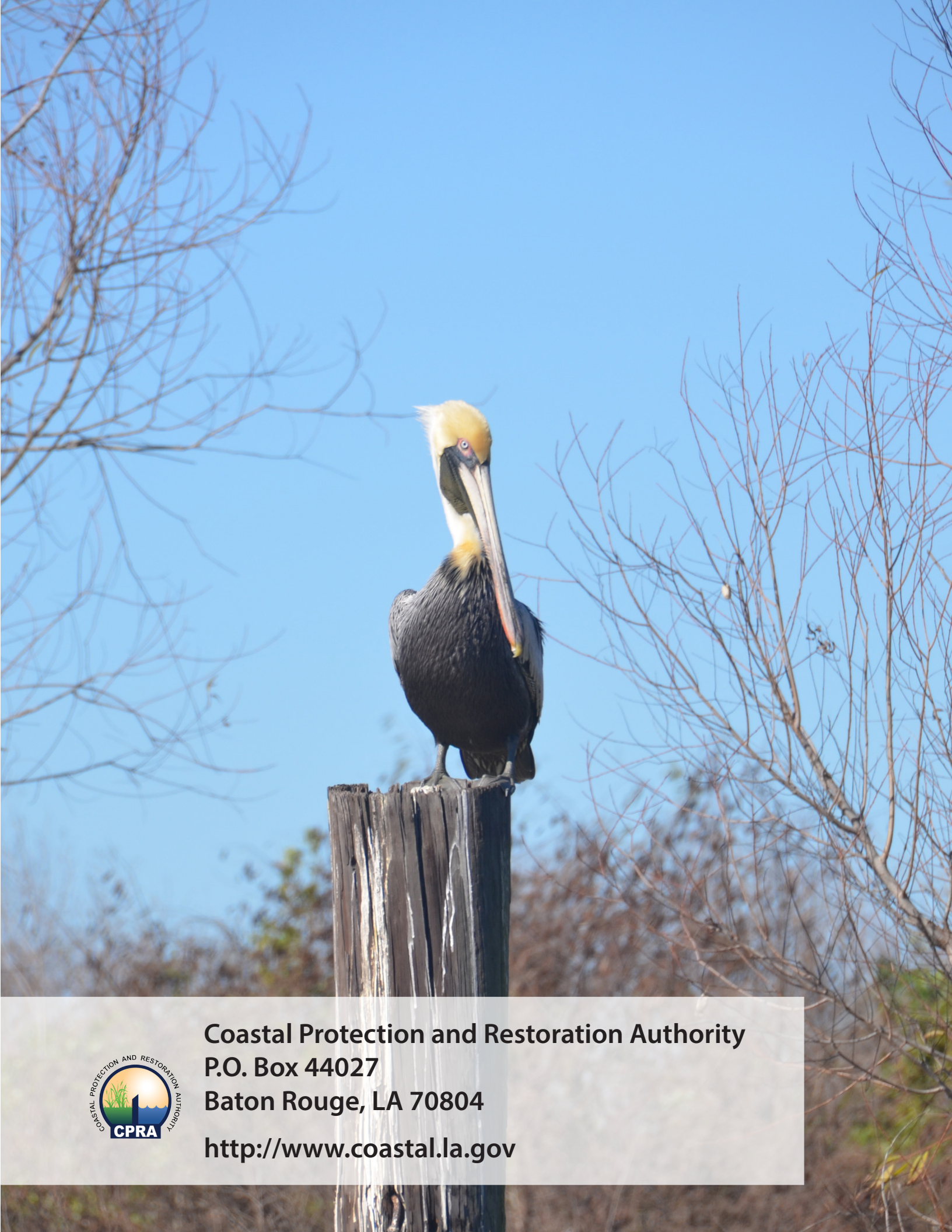
STATE OF LOUISIANA
DIVISION OF ADMINISTRATION
FACILITY PLANNING AND CONTROL
State Agency E-Corts Priority List

Agency Priority	Department Priority	Agency Number	Project Request Title	Funding Source	(Year 1) FY2017	(Year 2) FY2018	(Year 3) FY2019	(Year 4) FY2020	(Year 5) Outlying Years	Total by Project
1 of 13	1 of 13	109	CPRA Projects	IAT	$41,500,000					**$41,500,000**
				FED	$111,159,237					**$111,159,237**
				STAT DED	$117,514,797					**$117,514,797**
2 of 13	2 of 13	109	West Bank and Vicinity , New Orleans, LA Hurricane Protection (BA-66)	GO Bonds	$0	$51,572,799	$51,572,799	$51,572,799	$1,392,465,573	**$1,547,183,970**
3 of 13	3 of 13	109	Lake Pontchartrain, LA & Vicinity Hurricane Protection Project (PO-63)	GO Bonds	$0	$47,851,881	$47,851,881	$47,851,881	$1,292,000,787	**$1,435,556,430**
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	$5,000,000	$10,000,000	$25,000,000	$25,000,000	$186,332,000	**$251,332,000**
6 of 13	6 of 13	109	Lafitte Area Tidal Protection (BA-75)	GO Bonds	$8,000,000	$5,000,000	$3,500,000	$0	$0	**$16,500,000**
7 of 13	7 of 13	109	Western St. Charles Flood Protection	GO Bonds	$5,000,000	$0	$0	$0	$0	**$5,000,000**
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	109	North Shore, Lake Pontchartrain Flood Protection (PO-74)	GO Bonds	$5,000,000	$0	$0	$0	$0	**$5,000,000**
10 of 13	10 of 13	109	St. Mary Backwater Flooding Protection (AT-024)	GO Bonds	$5,000,000	$40,000,000	$40,000,000	$0	$0	**$85,000,000**
11 of 13	11 of 13	109	Delcambre-Avery Canal Storm Surge Protection (TV-57)	GO Bonds	$3,000,000	$15,000,000	$8,000,000	$0	$0	**$26,000,000**
12 of 13	12 of 13	109	Southwest Coastal Louisiana Project (LA-20)	GO Bonds	$1,000,000	$10,000,000	$10,000,000	$10,000,000	$554,550,000	**$585,550,000**
13 of 13	13 of 13	109	South Central Coastal Plan (TV-54)	GO Bonds	$2,000,000	$2,000,000	$0	$0	$0	**$4,000,000**
				TOTALS:	**$362,174,034**	**$216,424,680**	**$237,924,680**	**$189,424,680**	**$3,523,193,360**	**$4,529,141,434**





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