

28th PRIORITY PROJECT LIST REPORT (APPENDICES)

PREPARED BY:

LOUISIANA COASTAL WETLANDS CONSERVATION AND RESTORATION TASK FORCE

October 2019

Coastal Wetlands Planning, Protection, and Restoration Act 28th Priority Project List Report

Table of Contents

Volume 1	Main Report
Volume 2	Appendices
Appendix A	Summary and Complete Text of the CWPPRA
Appendix B	Wetland Value Assessment Methodology and Community Models
Appendix C	Wetland Value Assessment for Candidate Projects
Appendix D	Economic Analyses for Candidate Projects
Appendix E	Public Support for Candidate Projects
Appendix F	Project Status Summary Report by Lead Agency, Priority List, and Basin

Coastal Wetlands Planning, Protection, and Restoration Act 28th Priority Project List Report Appendix A

Summary and Complete Text of the CWPPRA

SECTION 303. Priority Louisiana Coastal Wetlands Restoration Projects.

- Section 303a. Priority Project List
- NLT 13 Jan 91, Sec. Of Army (Secretary) will convene a Task Force
 - Secretary
 - Administrator, EPA
 - Governor, Louisiana
 - Secretary, Interior
 - Secretary, Agriculture
 - Secretary, Commerce
- NLT 28 Nov. 91, Task Force will prepare and transmit to Congress a Priority List of wetland restoration projects based on cost effectiveness and wetland quality.
- Priority List is revised and submitted annually as part of President's budget.
- Section 303b. Federal and State Project Planning
 - NLT 28 Nov. 93, Task Force will prepare a comprehensive coastal wetlands Restoration Plan for Louisiana.
 - Restoration Plan will consist of a list of wetland projects, ranked by cost effectiveness and wetland quality.
 - Completed Restoration Plan will become Priority List.
 - Secretary will ensure that navigation and flood control projects are consistent with the purpose of the Restoration Plan.
 - Upon submission of the Restoration Plan to Congress, the Task Force will conduct a scientific evaluation of the completed wetland restoration projects every 3 years and report findings to Congress.

SECTION 304. Louisiana Coastal Wetlands Conservation Planning.

- Secretary; Administrator, EPA; and Director, USFWS will:
 - Sign an agreement with the Governor specifying how Louisiana will develop and implement the Conservation Plan.
 - Approve the Conservation Plan.
 - Provide Congress with periodic status reports on Plan implementation.
- NLT 3 years after agreement is signed. Louisiana will develop a Wetland Conservation Plan to achieve no net loss of wetlands resulting from development.

SECTION 305. National Coastal Wetlands Conservation Grants.

- Director, USFWS, will make matching grants to any coastal state to implement Wetland Conservation Projects (projects to acquire, restore, manage, and enhance real property interest in coastal lands and waters).
- Cost sharing is 50% Federal/50% State.

SECTION 306. Distribution of Appropriations.

- 70% of annual appropriations not to exceed (NTE) \$70 million used as follows:
 - NTE \$15 million to fund Task Force completion of Priority List and Restoration Plan—Secretary disburses the funds.

- NTE \$10 million to fund 75% of Louisiana's cost to complete Conservation Plan—Administrator disburses funds.
- Balance to fund wetland restoration projects at 75% Federal/25% Louisiana-Secretary disburses funds.
- 15% of annual appropriations, NTE \$15 million for Wetland Conservation Grants—Director, USFWS disburses funds.
- 15% of annual appropriations, NTE \$15 million for projects authorized by the North American Wetlands Conservation Act—Secretary, Interior disburses funds.

SECTION 307. Additional Authority for the Corps of Engineers.

- <u>Section 307a.</u> Secretary authorized to:
 - Carry out projects to protect, restore, and enhance wetlands and aquatic/coastal ecosystems.
- <u>Section 307b.</u> Secretary authorized and directed to study feasibility of modifying MR&T to increase flows and sediment to the Atchafalaya River for land building wetland nourishment.
 - 25% if the state has dedicated trust fund from which principal is not spent.
 - 15% when Louisiana's Conservation Plan is approved.

TITLE III--WETLANDS

Sec. 301. SHORT TITLE.

This title may be cited as the "Coastal Wetlands Planning, Protection and Restoration Act".

Sec. 302. DEFINITIONS.

As used in this title, the term--

- (1) "Secretary" means the Secretary of the Army;
- (2) "Administrator" means the Administrator of the Environmental Protection Agency;
- (3) "development activities" means any activity, including the discharge of dredged or fill material, which results directly in a more than de minimus change in the hydrologic regime, bottom contour, or the type, distribution or diversity of hydrophytic vegetation, or which impairs the flow, reach, or circulation of surface water within wetlands or other waters;
- (4) "State" means the State of Louisiana;
- (5) "coastal State" means a State of the United States in, or bordering on, the Atlantic, Pacific, or Arctic Ocean, the Gulf of Mexico, Long Island Sound, or one or more of the Great Lakes; for the purposes of this title, the term also includes Puerto Rico, the Virgin Islands, Guam, the Commonwealth of the Northern Mariana Islands, and the Trust Territories of the Pacific Islands, and American Samoa;
- (6) "coastal wetlands restoration project" means any technically feasible activity to create, restore, protect, or enhance coastal wetlands through sediment and freshwater diversion, water management, or other measures that the Task Force finds will significantly contribute to the long-term restoration or protection of the physical, chemical and biological integrity of coastal wetlands in the State of Louisiana, and includes any such activity authorized under this title or under any other provision of law, including, but not limited to, new projects, completion or expansion of existing or on-going projects, individual phases, portions, or components of projects and operation, maintenance and rehabilitation of completed projects; the primary purpose of a "coastal wetlands restoration project" shall not be to provide navigation, irrigation or flood control benefits;
- (7) "coastal wetlands conservation project" means--
- (A) the obtaining of a real property interest in coastal lands or waters, if the obtaining of such interest is subject to terms and conditions that will ensure that the real property will be administered for the long-term conservation of such lands and waters and the hydrology, water quality and fish and wildlife dependent thereon; and
- (B) the restoration, management, or enhancement of coastal wetlands ecosystems if such restoration, management, or enhancement is conducted on coastal lands and waters that are administered for the long-term conservation of such lands and waters and the hydrology, water quality and fish and wildlife dependent thereon;
- (8) "Governor" means the Governor of Louisiana;
- (9) "Task Force" means the Louisiana Coastal Wetlands Conservation and Restoration Task Force which shall consist of the Secretary, who shall serve as chairman, the Administrator, the Governor, the Secretary of the Interior, the Secretary of Agriculture and the Secretary of Commerce; and

(10) "Director" means the Director of the United States Fish and Wildlife Service.

SEC. 303. PRIORITY LOUISIANA COASTAL WETLANDS RESTORATION PROJECTS.

- (a) PRIORITY PROJECT LIST .--
- (1) PREPARATION OF LIST.--Within forty-five days after the date of enactment of this title, the Secretary shall convene the Task Force to initiate a process to identify and prepare a list of coastal wetlands restoration projects in Louisiana to provide for the long-term conservation of such wetlands and dependent fish and wildlife populations in order of priority, based on the cost-effectiveness of such projects in creating, restoring, protecting, or enhancing coastal wetlands, taking into account the quality of such coastal wetlands, with due allowance for small-scale projects necessary to demonstrate the use of new techniques or materials for coastal wetlands restoration.
- (2) TASK FORCE PROCEDURES.--The Secretary shall convene meetings of the Task Force as appropriate to ensure that the list is produced and transmitted annually to the Congress as required by this subsection. If necessary to ensure transmittal of the list on a timely basis, the Task Force shall produce the list by a majority vote of those Task Force members who are present and voting; except that no coastal wetlands restoration project shall be placed on the list without the concurrence of the lead Task Force member that the project is cost effective and sound from an engineering perspective. Those projects which potentially impact navigation or flood control on the lower Mississippi River System shall be constructed consistent with section 304 of this Act.
- (3) TRANSMITTAL OF LIST.--No later than one year after the date of enactment of this title, the Secretary shall transmit to the Congress the list of priority coastal wetlands restoration projects required by paragraph (1) of this subsection. Thereafter, the list shall be updated annually by the Task Force members and transmitted by the Secretary to the Congress as part of the President's annual budget submission. Annual transmittals of the list to the Congress shall include a status report on each project and a statement from the Secretary of the Treasury indicating the amounts available for expenditure to carry out this title.
- (4) LIST OF CONTENTS.--
- (A) AREA IDENTIFICATION; PROJECT DESCRIPTION--The list of priority coastal wetlands restoration projects shall include, but not be limited to--
- (i) identification, by map or other means, of the coastal area to be covered by the coastal wetlands restoration project; and
- (ii) a detailed description of each proposed coastal wetlands restoration project including a justification for including such project on the list, the proposed activities to be carried out pursuant to each coastal wetlands restoration project, the benefits to be realized by such project, the identification of the lead Task Force member to undertake each proposed coastal wetlands restoration project and the responsibilities of each other participating Task Force member, an estimated timetable for the completion of each coastal wetlands restoration project, and the estimated cost of each project.
- (B) PRE-PLAN.--Prior to the date on which the plan required by subsection (b) of this section becomes effective, such list shall include only those coastal wetlands restoration projects that can be substantially completed during a five-year period commencing on the date the project is placed on the list.

