



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

Project Status Summaries

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.

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 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 25 projects in design for FY 2017, including two protection projects and 23 restoration projects. These projects represent a total state investment of \$99 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 43 projects that will begin or continue construction in FY 2017, including 18 protection projects, and 25 restoration projects. These projects represent a total state investment of \$412 million in FY 2017, and 18 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 \$86 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 five 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 16 CWPPRA Phase 1 projects (design) and 10 CWPPRA Phase 2 projects (design and construction).

Examples of active CWPPRA projects include the following:

- Northwest Turtle Bay Marsh Creation (BA-0125) (Phase 1)
- No Name Bayou Marsh Creation and Nourishment (CS-0078) (Phase 1)
- South Lake Lery Marsh Creation (BS-0016) (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 one Performance Evaluation study 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 16 state-only projects, including 11 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 14 active State-only projects, 10 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 October, the Deepwater Horizon Natural Resource Damage Assessment Trustees released for public review and comment a Draft Programmatic Damage Assessment and Restoration Plan and Draft Programmatic Environmental Impact Statement (PDARP/PEIS). If approved, the plan would establish 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 | • Raccoon Island |
| • <i>Lake Borgne Marsh Creation</i> | • Wine Island |
| • Pass-A-Loutre Restoration | • New Harbor Island |
| • <i>Barataria Basin Ridge and Marsh Creation</i> | • <i>Queen Bess Island</i> |
| • <i>Terrebonne Basin Ridge and Marsh Creation</i> | • <i>Cat Island/Mangrove Island</i> |
| • Mid Barataria Sediment Diversion | • Rabbit Island |
| • Freshwater Bayou Shoreline Protection | |

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 CWA civil penalties. The proposed settlement with BP, announced in October, includes \$5.5 billion for Clean Water Act civil penalties (subject to the RESTORE Act). Combined, these settlements would direct a minimum of \$930 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.