- (C) Subsequent to the date on which the plan required by subsection (b) of this section becomes effective, such list shall include only those coastal wetlands restoration projects that have been identified in such plan.
- (5) FUNDING.--The Secretary shall, with the funds made available in accordance with section 306 of this title, allocate funds among the members of the Task Force based on the need for such funds and such other factors as the Task Force deems appropriate to carry out the purposes of this subsection.
- (b) FEDERAL AND STATE PROJECT PLANNING.--
- (1) PLAN PREPARATION.--The Task Force shall prepare a plan to identify coastal wetlands restoration projects, in order of priority, based on the cost-effectiveness of such projects in creating, restoring, protecting, or enhancing the long-term conservation of coastal wetlands, taking into account the quality of such coastal wetlands, with due allowance for small-scale projects necessary to demonstrate the use of new techniques or materials for coastal wetlands restoration. Such restoration plan shall be completed within three years from the date of enactment of this title.
- (2) PURPOSE OF THE PLAN.--The purpose of the restoration plan is to develop a comprehensive approach to restore and prevent the loss of, coastal wetlands in Louisiana. Such plan shall coordinate and integrate coastal wetlands restoration projects in a manner that will ensure the long-term conservation of the coastal wetlands of Louisiana.
- (3) INTEGRATION OF EXISTING PLANS.--In developing the restoration plan, the Task Force shall seek to integrate the "Louisiana Comprehensive Coastal Wetlands Feasibility Study" conducted by the Secretary of the Army and the "Coastal Wetlands Conservation and Restoration Plan" prepared by the State of Louisiana's Wetlands Conservation and Restoration Task Force.
- (4) ELEMENTS OF THE PLAN.--The restoration plan developed pursuant to this subsection shall include--
- (A) identification of the entire area in the State that contains coastal wetlands;
- (B) identification, by map or other means, of coastal areas in Louisiana in need of coastal wetlands restoration projects;
- (C) identification of high priority coastal wetlands restoration projects in Louisiana needed to address the areas identified in subparagraph (B) and that would provide for the long-term conservation of restored wetlands and dependent fish and wildlife populations;
- (D) a listing of such coastal wetlands restoration projects, in order of priority, to be submitted annually, incorporating any project identified previously in lists produced and submitted under subsection (a) of this section;
- (E) a detailed description of each proposed coastal wetlands restoration project, including a justification for including such project on the list;
- (F) the proposed activities to be carried out pursuant to each coastal wetlands restoration project;
- (G) the benefits to be realized by each such project;
- (H) an estimated timetable for completion of each coastal wetlands restoration project;
- (I) an estimate of the cost of each coastal wetlands restoration project;
- (J) identification of a lead Task Force member to undertake each proposed coastal wetlands restoration project listed in the plan;
- (K) consultation with the public and provision for public review during development of the plan; and

- (L) evaluation of the effectiveness of each coastal wetlands restoration project in achieving long-term solutions to arresting coastal wetlands loss in Louisiana.
- (5) PLAN MODIFICATION.--The Task Force may modify the restoration plan from time to time as necessary to carry out the purposes of this section.
- (6) PLAN SUBMISSION.--Upon completion of the restoration plan, the Secretary shall submit the plan to the Congress. The restoration plan shall become effective ninety days after the date of its submission to the Congress.
- (7) PLAN EVALUATION.--Not less than three years after the completion and submission of the restoration plan required by this subsection and at least every three years thereafter, the Task Force shall provide a report to the Congress containing a scientific evaluation of the effectiveness of the coastal wetlands restoration projects carried out under the plan in creating, restoring, protecting and enhancing coastal wetlands in Louisiana.
- (c) COASTAL WETLANDS RESTORATION PROJECT BENEFITS.--Where such a determination is required under applicable law, the net ecological, aesthetic, and cultural benefits, together with the economic benefits, shall be deemed to exceed the costs of any coastal wetlands restoration project within the State which the Task Force finds to contribute significantly to wetlands restoration.
- (d) Consistency.--(1) In implementing, maintaining, modifying, or rehabilitating navigation, flood control or irrigation projects, other than emergency actions, under other authorities, the Secretary, in consultation with the Director and the Administrator, shall ensure that such actions are consistent with the purposes of the restoration plan submitted pursuant to this section.
- (2) At the request of the Governor of the State of Louisiana, the Secretary of Commerce shall approve the plan as an amendment to the State's coastal zone management program approved under section 306 of the Coastal Zone Management Act of 1972 (16 U.S.C. 1455).
- (e) FUNDING OF WETLANDS RESTORATION PROJECTS.--The Secretary shall, with the funds made available in accordance with this title, allocate such funds among the members of the Task Force to carry out coastal wetlands restoration projects in accordance with the priorities set forth in the list transmitted in accordance with this section. The Secretary shall not fund a coastal wetlands restoration project unless that project is subject to such terms and conditions as necessary to ensure that wetlands restored, enhanced or managed through that project will be administered for the long-term conservation of such lands and waters and dependent fish and wildlife populations.
- (f) Cost-Sharing.--
- (1) FEDERAL SHARE.--Amounts made available in accordance with section 306 of this title to carry out coastal wetlands restoration projects under this title shall provide 75 percent of the cost of such projects.
- (2) FEDERAL SHARE UPON CONSERVATION PLAN APPROVAL.--Notwithstanding the previous paragraph, if the State develops a Coastal Wetlands Conservation Plan pursuant to this title, and such conservation plan is approved pursuant to section 304 of this title, amounts made available in accordance with section 306 of this title for any coastal wetlands restoration project under this section shall be 85 percent of the cost of the project. In the event that the Secretary, the Director, and the Administrator jointly determine that the State is not taking reasonable steps to implement and administer a conservation plan developed and approved pursuant to this title, amounts made available in accordance with section 306 of this title for any coastal wetlands restoration project shall revert to 75 percent of the cost of the project: Provided, however, that such reversion to the lower cost share level shall not occur until the Governor, has been provided

notice of, and opportunity for hearing on, any such determination by the Secretary, the Director, and Administrator, and the State has been given ninety days from such notice or hearing to take corrective action.

- (3) FORM OF STATE SHARE.--The share of the cost required of the State shall be from a non-Federal source. Such State share shall consist of a cash contribution of not less than 5 percent of the cost of the project. The balance of such State share may take the form of lands, easements, or right-of-way, or any other form of in-kind contribution determined to be appropriate by the lead Task Force member.
- (4) Paragraphs (1), (2), and (3) of this subsection shall not affect the existing cost-sharing agreements for the following projects: Caernarvon Freshwater Diversion, Davis Pond Freshwater Diversion, and Bonnet Carre Freshwater Diversion.

SEC. 304. LOUISIANA COASTAL WETLANDS CONSERVATION PLANNING.

- (a) DEVELOPMENT OF CONSERVATION PLAN.--
- (1) AGREEMENT.--The Secretary, the Director, and the Administrator are directed to enter into an agreement with the Governor, as set forth in paragraph (2) of this subsection, upon notification of the Governor's willingness to enter into such agreement.
- (2) TERMS OF AGREEMENT.--
- (A) Upon receiving notification pursuant to paragraph (1) of this subsection, the Secretary, the Director, and the Administrator shall promptly enter into an agreement (hereafter in this section referred to as the "agreement") with the State under the terms set forth in subparagraph (B) of this paragraph.
- (B) The agreement shall--
- (i) set forth a process by which the State agrees to develop, in accordance with this section, a coastal wetlands conservation plan (hereafter in this section referred to as the "conservation plan");
- (ii) designate a single agency of the State to develop the conservation plan;
- (iii) assure an opportunity for participation in the development of the conservation plan, during the planning period, by the public and by Federal and State agencies;
- (iv) obligate the State, not later than three years after the date of signing the agreement, unless extended by the parties thereto, to submit the conservation plan to the Secretary, the Director, and the Administrator for their approval; and
- (v) upon approval of the conservation plan, obligate the State to implement the conservation plan.
- (3) GRANTS AND ASSISTANCE.--Upon the date of signing the agreement--
- (A) the Administrator shall, in consultation with the Director, with the funds made available in accordance with section 306 of this title, make grants during the development of the conservation plan to assist the designated State agency in developing such plan. Such grants shall not exceed 75 percent of the cost of developing the plan; and
- (B) the Secretary, the Director, and the Administrator shall provide technical assistance to the State to assist it in the development of the plan.
- (b) CONSERVATION PLAN GOAL.--If a conservation plan is developed pursuant to this section, it shall have a goal of achieving no net loss of wetlands in the coastal areas of Louisiana as a result of development activities initiated subsequent to approval of the plan, exclusive of any wetlands gains achieved through implementation of the preceding section of this title.

- (c) ELEMENTS OF CONSERVATION PLAN.--The conservation plan authorized by this section shall include--
- (1) identification of the entire coastal area in the State that contains coastal wetlands;
- (2) designation of a single State agency with the responsibility for implementing and enforcing the plan;
- (3) identification of measures that the State shall take in addition to existing Federal authority to achieve a goal of no net loss of wetlands as a result of development activities, exclusive of any wetlands gains achieved through implementation of the preceding section of this title;
- (4) a system that the State shall implement to account for gains and losses of coastal wetlands within coastal areas for purposes of evaluating the degree to which the goal of no net loss of wetlands as a result of development activities in such wetlands or other waters has been attained;
- (5) satisfactory assurance that the State will have adequate personnel, funding, and authority to implement the plan;
- (6) a program to be carried out by the State for the purpose of educating the public concerning the necessity to conserve wetlands;
- (7) a program to encourage the use of technology by persons engaged in development activities that will result in negligible impact on wetlands; and
- (8) a program for the review, evaluation, and identification of regulatory and nonregulatory options that will be adopted by the State to encourage and assist private owners of wetlands to continue to maintain those lands as wetlands.
- (d) APPROVAL OF CONSERVATION PLAN.--
- (1) In GENERAL.--If the Governor submits a conservation plan to the Secretary, the Director, and the Administrator for their approval, the Secretary, the Director, and the Administrator shall, within one hundred and eighty days following receipt of such plan, approve or disapprove it.
- (2) APPROVAL CRITERIA.--The Secretary, the Director, and the Administrator shall approve a conservation plan submitted by the Governor, if they determine that -
- (A) the State has adequate authority to fully implement all provisions of such a plan;
- (B) such a plan is adequate to attain the goal of no net loss of coastal wetlands as a result of development activities and complies with the other requirements of this section; and
- (C) the plan was developed in accordance with terms of the agreement set forth in subsection (a) of this section.
- (e) Modification of Conservation Plan.--
- (1) NONCOMPLIANCE.--If the Secretary, the Director, and the Administrator determine that a conservation plan submitted by the Governor does not comply with the requirements of subsection (d) of this section, they shall submit to the Governor a statement explaining why the plan is not in compliance and how the plan should be changed to be in compliance.
- (2) RECONSIDERATION.--If the Governor submits a modified conservation plan to the Secretary, the Director, and the Administrator for their reconsideration, the Secretary, the Director, and Administrator shall have ninety days to determine whether the modifications are sufficient to bring the plan into compliance with requirements of subsection (d) of this section.
- (3) APPROVAL OF MODIFIED PLAN.--If the Secretary, the Director, and the Administrator fail to approve or disapprove the conservation plan, as modified, within the ninety-day period following the date on which it was submitted to them by the Governor, such plan, as modified, shall be deemed to be approved effective upon the expiration of such ninety-day period.

- (f) AMENDMENTS TO CONSERVATION PLAN.--If the Governor amends the conservation plan approved under this section, any such amended plan shall be considered a new plan and shall be subject to the requirements of this section; except that minor changes to such plan shall not be subject to the requirements of this section.
- (g) IMPLEMENTATION OF CONSERVATION PLAN.--A conservation plan approved under this section shall be implemented as provided therein.
- (h) FEDERAL OVERSIGHT.--
- (1) INITIAL REPORT TO CONGRESS.--Within one hundred and eighty days after entering into the agreement required under subsection (a) of this section, the Secretary, the Director, and the Administrator shall report to the Congress as to the status of a conservation plan approved under this section and the progress of the State in carrying out such a plan, including and accounting, as required under subsection (c) of this section, of the gains and losses of coastal wetlands as a result of development activities.
- (2) REPORT TO CONGRESS.--Twenty-four months after the initial one hundred and eighty day period set forth in paragraph (1), and at the end of each twenty-four-month period thereafter, the Secretary, the Director, and the Administrator shall, report to the Congress on the status of the conservation plan and provide an evaluation of the effectiveness of the plan in meeting the goal of this section.

SEC. 305 NATIONAL COASTAL WETLANDS CONSERVATION GRANTS.

- (a) MATCHING GRANTS.--The Director shall, with the funds made available in accordance with the next following section of this title, make matching grants to any coastal State to carry out coastal wetlands conservation projects from funds made available for that purpose.
- (b) PRIORITY.--Subject to the cost-sharing requirements of this section, the Director may grant or otherwise provide any matching moneys to any coastal State which submits a proposal substantial in character and design to carry out a coastal wetlands conservation project. In awarding such matching grants, the Director shall give priority to coastal wetlands conservation projects that are--
- (1) consistent with the National Wetlands Priority Conservation Plan developed under section 301 of the Emergency Wetlands Resources Act (16 U.S.C. 3921); and
- (2) in coastal States that have established dedicated funding for programs to acquire coastal wetlands, natural areas and open spaces. In addition, priority consideration shall be given to coastal wetlands conservation projects in maritime forests on coastal barrier islands.
- (c) CONDITIONS.--The Director may only grant or otherwise provide matching moneys to a coastal State for purposes of carrying out a coastal wetlands conservation project if the grant or provision is subject to terms and conditions that will ensure that any real property interest acquired in whole or in part, or enhanced, managed, or restored with such moneys will be administered for the long-term conservation of such lands and waters and the fish and wildlife dependent thereon.
- (d) Cost-Sharing.--
- (1) FEDERAL SHARE.--Grants to coastal States of matching moneys by the Director for any fiscal year to carry out coastal wetlands conservation projects shall be used for the payment of not to exceed 50 percent of the total costs of such projects: except that such matching moneys may be used for payment of not to exceed 75 percent of the costs of such projects if a coastal State has established a trust fund, from which the principal is not spent, for the purpose of acquiring coastal wetlands, other natural area or open spaces.

- (2) FORM OF STATE SHARE.--The matching moneys required of a coastal State to carry out a coastal wetlands conservation project shall be derived from a non-Federal source.
- (3) IN-KIND CONTRIBUTIONS.--In addition to cash outlays and payments, in-kind contributions of property or personnel services by non-Federal interests for activities under this section may be used for the non-Federal share of the cost of those activities.
- (e) PARTIAL PAYMENTS.--
- (1) The Director may from time to time make matching payments to carry out coastal wetlands conservation projects as such projects progress, but such payments, including previous payments, if any, shall not be more than the Federal pro rata share of any such project in conformity with subsection (d) of this section.
- (2) The Director may enter into agreements to make matching payments on an initial portion of a coastal wetlands conservation project and to agree to make payments on the remaining Federal share of the costs of such project from subsequent moneys if and when they become available. The liability of the United States under such an agreement is contingent upon the continued availability of funds for the purpose of this section.
- (f) WETLANDS ASSESSMENT.--The Director shall, with the funds made available in accordance with the next following section of this title, direct the U.S. Fish and Wildlife Service's National Wetlands Inventory to update and digitize wetlands maps in the State of Texas and to conduct an assessment of the status, condition, and trends of wetlands in that State.

SEC. 306. DISTRIBUTION OF APPROPRIATIONS.

- (a) PRIORITY PROJECT AND CONSERVATION PLANNING EXPENDITURES.--Of the total amount appropriated during a given fiscal year to carry out this title, 70 percent, not to exceed \$70,000,000, shall be available, and shall remain available until expended, for the purposes of making expenditures--
- (1) not to exceed the aggregate amount of \$5,000,000 annually to assist the Task Force in the preparation of the list required under this title and the plan required under this title, including preparation of--
- (A) preliminary assessments;
- (B) general or site-specific inventories;
- (C) reconnaissance, engineering or other studies;
- (D) preliminary design work; and
- (E) such other studies as may be necessary to identify and evaluate the feasibility of coastal wetlands restoration projects;
- (2) to carry out coastal wetlands restoration projects in accordance with the priorities set forth on the list prepared under this title;
- (3) to carry out wetlands restoration projects in accordance with the priorities set forth in the restoration plan prepared under this title;
- (4) to make grants not to exceed \$2,500,000 annually or \$10,000,000 in total, to assist the agency designated by the State in development of the Coastal Wetlands Conservation Plan pursuant to this title.
- (b) COASTAL WETLANDS CONSERVATION GRANTS.--Of the total amount appropriated during a given fiscal year to carry out this title, 15 percent, not to exceed \$15,000,000 shall be available, and shall remain available to the Director, for purposes of making grants--
- (1) to any coastal State, except States eligible to receive funding under section 306(a), to carry out coastal wetlands conservation projects in accordance with section 305 of this title; and

- (2) in the amount of \$2,500,000 in total for an assessment of the status, condition, and trends of wetlands in the State of Texas.
- (c) NORTH AMERICAN WETLANDS CONSERVATION.--Of the total amount appropriated during a given fiscal year to carry out this title, 15 percent, not to exceed \$15,000,000, shall be available to, and shall remain available until expended by, the Secretary of the Interior for allocation to carry out wetlands conservation projects in any coastal State under section 8 of the North American Wetlands Conservation Act (Public Law 101-233, 103 Stat. 1968, December 13, 1989).

SEC. 307. GENERAL PROVISIONS.

- (a) ADDITIONAL AUTHORITY FOR THE CORPS OF ENGINEERS.--The Secretary is authorized to carry out projects for the protection, restoration, or enhancement of aquatic and associated ecosystems, including projects for the protection, restoration, or creation of wetlands and coastal ecosystems. In carrying out such projects, the Secretary shall give such projects equal consideration with projects relating to irrigation, navigation, or flood control.
- (b) STUDY.--The Secretary is hereby authorized and directed to study the feasibility of modifying the operation of existing navigation and flood control projects to allow for an increase in the share of the Mississippi River flows and sediment sent down the Atchafalaya River for purposes of land building and wetlands nourishment.

SEC.308. CONFORMING AMENDMENT.

16 U.S.C. 777c is amended by adding the following after the first sentence: "The Secretary shall distribute 18 per centum of each annual appropriation made in accordance with the provisions of section 777b of this title as provided in the Coastal Wetlands Planning, Protection and Restoration Act: Provided, That, notwithstanding the provisions of section 777b, such sums shall remain available to carry out such Act through fiscal year 1999."

LEGISLATIVE HISTORY – H.R. 5390 (S. 2244):

SENATE REPORTS: No. 101-523 accompanying S. 2244 (Comm. On Environmental and Public Works).

CONGRESSIONAL RECORD, Vol. 136 (1990):

Oct. 1, considered and passed House.

Oct. 26, considered and passed Senate, amended, in lieu of S. 2244.

Oct. 27, House concurred in Senate amendment.

WEEKLY COMPILATION OF PRESIDENTIAL DOCUMENTS, Vol. 26 (1990):

Nov. 29, Presidential statement.

Statement on signing the Bill on Wetland and Coastal Inland Waters Protection and Restoration Programs, November 29, 1990.

Today I am signing H.R. 5390, "An Act to prevent and control infestation of the coastal inland waters of the United States by the zebra mussel and other nonindigenous aquatic species to reauthorize the National Sea Grant College Program, and for other purposes." This Act is designed to minimize, monitor, and control nonindigenous species that

become established in the United States, particularly the zebra mussel; establish wetlands protection and restoration programs in Louisiana and nationally; and promote fish and wildlife conservation in the Great Lakes.

Title III of this Act designates a State official not subject to executive control as a member of the Louisiana Coastal Wetlands Conservation and Restoration Task Force. This official would be the only member of the Task Force whose appointment would not conform to the Appointments Clause of the Constitution.

The Task Force will set priorities for wetland restoration and formulate Federal conservation plans. Certain of its duties, which ultimately determine funding levels for particular restoration projects, are an exercise of significant authority that must be undertaken by an officer of the United States, appointed in accordance with the Appointments Clause, Article II, sec. 2, cl. 2, of the Constitution.

In order to constitutionally enforce this program, I instruct the Task Force to promulgate its priorities list under section 303(a)(2) "by a majority vote of those Task Force members who are present and voting," and to consider the State official to be a nonvoting member of the Task Force for this purpose. Moreover, the Secretary of the Army should construe "lead Task Force member" to include only those members appointed in conformity with the Appointments Clause.

George Bush

The White House, November 29, 1990.

Coastal Wetlands Planning, Protection, and Restoration Act 28th Priority Project List Report Appendix B

Wetland Value Assessment Methodology and Community Models

Appendix B

Wetland Value Assessment Methodology and Community Models

Table of Contents

		<u>Page</u>	
I. EMERGENT MARSH COMMUNITY MODELS			
INTRODUCTION		B-1	
VARIABLE SELECTION			
SUITABILITY INDEX GRAPH DEVELOPMENT			
HABITAT SUITABILITY INDEX FORMULAS			
BENEFIT ASSESSM	В-7		
WETLAND VALUE	ASSESSMENT COMMUNITY MODELS		
	Fresh/Intermediate Marsh Model	В-9	
	Brackish Marsh Model	B-16	
	Saline Marsh Model	B-23	
Attachment B:	Marsh Edge and Interspersion Classes	B-30	
Attachment C:	Procedure for Calculating Access Value	B-37	
II. REFERENCES		B-40	
III. COASTAL CHENIER/R	IDGE COMMUNITY MODEL	B-43	
INTRODUCTION		B-43	
GEOGRAPHIC SCOPEB-44			
MINIMUM AREA OF APPLICATIONB-45			
EVALUATION OF NOMINATED PROJECTSB-45			
FIELD INVESTIGATION C	OF CANDIDATE PROJECTS	B-45	
PROJECT BOUNDARY DE	TERMINATION	B-46	
SELECTION OF TARGET	YEARS	B-46	
USE OF THE COMMUNITY HABITAT MODELS			
	Model Application	B-49	

Baseline Habitat Classification and Land/Water

	Data	B-49	
VARIABLE SELECTION		B-49	
SUITABILITY INDEX GRA	APH DEVELOPMENT	B-51	
HABITAT SUITABILITY II	NDEX FORMULA	B-52	
SUBSIDENCE AND SEA L	EVEL RISE	B-53	
MODEL REVISIONS		B-53	
ADDITIONAL NOTES		B-53	
LITERATURE CITED		B-53	
COASTAL CHENIER/RIDO	SE SUITABILITY GRAPH	B-57	
COASTAL CHENIER/RIDO	SE APPENDIX A		
	Variable V1 – Percent tree canopy cover.	B-60	
	Variable V2 – Percent shrub/midstory co	verB-60	
	Variable V3 – Native woody species dive	ersityB-60	
LITERATURE CITED		B-61	
COASTAL CHENIER/RIDO	GE APPENDIX B		
Document Revisions	B-65		
COASTAL CHENIER/RIDGE APPENDIX C			
	Variable V1 – Percent tree canopy cover	B-66	
	Variable V2 – Percent shrub/midstory co	verB-67	
	Variable V3 – Native woody species dive	ersityB-67	

WETLAND VALUE ASSESSMENT METHODOLOGY

Emergent Marsh Community Models

INTRODUCTION

The emergent marsh models were initially developed after passage of the CWPPRA during 1990 and were first used for evaluating candidate projects in 1991. The following sections describe the process and assumptions used in the initial development of those models. Since their initial development, these models have undergone several revisions including the omission of certain variables, modifications to the Suitability Index graphs, and modifications to the Habitat Suitability Index formulas.