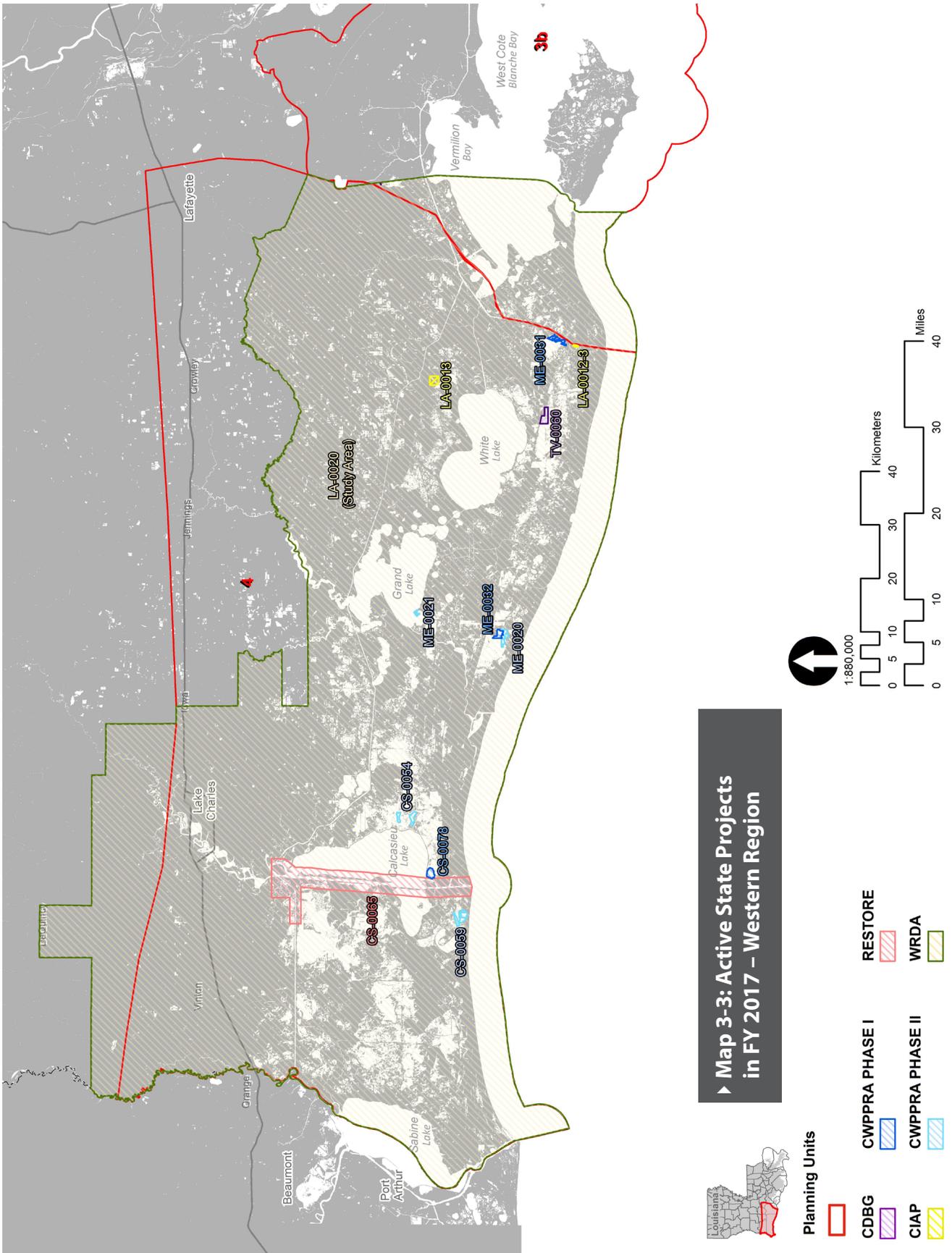
Spill Impact Component

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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► **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	\$3,765,298.20
BA-0048	Bayou Dupont Marsh and Ridge Creation Project	11-Jun-13	1-Aug-16	\$5,343,343.00
BS-0016	South Lake Lery Shoreline and Marsh Restoration	05-Sep-13	31-Aug-16	\$4,470,149.00
CS-0054	Cameron-Creole Watershed Grand Bayou Marsh Creation	29-Feb-16	15-Aug-17	\$3,154,323.00
CS-0059	Oyster Bayou Marsh Creation and Terracing	13-Jan-16	8-Sep-17	\$2,713,913.00
ME-0020	South Grand Chenier Marsh Creation Project	13-Nov-15	24-Apr-17	\$3,039,739.00
ME-0021	Grand Lake Shoreline Protection- Tebo Point	19-Oct-15	5-Aug-16	\$1,350,988.00
PO-0104	Bayou Bonfouca Marsh Creation	28-Dec-15	21-Dec-16	\$3,818,511.00
TE-0032-A	North Lake Boudreaux Basin Freshwater Introduction and Hydrologic Management	18-Oct-16	5-Apr-18	\$2,263,452.80
TE-0072	Lost Lake Marsh Creation and Hydrologic Restoration	23-Feb-16	20-Jul-17	\$4,845,977.00
CIAP Projects				
BA-0043-EB	Mississippi River Long Distance Sediment Pipeline ²	17-Sep-13	1-Aug-16	\$56,495,337.00
BA-0161	Mississippi River Water Reintroduction into Bayou Lafourche - BLFWD	16-Feb-15	30-Jun-17	\$18,350,000.00
PO-0073-2	Central Wetlands - EBSTP to A2	24-Nov-15	16-Nov-16	\$4,218,168.00
PO-0148	Living Shoreline	02-Oct-15	31-Jan-17	\$23,650,000.00
TE-0063	Falgout Canal Freshwater Enhancement	30-Nov-15	1-Nov-16	\$3,300,000.00
State-Only Projects				
BA-0075-1	Jean Lafitte Tidal Protection	19-Feb-14	1-Sep-17	\$15,174,000.00
BA-0075-2	Rosethorne Tidal Protection	04-Mar-16	13-Dec-17	\$16,275,000.00
BA-0085	St. Charles West Bank Hurricane Protection Levee	04-Dec-13	30-Aug-17	\$8,000,000.00
BA-0169	Kramer/Bayou Boeuf Levee Lift	06-Jul-16	5-Jan-18	\$800,000.00
PO-0142	Hydrologic Restoration of the Amite Diversion Canal	04-Dec-15	15-Aug-16	\$2,542,100.00
PO-0170	Violet Canal North Levee Alignment	04-Jan-16	26-Sep-16	\$1,154,000.00
TE-0064	Morganza to the Gulf	30-Nov-05	29-Sep-17	\$121,556,411.00
TE-0116	St. Mary Backwater Flooding	17-May-16	20-Sep-17	\$4,072,836.00
TV-0055	Morgan City/St. Mary Flood Protection	30-Jun-16	6-Sep-17	\$3,370,000.00
TV-0075	Bayou Tigre Flood Control Complex	20-Apr-17	11-Feb-19	\$5,702,000.00
CDBG Projects				
BA-0082	Lafitte Area Levee Repair	22-Aug-16	3-Jul-17	\$600,000.00
TE-0078	Cut-Off/Pointe Aux Chene Levee	04-Jan-16	30-Apr-17	\$7,095,000.00
TV-0060	Front Ridge Chenier Terracing/Protection	01-Feb-16	17-Feb-17	\$1,421,572.00
TV-0067	Bayou Tigre Flood Control Project	04-Apr-16	27-Jul-17	\$5,308,244.00