These models were developed to determine the suitability of emergent marsh and open water habitats in the Louisiana coastal zone. These models were designed to function at a community level and therefore attempt to define an optimal combination of habitat conditions for all fish and wildlife species utilizing coastal marsh ecosystems.

VARIABLE SELECTION

Variables for the emergent marsh models were selected through a two-part procedure. The first involved a listing of environmental variables thought to be important in characterizing fish and wildlife habitat in coastal marsh ecosystems. The second part of the selection procedure involved reviewing variables used in species-specific HSI models published by the U.S. Fish and Wildlife Service. Review was limited to HSI models for those fish and wildlife species known to inhabit Louisiana coastal wetlands, and included models for 10 estuarine fish and shellfish, 4 freshwater fish, 12 birds, 3 reptiles and amphibians, and 3 mammals (Table 1). The number of models included from each species group was dictated by model availability.

Selected HSI models were then grouped according to the marsh type(s) used by each species. Because most species for which models were considered are not restricted to one marsh type, most models were included in more than one marsh type group. Within each wetland type group, variables from all models were then grouped according to similarity (e.g., water quality, vegetation, etc.). Each variable was evaluated based on 1) whether it met the variable selection criteria; 2) whether another, more easily measured/predicted variable in the same or a different similarity group functioned as a surrogate; and 3) whether it was deemed suitable for the WVA application (e.g., some freshwater fish model variables dealt with riverine or lacustrine environments). Variables that did not satisfy those conditions were eliminated from further consideration. The remaining variables, still in their similarity groups, were then further eliminated or refined by combining similar variables and/or culling those that were functionally duplicated by variables from other models (i.e., some variables were used frequently in different models in only slightly different format).

Table 1. HSI Models Consulted for Variables for Possible Use in the Emergent Marsh Models

Estuarine Fish and Shellfish pink shrimp white shrimp brown shrimp spotted seatrout Gulf flounder southern flounder Gulf menhaden juvenile spot juvenile Atlantic croaker red drum

Reptiles and Amphibians bullfrog slider turtle American alligator Birds
white-fronted goose
clapper rail
great egret
northern pintail
mottled duck
American coot
marsh wren
snow goose
great blue heron
laughing gull
red-winged blackbird

roseate spoonbill

mink muskrat swamp rabbit Freshwater Fish channel catfish largemouth bass

red ear sunfish

Mammals

bluegill

Variables selected from the HSI models were then compared to those identified in the first part of the selection procedure to arrive at a final list of variables to describe wetland habitat quality. That list includes six variables for each marsh type; 1) percent of the wetland covered by emergent vegetation, 2) percent of the open water covered by aquatic vegetation, 3) marsh edge and interspersion, 4) percent of the open water area ≤ 1.5 feet deep, 5) salinity, 6) aquatic organism access.

SUITABILITY INDEX GRAPH DEVELOPMENT

A variety of resources was utilized to construct each SI graph, including the HSI models from which the final list of variables was partially derived, consultation with other professionals and researchers outside the EnvWG, published and unpublished data and studies, and personal knowledge of EnvWG members. An important "non-biological" constraint on SI graph development was the need to insure that graph relationships were not counter to the purpose of the CWPPRA, that is, the long term creation, restoration, protection, or enhancement of coastal vegetated wetlands. That constraint was most operative in defining SI graphs for Variable V_1 (percent emergent marsh). The process of SI graph development was one of constant evolution, feedback, and refinement; the form of each SI graph was decided upon through consensus among EnvWG members.

The Suitability Index graphs were developed according to the following assumptions.

<u>Variable V₁ - Percent of wetland area covered by emergent vegetation.</u>

Persistent emergent vegetation plays an important role in coastal wetlands by providing foraging, resting, and breeding habitat for a variety of fish and wildlife species; and by providing a source of detritus and energy for lower trophic organisms that form the basis of

the food chain. An area with no emergent vegetation (i.e., shallow open water) is assumed to have minimal habitat suitability in terms of this variable, and is assigned an SI of 0.1.

Optimal vegetative coverage is assumed to occur at 100 percent (SI=1.0). That assumption is dictated primarily by the constraint of not having graph relationships conflict with the CWPPRA's purpose of long term creation, restoration, protection, or enhancement of vegetated wetlands. The EnvWG had originally developed a strictly biologically-based graph defining optimal habitat conditions at marsh cover values between 60 and 80 percent, and sub-optimal habitat conditions outside that range. However, application of that graph, in combination with the time analysis used in the evaluation process (i.e., 20year project life), often reduced project benefits or generated a net loss of habitat quality through time with the project. Those situations arose primarily when: existing (baseline) emergent vegetation cover exceeded the optimum (> 80 percent); the project was predicted to maintain baseline cover values; and without the project the marsh was predicted to degrade, with a concurrent decline in percent emergent vegetation into the optimal range (60-80 percent). The time factor aggravated the situation when the without-project degradation was not rapid enough to reduce marsh cover values significantly below the optimal range, or below the baseline SI, within the 20-year evaluation period. In those cases, the analysis would show net negative benefits for the project, and positive benefits for letting the marsh degrade rather than maintaining the existing marsh. Coupling that situation with the presumption that marsh conditions are not static, and that Louisiana will continue to lose coastal emergent marsh; and taking into account the purpose of the CWPPRA, the EnvWG decided that, all other factors being equal, the models should favor projects that maximize emergent marsh creation, maintenance, and protection. Therefore, the EnvWG agreed to deviate from a strictly biologically-based habitat suitability index graph for V₁ and established optimal habitat conditions at 100 percent marsh cover.

Variable V₂ - Percent of open water area covered by aquatic vegetation. Fresh and intermediate marshes often support diverse communities of floating-leaved and submerged aquatic plants that provide important food and cover to a wide variety of fish and wildlife species. A fresh/intermediate open water area with no aquatics is assumed to have low suitability (SI=0.1). Optimal conditions (SI=1.0) are assumed to occur when 100 percent of the open water is dominated by aquatic vegetation. Habitat suitability may be assumed to decrease with aquatic plant coverage approaching 100 percent due to the potential for mats of aquatic vegetation to hinder fish and wildlife utilization; to adversely affect water quality by reducing photosynthesis by phytoplankton and other plant forms due to shading; and contribute to oxygen depletion spurred by warm-season decay of large quantities of aquatic vegetation. The EnvWG recognized, however, that those effects were highly dependent on the dominant aquatic plant species, their growth forms, and their arrangement in the water column; thus, it is possible to have 100 percent cover of a variety of floating and submerged aquatic plants without the above-mentioned problems due to differences in plant growth form and stratification of plants through the water column. Because predictions of which species may dominate at any time in the future would be tenuous, at best, the EnvWG decided to simplify the graph and define optimal conditions at 100 percent aquatic cover.

Brackish marshes also have the potential to support aquatic plants that serve as important sources of food and cover for several species of fish and wildlife. Although brackish marshes generally do not support the amounts and kinds of aquatic plants that

occur in fresh/intermediate marshes, certain species, such as widgeon-grass, and coontail and milfoil in lower salinity brackish marshes, can occur abundantly under certain conditions. Those species, particularly widgeon-grass, provide important food and cover for many species of fish and wildlife. Therefore, the V_2 Suitability Index graph in the brackish marsh model is identical to that in the fresh/intermediate model.

Some low-salinity saline marshes may contain beds of widgeon-grass and open water areas behind some barrier islands may contain dense stands of seagrasses (e.g., *Halodule wrightii* and *Thalassia testudinum*). However, saline marshes typically do not contain an abundance of aquatic vegetation as often found in fresh/intermediate and brackish marshes. Open water areas in saline marshes typically contain sparse aquatic vegetation and are primarily important as nursery areas for marine organisms. Therefore, in order to reflect the importance of those open water areas to marine organisms, a saline marsh lacking aquatic vegetation is assigned a SI=0.3. It is assumed that optimal coverage of aquatic plants occurs at 100 percent.

<u>Variable V₃ - Marsh edge and interspersion.</u> This variable takes into account the relative juxtaposition of marsh and open water for a given marsh:open water ratio, and is measured by comparing the project area to sample illustrations (Appendix A) depicting different degrees of interspersion. Interspersion is assumed to be especially important when considering the value of an area as foraging and nursery habitat for freshwater and estuarine fish and shellfish; the marsh/open water interface represents an ecotone where prey species often concentrate, and where post-larval and juvenile organisms can find cover. Isolated marsh ponds are often more productive in terms of aquatic vegetation than are larger ponds due to decreased turbidity, and, thus, may provide more suitable waterfowl habitat. However, interspersion can be indicative of marsh degradation, a factor taken into consideration in assigning suitability indices to the various interspersion classes.

A relatively high degree of interspersion in the form of stream courses and tidal channels (Interspersion Class 1) is assumed to be optimal (SI=1.0); streams and channels offer interspersion, yet are not indicative of active marsh deterioration. Areas exhibiting a high degree of marsh cover are also ranked as optimal, even though interspersion may be low, to avoid conflicts with the premises underlying the SI graph for variable V_1 . Without such an allowance, areas of relatively healthy, solid marsh, or projects designed to create marsh, would be penalized with respect to interspersion. Numerous small marsh ponds (Interspersion Class 2) offer a high degree of interspersion, but are also usually indicative of the beginnings of marsh break-up and degradation, and are therefore assigned a more moderate SI of 0.6. Large open water areas (Interspersion Classes 3 and 4) offer lower interspersion values and usually indicate advanced stages of marsh loss, and are thus assigned SI's of 0.4 and 0.2, respectively. The lowest expression of interspersion, Class 5 (i.e., no emergent marsh at all within the project area), is assumed to be least desirable and is assigned an SI=0.1.

<u>Variable V4 - Percent of open water area # 1.5 feet deep in relation to marsh surface.</u> Shallow water areas are assumed to be more biologically productive than deeper water due to a general reduction in sunlight, oxygen, and temperature as water depth increases. Also, shallower water provides greater bottom accessibility for certain species of waterfowl, better foraging habitat for wading birds, and more favorable conditions for aquatic plant growth. Optimal open water conditions in a fresh/intermediate marsh are assumed to occur when 80 to 90 percent of the open water area is less than or equal to 1.5

feet deep. The value of deeper areas in providing drought refugia for fish, alligators and other marsh life is recognized by assigning an SI=0.6 (i.e., sub-optimal) if all of the open water is less than or equal to 1.5 feet deep.

Shallow water areas in brackish marsh habitat are also important. However, brackish marsh generally exhibits deeper open water areas than fresh marsh due to tidal scouring. Therefore, the SI graph is constructed so that lower percentages of shallow water receive higher SI values relative to fresh/intermediate marsh. Optimal open water conditions in a brackish marsh are assumed to occur when 70 to 80 percent of the open water area is less than or equal to 1.5 feet deep.

The SI graph for the saline marsh model is similar to that for brackish marsh, where optimal conditions are assumed to occur when 70 to 80 percent of the open water area is less than or equal to 1.5 feet deep. However, at 100 percent shallow water, the saline graph yields an SI= 0.5 rather than 0.6 as for the brackish model. That change reflects the increased abundance of tidal channels and generally deeper water conditions prevailing in a saline marsh due to increased tidal influences, and the importance of those tidal channels to estuarine organisms.

<u>Variable V₅ - Salinity.</u> It is assumed that periods of high salinity are most detrimental in a fresh/intermediate marsh when they occur during the growing season (defined as March through November, based on dates of first and last frost contained in Natural Resource Conservation Service soil surveys for coastal Louisiana). Therefore, mean high salinity is used as the salinity parameter for the fresh/intermediate marsh model. Mean high salinity is defined as the average of the upper 33 percent of salinity readings taken during a specified period of record. Optimal conditions in fresh marsh are assumed to occur when mean high salinity during the growing season is less than 2 parts per thousand (ppt). Optimal conditions in intermediate marsh are assumed to occur when mean high salinity during the growing season is less than 4 ppt.

For the brackish and saline marsh models, average annual salinity is used as the salinity parameter. The SI graph for brackish marsh is constructed to represent optimal conditions when salinities are between 0 ppt and 10 ppt. The EnvWG acknowledges that average annual salinities below 5 ppt will effectively define a marsh as fresh or intermediate, not brackish. However, the SI graph makes allowances for lower salinities to account for occasions when there is a trend of decreasing salinities through time toward a more intermediate condition. Implicit in keeping the graph at optimum for salinities less than 5 ppt is the assumption that lower salinities are not detrimental to a brackish marsh. However, average annual salinities greater than 10 ppt are assumed to be progressively more harmful to brackish marsh vegetation. Average annual salinities greater than 16 ppt are assumed to be representative of those found in a saline marsh, and thus are not considered in the brackish marsh model.

The SI graph for the saline marsh model is constructed to represent optimal salinity conditions at between 0 ppt and 21 ppt. The EnvWG acknowledges that average annual salinities below 10 ppt will effectively define a marsh as brackish, not saline. However, the suitability index graph makes allowances for lower salinities to account for occasions when there is a trend of decreasing salinities through time toward a more brackish condition. Implicit in keeping the graph at optimum for salinities less than 10 ppt is the assumption that lower salinities are not detrimental to a saline marsh. Average annual salinities greater than 21 ppt are assumed to be slightly stressful to saline marsh vegetation.

Variable V₆ - Aquatic organism access. Access by aquatic organisms, particularly estuarine-dependent fishes and shellfishes, is considered to be a critical component in assessing the quality of a given marsh system. Additionally, a marsh with a relatively high degree of access by default also exhibits a relatively high degree of hydrologic connectivity with adjacent systems, and therefore may be considered to contribute more to nutrient exchange than would a marsh exhibiting a lesser degree of access. The SI for V₆ is determined by calculating an "access value" based on the interaction between the percentage of the project area wetlands considered accessible by aquatic organisms during normal tidal fluctuations, and the type of man-made structures (if any) across identified points of ingress/egress (bayous, canals, etc.). Standardized procedures for calculating the Access Value have been established (Appendix B). It should be noted that access ratings for man-made structures were determined by consensus among EnvWG members and that scientific research has not been conducted to determine the actual access value for each of those structures. Optimal conditions are assumed to exist when all of the study area is accessible and the access points are entirely open and unobstructed.

A fresh marsh with no access is assigned an SI=0.3, reflecting the assumption that, while fresh marshes are important to some species of estuarine-dependent fishes and shellfish, such a marsh lacking access continues to provide benefits to a wide variety of other wildlife and fish species, and is not without habitat value. An intermediate marsh with no access is assigned an SI=0.2, reflecting that intermediate marshes are somewhat more important to estuarine-dependent organisms than fresh marshes. The general rationale and procedure behind the V₆ Suitability Index graph for the brackish marsh model is identical to that established for the fresh/intermediate model. However, brackish marshes are assumed to be more important as habitat for estuarine-dependent fish and shellfish than fresh/intermediate marshes. Therefore, a brackish marsh providing no access is assigned an SI of 0.1. The Suitability Index graph for aquatic organism access in the saline marsh model is the same as that in the brackish marsh model.

HABITAT SUITABILITY INDEX FORMULAS

In developing the HSI formulas, the EnvWG recognized that the primary focus of the CWPPRA is on vegetated wetlands, and that some marsh protection strategies could have adverse impacts to aquatic organism access. Therefore, the EnvWG made an *a priori* decision to emphasize variables V_1 , V_2 , and V_6 by grouping them together, when possible, and weighting them greater than the remaining variables. Weighting was facilitated by treating the grouped variables as a geometric mean. Variables V_3 , V_4 , and V_5 were grouped to isolate their influence relative to V_1 , V_2 , and V_6 .

For all marsh models, V_1 receives the strongest weighting. The relative weights of V_1 , V_2 , and V_6 differ by marsh model to reflect differing levels of importance for those variables between the marsh types. For example, the amount of aquatic vegetation was deemed more important in a fresh/intermediate marsh than in a saline marsh, due to the relative contributions of aquatic vegetation between the two marsh types in terms of providing food and cover. Therefore, V_2 receives more weight in the fresh/intermediate HSI formula than in the saline HSI formula. Similarly, the degree of aquatic organism access was considered more important in a saline marsh than a fresh/intermediate marsh,

and V_6 receives more weight in the saline HSI formula than in the fresh/intermediate formula. As with the Suitability Index graphs, the Habitat Suitability Index formulas were developed by consensus among the EnvWG members.

For several years, 1991 through 1996, the EnvWG utilized one HSI formula specific to each marsh type. However, it was noted that variables V_2 and V_4 , which characterize open water areas only, often resulted in an "artificially inflated" HSI when those variable values were optimal (i.e., SI = 1.0) and open water comprised a very small portion of the project area. For example, Project Area A contains 90 percent emergent marsh and 10 percent open water. Project Area B contains 10 percent emergent marsh and 90 percent open water. Assume the open water in each project area is completely covered by submerged aquatic vegetation and is entirely less than 1.5 feet in depth. Under those conditions, the Suitability Index values for V_2 and V_4 would equal 1.0 for both project areas even though open water only accounts for 10 percent of Project Area A. The EnvWG has commonly referred to this as a "scaling" problem; the Suitability Index values for V_2 and V_4 are not "scaled" in respect to the proportion of the project area they describe. This allows those variables to contribute disproportionately to the HSI in instances when open water constitutes a small portion of the project area.

The EnvWG acknowledged that the scaling problem presented a flaw in the WVA methodology resulting in unrealistic HSI values for certain project areas and eventually resulting in inflated wetland benefits for those projects. During 1996 and 1997, Dr. Gary Shaffer assisted the EnvWG in developing potential solutions to the scaling problem. After several unsuccessful attempts to develop a single HSI formula for each marsh type which scaled the Suitability Index values for V_2 and V_4 based on the ratio of emergent marsh to open water, the EnvWG decided to develop a "split" model for each marsh type. The split model utilizes two HSI formulas for each marsh type; one HSI formula characterizes the emergent habitat within the project area and another HSI formula characterizes the open water habitat. The HSI formula for the emergent habitat contains only those variables important in assessing habitat quality for emergent marsh (i.e., V_1 , V_3 , V_5 , and V_6). Likewise, the open water HSI formula contains only those variables important in characterizing the open water habitat (i.e., V_2 , V_3 , V_4 , V_5 , and V_6). Individual HSI formulas were developed for emergent marsh and open water habitats for each marsh type.

As with the development of a single HSI model for each marsh type, the split models follow the same conventions for weighting and grouping of variables as previously discussed.

BENEFIT ASSESSMENT

As previously discussed, the marsh models are split into emergent marsh and open water components and an HSI is determined for both. Subsequently, net AAHUs are also determined for the emergent marsh and open water habitats within the project area. Net AAHUs for the emergent marsh and open water habitat components must be combined to determine total net benefits for the project.

The primary focus of the CWPPRA is on vegetated wetlands. Therefore, in order to place greater emphasis on wetland benefits to emergent marsh, a weighted average of the net benefits (net AAHUs) for emergent marsh and open water is calculated with the

emergent marsh AAHUs weighted proportionately higher than the open water AAHUs. The weighted formulas to determine net AAHUs for each marsh type are shown below:

Fresh Marsh: 2.1(Emergent Marsh AAHUs) + Open Water AAHUs
3.1

Brackish Marsh: 2.6(Emergent Marsh AAHUs) + Open Water AAHUs
3.6

Saline Marsh: 3.5(Emergent Marsh AAHUs) + Open Water AAHUs
4.5

Vegetation:

Variable V₁ Percent of wetland area covered by emergent vegetation.

Variable V₂ Percent of open water area covered by aquatic vegetation.

Interspersion:

Variable V₃ Marsh edge and interspersion.

Water Depth:

Variable V_4 Percent of open water area $\square \le 1.5$ feet deep, in relation to marsh surface.

Water Quality:

Variable V₅ Mean high salinity during the growing season (March through November).

Aquatic Organism Access:

Variable V₆ Aquatic organism access.