► **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	29-Aug-17	\$4,304,525,784.00
BA-0067	New Orleans to Venice	29-Oct-11	20-Feb-20	\$1,523,760.00
BA-0109	HSDRRS Mitigation- WBV	27-Feb-15	14-Jun-19	\$126,000,000.00
BA-0154	Previously Authorized Mitigation WBV ⁶	04-Aug-14	31-Oct-18	\$11,000,000.00
BA-0158	New Orleans to Venice Mitigation - Plaquemines Non-Fed	31-Mar-17	23-Jul-19	\$0.00
BA-0159	New Orleans to Venice Mitigation - Fed	31-Mar-17	23-Jul-19	\$0.00
PO-0057	SELA- Overall	18-Feb-09	12-Oct-20	\$1,170,974,586.00
PO-0060	Permanent Canal Closures and Pump Stations	01-Jan-13	7-Dec-18	\$614,800,000.00
PO-0121	HSDRRS Mitigation- LPV	23-Jul-15	29-Dec-17	\$29,750,000.00
PO-0146	Previously Authorized Mitigation LPV- Manchac ⁵	27-May-11	14-Jul-16	\$21,000,000.00
NRDA Early Restoration Projects				
BA-0111	Shell Island West- NRDA	31-Mar-15	1-May-17	\$100,307,860.00
TE-0100	NRDA Caillou Lake Headlands	22-Jul-15	5-Mar-18	\$107,106,000.00
NFWF Projects				
BA-0143	Caminada Headland Beach and Dune Restoration Increment 2	28-May-14	22-Dec-16	\$144,551,441.00

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 PO-63.