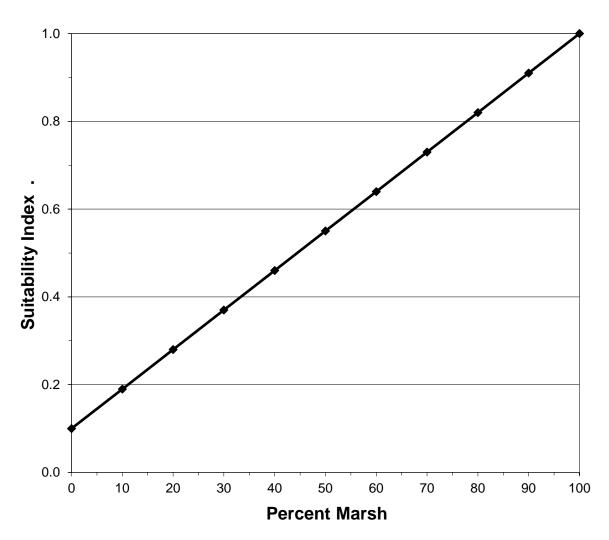
HSI Calculations:

Marsh
$$HSI = \left[\{3.5 \ x \ (SIV_1^5 \ x \ SIV_6)^{(1/6)} \} + (SIV_3 + SIV_5)/2 \right] / 4.5$$

Open Water
$$HSI = \left[\{3.5 \ x \ (SIV_2^3 \ x \ SIV_6)^{(1/4)} \} + (SIV_3 + SIV_4 + SIV_5)/3 \right] / 4.5$$

Variable V_1 Percent of wetland area covered by emergent vegetation.

Suitability Graph

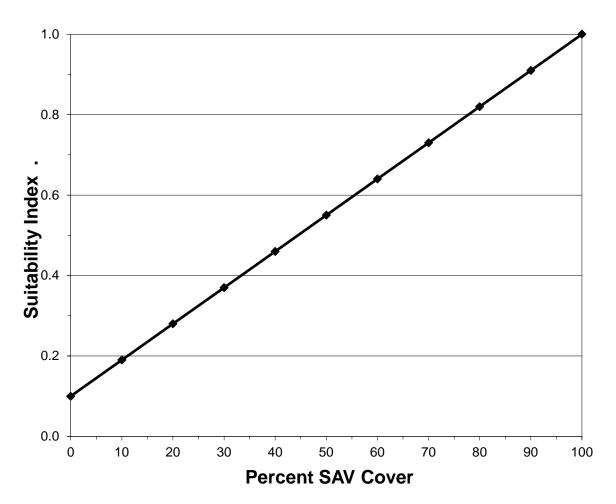


Line Formula

$$SI = (0.009 * \%) + 0.1$$

Variable V₂ Percent of open water area covered by aquatic vegetation.

Suitability Graph

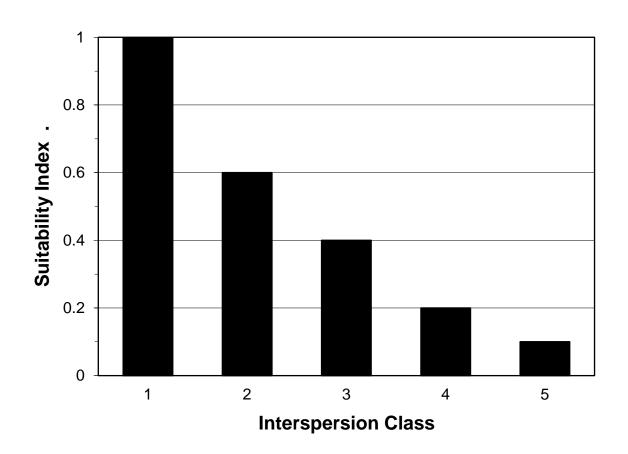


Line Formula

$$SI = (0.009 * \%) + 0.1$$

Variable V₃ Marsh edge and interspersion.

Suitability Graph

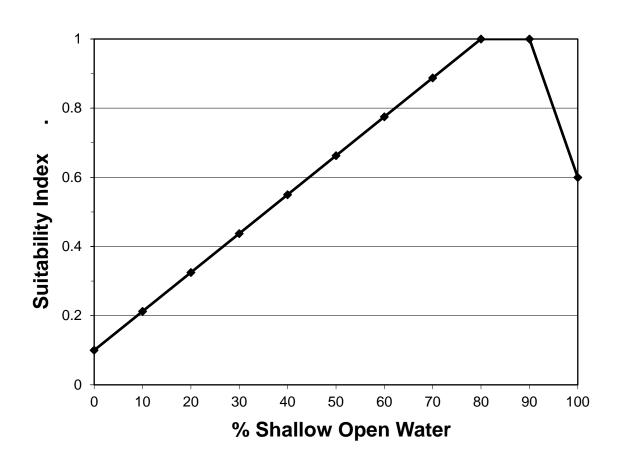


Instructions for Calculating the SI for Variable V₃:

- 1. Refer to Appendix A for examples of the different interspersion classes.
- 2. Estimate percent of project area in each class.

Variable V₄ Percent of open water area ≤ 1.5 feet deep, in relation to marsh surface.

Suitability Graph



Line Formulas

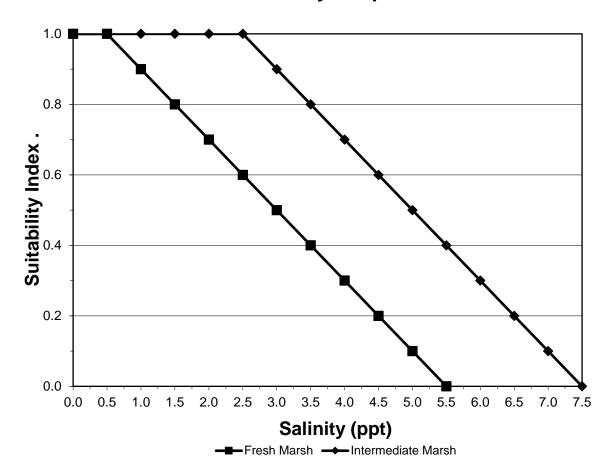
If
$$0 \leq \% < 80$$
, then SI = (0.01125 * %) + 0.1

If
$$80 \le \% \le 90$$
, then $SI = 1.0$

If
$$\% > 90$$
, then $SI = (-0.04 * \%) + 4.6$

Variable V₅ Mean high salinity during the growing season (March through November).

Suitability Graph



Line Formulas

Fresh Marsh:

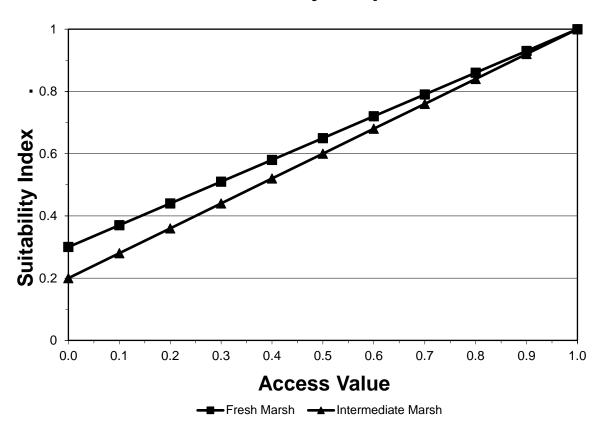
If
$$0 < ppt \le 0.5$$
, then $SI = 1.0$
If $ppt > 0.5$, then $SI = (-0.20 * ppt) + 1.10$

Intermediate Marsh:

If
$$0 < ppt \le 2.5$$
, then $SI = 1.0$
If $ppt > 2.5$, then $SI = (-0.20 * ppt) + 1.50$

Variable V₆ Aquatic organism access.

Suitability Graph



Line Formulas

Fresh Marsh:

$$SI = (0.7 * Access Value) + 0.3$$

Intermediate Marsh:

$$SI = (0.8 * Access Value) + 0.2$$

NOTE: Access Value = P * R, where "P" = percentage of wetland area considered accessible by estuarine organisms during normal tidal fluctuations, and "R" = Structure Rating.

Refer to Appendix B "Procedure For Calculating Access Value" for complete information on calculating the Access Value.

BRACKISH MARSH

Vegetation:

Variable V₁ Percent of wetland area covered by emergent vegetation.

Variable V₂ Percent of open water area covered by aquatic vegetation.

Interspersion:

Variable V₃ Marsh edge and interspersion.

Water Depth:

Variable V_4 Percent of open water area $\leq \square$ 1.5 feet deep, in relation to marsh surface.

Water Quality:

Variable V₅ Average annual salinity.

Aquatic Organism Access

Variable V₆ Aquatic organism access.

HSI Calculations:

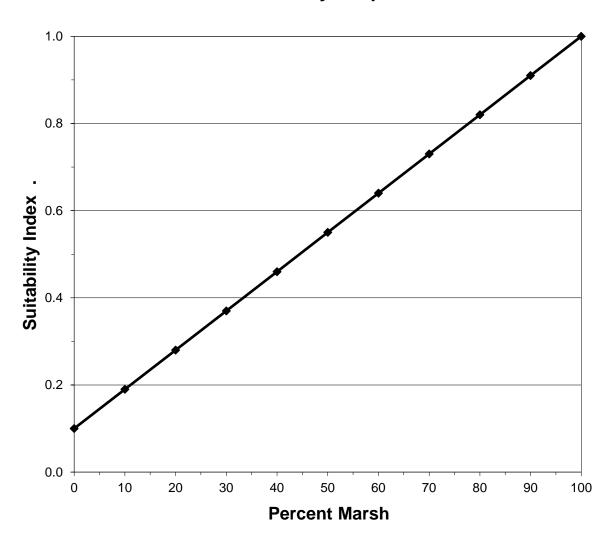
Marsh
$$HSI = \left[\{3.5 \ x \ (SIV_1^5 \ x \ SIV_6^{1.5})^{(1/6.5)} \} + (SIV_3 + SIV_5)/2 \right] / 4.5$$

Open Water
$$HSI = \left[\{3.5 \ x \ (SIV_2^3 \ x \ SIV_6^2)^{(1/5)} \} + (SIV_3 + SIV_4 + SIV_5)/3 \right] / 4.5$$

BRACKISH MARSH

Variable V_1 Percent of wetland area covered by emergent vegetation.

Suitability Graph



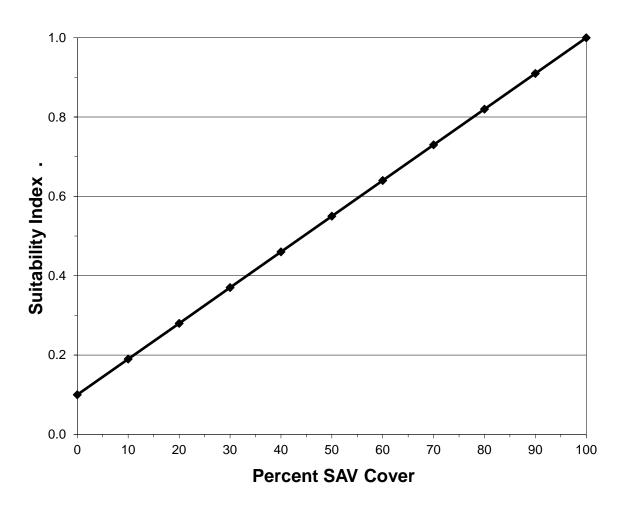
Line Formula

$$SI = (0.009 * \%) + 0.1$$

BRACKISH MARSH

Variable V₂ Percent of open water area covered by aquatic vegetation.

Suitability Graph

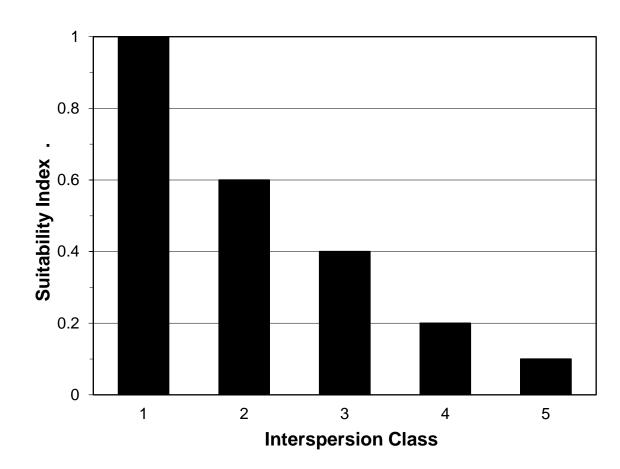


Line Formula

$$SI = (0.009 * \%) + 0.1$$

Variable V₃ Marsh edge and interspersion.

Suitability Graph

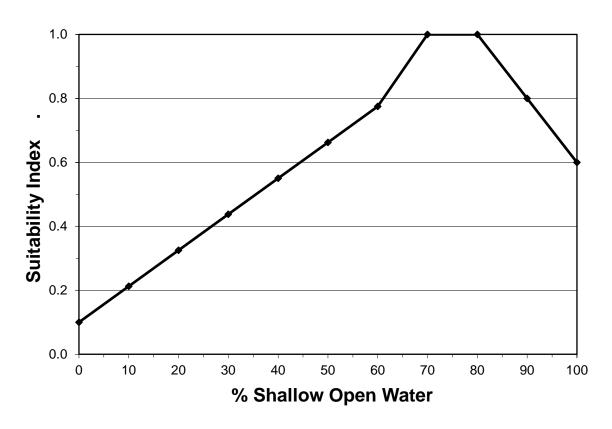


Instructions for Calculating SI for Variable V3:

- 1. Refer to Appendix A for examples of the different interspersion classes.
- 2. Estimate the percent of project area in each class. If the <u>entire</u> project area is solid marsh, assign interspersion Class 1. Conversely, if the <u>entire</u> project area is open water, assign interspersion Class 5.

Variable V4 Percent of open water area $\leq \square$ 1.5 feet deep, in relation to marsh surface.

Suitability Graph



Line Formulas

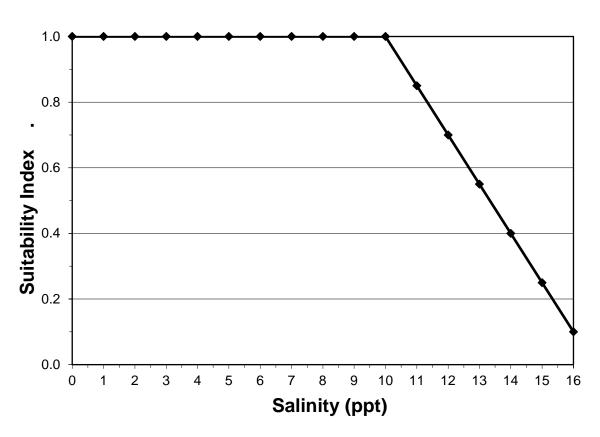
If
$$0 \le \% < 70$$
, then $SI = (0.01286 * \%) + 0.1$

If
$$70 \le \% \le 80$$
, then $SI = 1.0$

If
$$\% > 80$$
, then SI = $(-0.02 * \%) + 2.6$

Variable V₅ Average annual salinity.

Suitability Graph



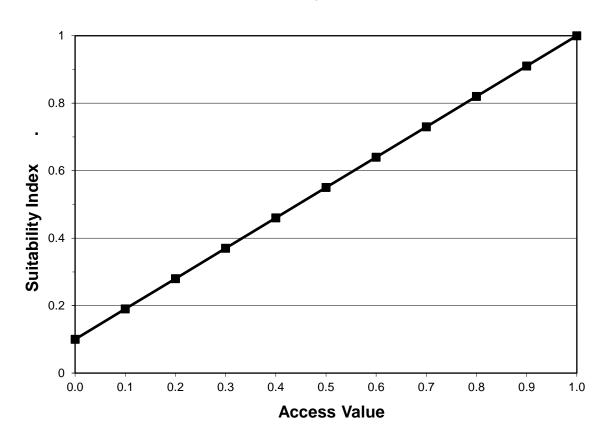
Line Formulas

If
$$0 \le ppt \le 10$$
, then $SI = 1.0$

If ppt > 10, then
$$SI = (-0.15 * ppt) + 2.5$$

Variable V₆ Aquatic organism access.

Suitability Graph



Line Formula

SI = (0.9 * Access Value) + 0.1

<u>Note</u>: Access Value = P * R, where "P" = percentage of wetland area considered accessible by estuarine organisms during normal tidal fluctuations, and "R" = Structure Rating.

Refer to Appendix B "Procedure For Calculating Access Value" for complete information on calculating "P" and "R" values.

Vegetation:

Variable V₁ Percent of wetland area covered by emergent vegetation.

Variable V₂ Percent of open water area covered by aquatic vegetation.

Interspersion:

Variable V₃ Marsh edge and interspersion.

Water Depth:

Variable V_4 Percent of open water area $\square \le 1.5$ feet deep, in relation to marsh surface.

Water Quality:

Variable V₅ Average annual salinity.

Aquatic Organism Access:

Variable V₆ Aquatic organism access.

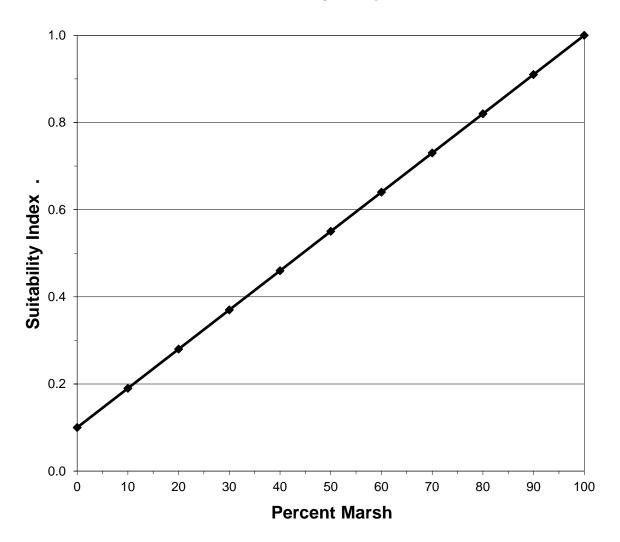
HSI Calculation:

Marsh
$$HSI = \left[\{3.5 \ x \ (SIV_1^3 \ x \ SIV_6)^{(1/4)} \} + (SIV_3 + SIV_5)/2 \right] / 4.5$$

Open Water
$$HSI = \left[\{3.5 \ x \ (SIV_2 \ x \ SIV_6^{2.5})^{(1/3.5)} \} + (SIV_3 + SIV_4 + SIV_5)/3 \right] / 4.5$$

Variable V_1 Percent of wetland area covered by emergent vegetation.

Suitability Graph

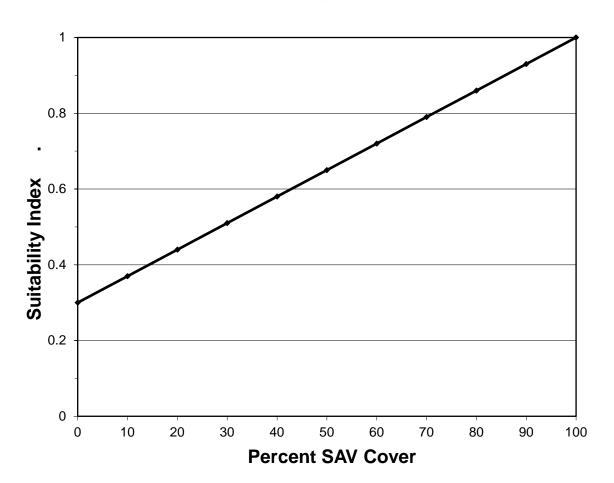


Line Formula

$$SI = (0.009 * \%) + 0.1$$

Variable V₂ Percent of open water area covered by aquatic vegetation.

Suitability Graph

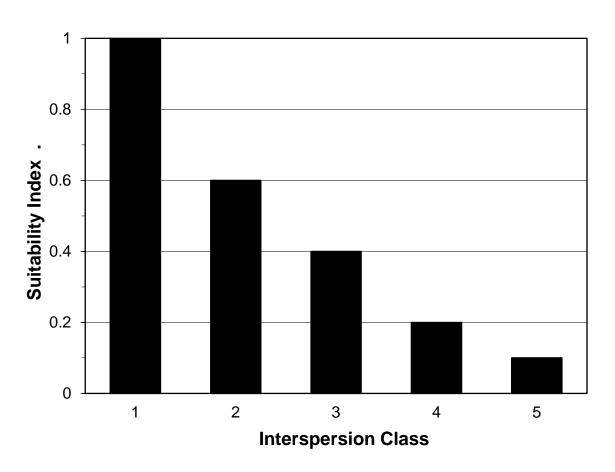


Line Formula

$$SI = (0.007 * \%) + 0.3$$

Variable V₃ Marsh edge and interspersion.