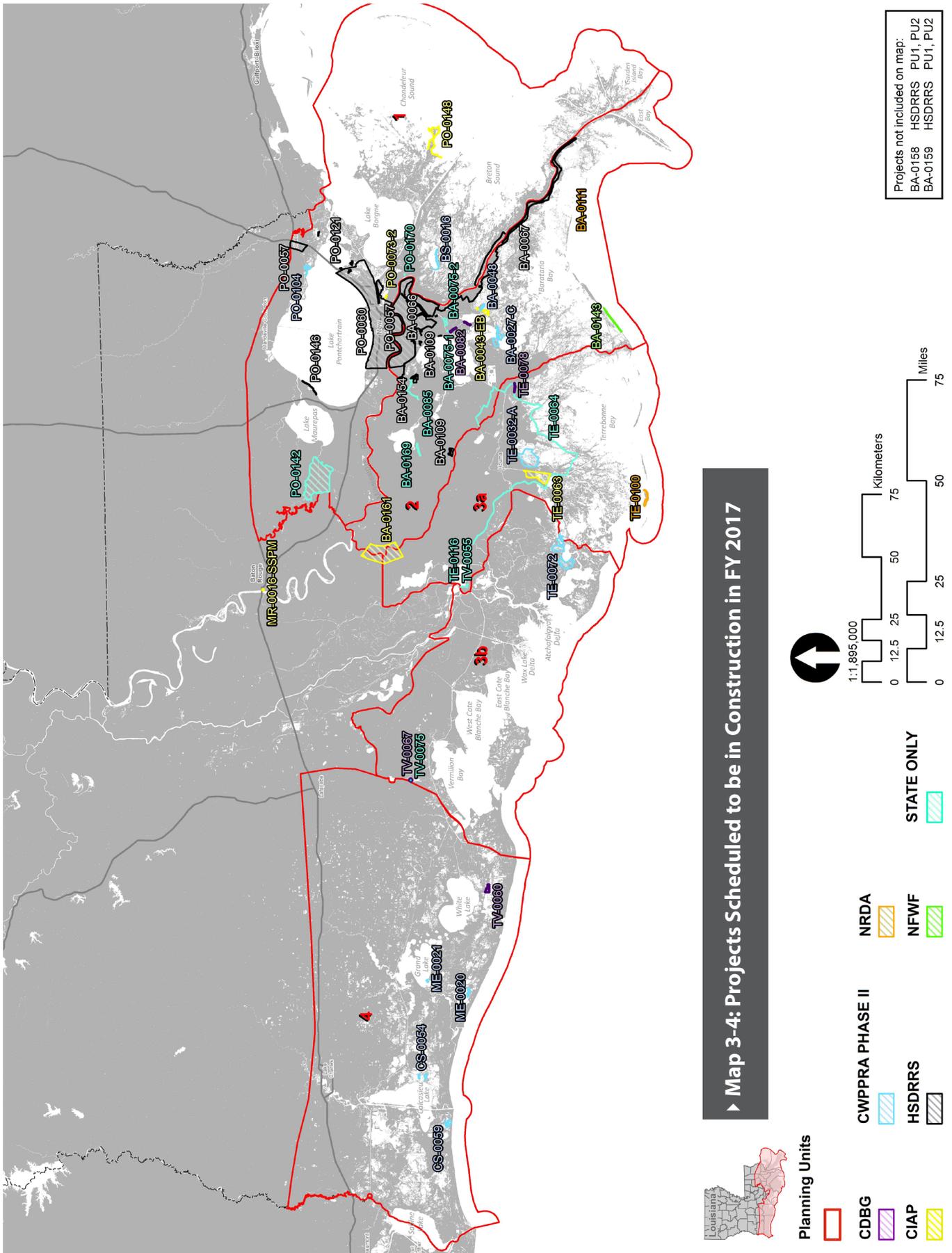


Table 3-2: Projected Three-Year Schedules for Active CWPPRA Projects¹ (FY 2017 - 2019)

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	D	D	D	D	D	W	W	W	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
ME-0031	Freshwater Bayou Marsh Creation (CWPPRA)	1	NRCS	D	D	D	D	D	D	W	W	W	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	NRCS	D	D	D	D	D	D	W	W	W	W	W	W
PO-0169	New Orleans Landbridge Shoreline Stabilization & Marsh Creation	1	USFWS	D	D	D	D	D	D	W	W	W	W	W	W
TE-0066	Central Terrebonne Freshwater Enhancement	1	NRCS	D	D	D	D	D	D	W	W	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	W	W	W	W	W	W	W	W
TE-0117	Island Road Marsh Creation and Nourishment	1	NOAA	D	D	D	D	D	W	W	W	W	W	W	W
TE-0134	West Fourchon Marsh Creation	1	NOAA	D	D	D	D	D	D	W	W	W	W	W	W
BA-0034-2	Hydrologic Restoration and Vegetative Planting in the Lac des Allemands Swamp	2	EPA	W	W	W	W	W	W	W	W	W	W	W	W
BA-0164	Bayou Dupont Sediment Delivery- Marsh Creation 3	1	EPA	W	W	W	W	W	W	W	W	W	W	W	W
CS-0049	Cameron-Creole Freshwater Introduction	1	NRCS	W	W	W	W	W	W	W	W	W	W	W	W
CS-0066	Cameron Meadows Marsh Creation and Terracing	2	NOAA	W	W	W	W	W	W	W	W	W	W	W	W
ME-0018	Rockefeller Refuge Gulf Shoreline Stabilization	1	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
TV-0063	Cole's Bayou Marsh Restoration	1	NOAA	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 ¹	1	NRCS												
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

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-0048	Bayou Dupont Marsh and Ridge Creation Project	C	NOAA	F	O	O	O	O	O	O	O	O	O	O	O
BS-0016	South Lake Lery Shoreline and Marsh Creation	C	USFWS	C	F	O	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 Terracing	1	NOAA	C	C	C	C	F	O	O	O	O	O	O	O
ME-0020	South Grand Chenier Marsh Creation Project	1	USFWS	C	C	C	F	O	O	O	O	O	O	O	O
ME-0021	Grand Lake Shoreline Protection, Tebo Point	1	NRCS	F	O	O	O	O	O	O	O	O	O	O	O
PO-0104	Bayou Bonfouca Marsh Creation	2	USFWS	C	F	O	O	O	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	C	F	O	O	O
TE-0072	Lost Lake Marsh Creation and Hydrologic Restoration	1	USFWS	C	C	C	C	F	O	O	O	O	O	O	O

Legend		P	Feasibility & Planning	B	Both Design & Construction
References	1. Project currently on hold; schedule to be updated when implementation recommences.	D	Engineering & Design	F	Construction Complete
		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	CY 2016		Calendar Yr 2017				Calendar Yr 2018				CY 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 ¹	1	USACE	P	W	W	W	W	W	W	W	W	W	W	W

Legend		P	Feasibility & Planning	B	Both Design & Construction
References	1. Project partially funded by surplus funds. 2. Project currently on hold; schedule to be updated when implementation recommences.	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	1	USFWS	D	D										
BA-0043-EB	Long Distance Mississippi River Sediment Pipeline ²	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-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		P	Feasibility & Planning	B	Both Design & Construction
References	1. Project schedule currently under development.	D	Engineering & Design	F	Construction Complete
	2. Project partially funded by Surplus funds.	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	F											
State Surplus Projects															
BA-0075-1	Jean Lafitte Tidal Protection	C	N/A	C	C	C	C	F							
BA-0075-2	Rosethorne Tidal Protection	1	N/A	B	C	C	C	C	F						
BA-0085	St. Charles West Bank Hurricane Protection Levee	C	N/A	B	C	C	C	F							

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-0169	Kramer/Bayou Boeuf Levee Lift	1	N/A	B	C	C	C	C	C	F					
PO-0167	South Slidell Ring Levee	1	N/A	D	D	D	D								
PO-0170	Violet Canal North Levee Alignment	1		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 - Larose Sheetpile ^{1,2}	1	USACE												
TE-0108	HNC Deepening Section 203 Study	2	USACE	P	P	P	P	P							
TE-0116	St. Mary Backwater Flooding	1	N/A	C	C	C	C	F							
TV-0054	South Central Coastal Plan	-	N/A	P	P	P	P	P	P	P	P	P			
TV-0055	Morgan City/ St Mary Flood Protection	1	N/A	C	C	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
References	1. Project schedule currently under development.	D	Engineering & Design	F	Construction Complete
	2. Project will involve additional improvements within the Larose to Golden Meadow system beyond those completed in FY 2015.	W	Awaiting Additional Funding for Implementation	I	Program Implementation
		C	Construction	O	Operations, Maintenance, & Monitoring

► 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	B	C	C	C	F							
TE-0078	Cut-Off/Pointe Aux Chene Levee	1	HUD	C	C	C	F								
TV-0060	Front Ridge Chenier Terracing/Protection	1	HUD	C	C	F									
TV-0067	Bayou Tigre Flood Control Project	1	HUD	C	C	C	C	F							

Legend		P	Feasibility & Planning	B	Both Design & Construction
References	1. Project partially funded by Surplus funds.	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	C	USACE	C	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	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 ^{2,4}	2	USACE													
BA-0158	New Orleans to Venice Mitigation - Plaquemines Non-Federal ²	2	USACE	D	D	D	C	C	C	C	C	C	C	C	C	C
BA-0159	New Orleans to Venice Mitigation - Federal ²	2	USACE	D	D	D	C	C	C	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	C
PO-0060	Permanent Canal Closures and Pump Stations ²	C	USACE	C	C	C	C	C	C	C	C	C	C	F		
PO-0121	HSDRRS Mitigation- LPV ²	C	USACE	B	B	C	C	C	F							
PO-0146	Previously Authorized Mitigation LPV-Manchac ²	C	USACE	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	W
BA-0148	Risk Reduction- Barataria Basin Land-bridge ⁵	2	USACE													
BS-0003-B	Risk Reduction Via Modification to the Caernarvon Freshwater Diversion ⁵	2	USACE													

Legend		P	Feasibility & Planning	B	Both Design & Construction
References	1. OM&M duties are the responsibility of the local sponsor.	D	Engineering & Design	F	Construction Complete
	2. State expenditures may be covered with Surplus allocation for HSDRRS LERRDS.	W	Awaiting Additional Funding for Implementation	I	Program Implementation
	3. Payments for 30-year payback to commence upon completion of construction activities.	C	Construction	O	Operations, Maintenance, & Monitoring
	4. Current scope of project involves the purchase of property for mitigation purposes; no construction activity is associated with this project at this time.				
	5. 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	C	N/A	C	C	C	F								
TE-0100	NRDA Caillou Lake Headlands	C	N/A	C	C	C	C	C	C	F					
N/A	Salt Water Hatchery	1	N/A	W	W	W	W	W	W	W	W	W	W	W	
N/A	Barataria Marsh Restoration	1	N/A	W	W	W	W	W	W	W	W	W	W	W	
N/A	Queen Bess	1	N/A	W	W	W	W	W	W	W	W	W	W	W	
N/A	Cat Island(s)	1	N/A	W	W	W	W	W	W	W	W	W	W	W	
N/A	Terrebonne Ridges and Marsh	1	N/A	W	W	W	W	W	W	W	W	W	W	W	
N/A	Lake Borgne Marsh	1	N/A	W	W	W	W	W	W	W	W	W	W	W	
NFWF Projects															
BA-0143	Caminada Headland Beach and Dune Restoration Increment 2	C	N/A	C	F										
BA-0153	Mid-Barataria Sediment Diversion	1	N/A	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	
TE-0118	East Timbalier Island Restoration	1	N/A	D	D	D	D	W	W	W	W	W	W	W	
BS-0023	Mid-Breton Sediment Diversion	1	N/A	W	W	W	W	W	W	W	W	W	W	W	
RESTORE Projects (Proposed)															
PO-0029	Mississippi River Reintroduction into Maurepas Swamp	1	N/A	D	D	D	D	D	W	W	W	W	W	W	
TE-0113	Houma Navigation Canal Lock Complex	1	N/A	D	D	D	D	D	D	D	D	D	D	W	
CS-0065	Calcasieu Ship Channel Salinity Control Measures	1	N/A	D	D	D	D	D	D	D	D	D	D	W	
PO-0163	Golden Triangle Marsh Creation	1	N/A	W	W	W	W	W	W	W	W	W	W	W	
N/A	West Grand Terre Beach Nourishment and Stabilization	1	N/A	W	W	W	W	W	W	W	W	W	W	W	
N/A	Biloxi Marsh Living Shoreline	1	N/A	W	W	W	W	W	W	W	W	W	W	W	
N/A	Lower Mississippi River Management	1	N/A	W	W	W	W	W	W	W	W	W	W	W	
N/A	Bayou Chene Hydrologic Structure	1	N/A	W	W	W	W	W	W	W	W	W	W	W	

Legend		P	Feasibility & Planning	B	Both Design & Construction
References	1. Project involves evaluating the feasibility of sediment diversions into the Mid Breton, Lower Breton, and Lower Barataria basins.	D	Engineering & Design	F	Construction Complete
		W	Awaiting Additional Funding for Implementation	I	Program Implementation
		C	Construction	O	Operations, Maintenance, & Monitoring