Suitability Graph

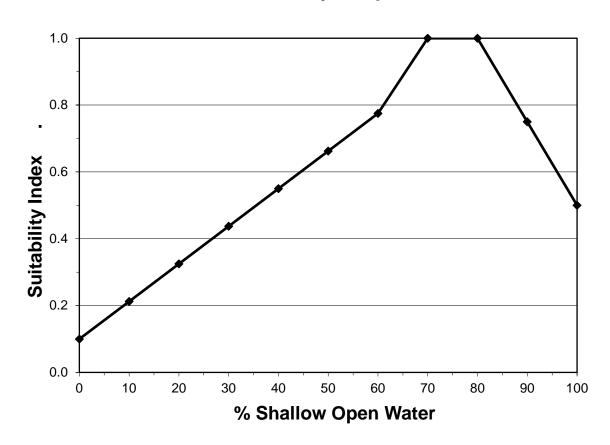


Instructions for Calculating SI for Variable V₃:

- 1. Refer to Appendix A for examples of the different interspersion classes.
- 2. Estimate percent of project area in each class. If the <u>entire</u> project area is solid assign an interspersion Class 1. Conversely, if the <u>entire</u> project area is open water, assign an interspersion Class 5.

Variable V₄ Percent of open water area $\leq \square$ 1.5 feet deep, in relation to marsh surface.

Suitability Graph



Line Formulas

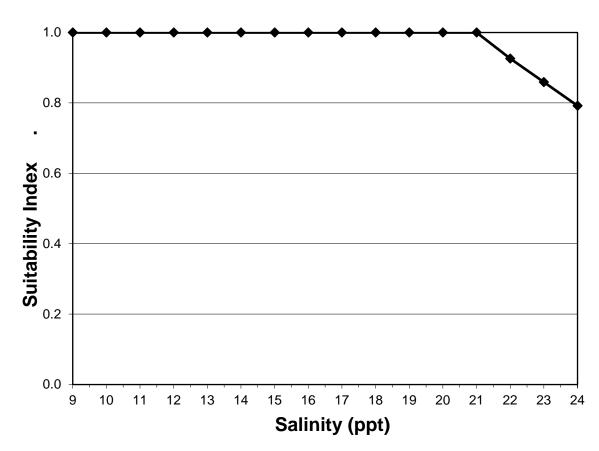
If
$$0 \leq \% < 70$$
, then SI = (0.01286 * %) + 0.1

If
$$70 \le \% \le 80$$
, then $SI = 1.0$

If
$$\% > 80$$
, then SI = $(-0.025 * \%) + 3.0$

Variable V₅ Average annual salinity.

Suitability Graph



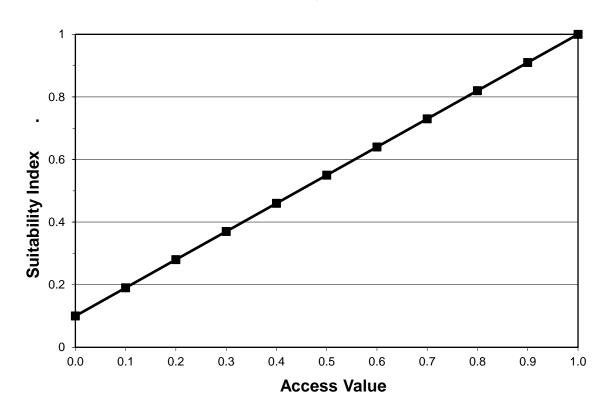
Line Formulas

If
$$9 \le ppt \le 21$$
, then $SI = 1.0$

If ppt
$$> 21$$
, then SI = $(-0.067 * ppt) + 2.4$

Variable V₆ Aquatic organism access.

Suitability Graph



Line Formula

SI = (0.9 * Access Value) + 0.1

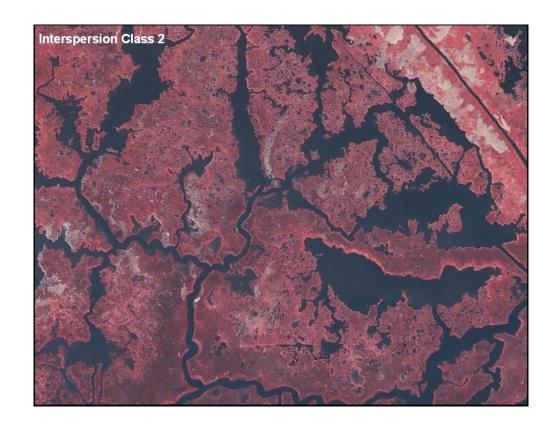
<u>Note</u>: Access Value = P * R, where "P" = percentage of wetland area considered accessible by estuarine organisms during normal tidal fluctuations, and "R" = Structure Rating.

Refer to Appendix B "Procedure For Calculating Access Value" for complete information on calculating the Access Value.

ATTACHMENT B – EXAMPLES OF MARSH EDGE AND INTERSPERSION CLASSES

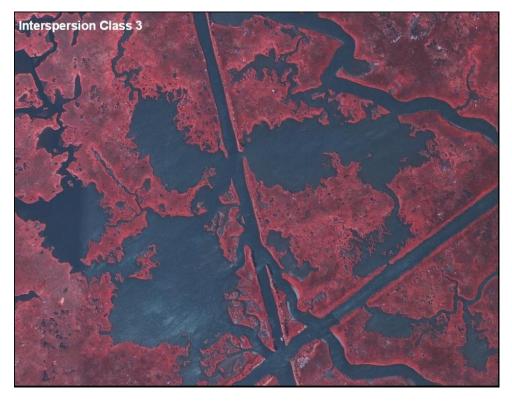


























ATTACHMENT C - PROCEDURE FOR CALCULATING ACCESS VALUE

- 1. Determine the percent (P) of the wetland area accessible by estuarine organisms during normal tidal fluctuations for baseline (TY0) conditions. P may be determined by examination of aerial photography, knowledge of field conditions, or other appropriate methods.
- 2. Determine the Structure Rating (R) for each project structure as follows:

Structure Type	Structure Rating		
Open system	1.0		
Rock weir set at 1ft below marsh level (BML), w/ boat bay	0.8		
Rock weir with boat bay	0.6		
Rock weir set at ≥ 1 ft BML	0.6		
Slotted weir with boat bay	0.6		
Open culverts	0.5		
Weir with boat bay	0.5		
Weir set at ≥ 1 ft BML	0.5		
Slotted weir	0.4		
Flap-gated culvert with slotted weir	0.35		
Variable crest weir	0.3		
Flap-gated variable crest weir	0.25		
Flap-gated culvert	0.2		
Rock weir	0.15		
Fixed crest weir	0.1		
Solid plug	0.0001		

For each structure type, the rating listed above pertains only to the standard structure configuration and assumes that the structure is operated according to common operating schedules consistent with the purpose for which that structure is designed. In the case of a "hybrid" structure or a unique application of one of the above-listed types (including unique or "non-standard" operational schemes), the WVA analyst(s) may assign an appropriate Structure Rating between 0.0001 and 1.0 that most closely approximates the relative degree to which the structure in question would allow ingress/egress of estuarine organisms. In those cases, the rationale used in developing the new Structure Rating shall be documented.

3. Determine the Access Value. Where multiple openings <u>equally</u> affect a common "accessible unit", the Structure Rating (R) of the structure proposed for the "major" access point for the unit will be used to calculate the Access Value. The designation of "major" will be made by the Environmental Work Group. An "accessible unit" is defined as a portion of the <u>total</u> accessible area that is served by one or more access routes (canals, bayous, etc.), yet is isolated in terms of estuarine organism access to or from other units of the project area. Isolation factors include physical barriers that prohibit further movement of estuarine organisms, such as natural levee ridges, and spoil banks; and dense marsh that lacks channels, trenasses, and similar small connections that would, if present, provide access and intertidal refugia for estuarine organisms.

Access Value should be calculated according to the following examples (<u>Note</u>: for all examples, P for TY0 = 90%. That designation is arbitrary and is used only for illustrative purposes; P could be any percentage from 0% to 100%):

a. One opening into area; no structure.

b. One opening into area that provides access to the entire 90% of the project area deemed accessible. A flap-gated culvert with slotted weir is placed across the opening.

c. Two openings into area, <u>each capable by itself</u> of providing full access to the 90% of the project area deemed accessible in TY0. Opening #2 is determined to be the major access route relative to opening #1. A flap-gated culvert with slotted weir is placed across opening #1. Opening #2 is left unaltered.

<u>Note</u>: Structure #1 had no bearing on the Access Value calculation because its presence did not reduce access (opening #2 was determined to be the major access route, and access through that route was not altered).

d. Two openings into area. Opening #1 provides access to an accessible unit comprising 30% of the area. Opening #2 provides access to an accessible unit comprising the remaining 60% of the project area. A flap-gated culvert with slotted weir is placed across #1. Opening #2 is left open.

```
Access Value = weighted avg. of Access Values of the two accessible units = ([P_1*R_1] + [P_2*R_2])/(P_1+P_2) = ([.30*0.35] + [.60*1.0])/(.30+.60) = (.11 + .60)/.90 = .71/.90 = .79
```

<u>Note</u>: $P_1 + P_2 = .90$, because only 90 percent of the study area was determined to be accessible at TY0.

e. Three openings into area, each capable of providing full access to the entire area independent of the others. Opening #3 is determined to be the major access

route relative to openings #1 and #2. Opening #1 is blocked with a solid plug. Opening #2 is fitted with a flap-gated culvert with slotted weir, and opening #3 is left open.

```
Access Value = P
= .90
```

<u>Note</u>: Structures #1 and #2 had no bearing on the Access Value calculation because their presence did not reduce access (opening #3 was determined to be the major access route, and access through that route was not altered).

f. Three openings into area, each capable of providing full access to the entire area independent of the others. Opening #2 is determined to be the major access route relative to openings #1 and #3. Opening #1 is blocked with a solid plug. Opening #2 is fitted with a flap-gated culvert with slotted weir, and opening #3 is fitted with a fixed crest weir.

Access Value =
$$P * R_2$$

= .90 * .35
= .32

Note: Structures #1 and #3 had no bearing on the Access Value calculation because their presence did not reduce access. Opening #2 was determined beforehand to be the major access route; thus, it was the flap-gated culvert with slotted weir across that opening that actually served to limit access.

g. Three openings into area. Opening #1 provides access to an accessible unit comprising 20% of the area. Openings #2 and #3 provide access to an accessible unit comprising the remaining 70% of the area, and within that area, each is capable by itself of providing full access. However, opening #3 is determined to be the major access route relative to opening #2. Opening #1 is fitted with an open culvert, #2 with a flapgated culvert with slotted weir, and #3 with a fixed crest weir.

```
Access Value = ([P_1*R_1] + [P_2*R_3])/(P_1+P_2)
= ([.20*.5] + [.70*.35])/(.20+.70)
= (.10 + .25)/.90
= .35/.90
= .39
```

h. Three openings into area. Opening #1 provides access to an accessible unit comprising 20% of the area. Opening #2 provides access to an accessible unit comprising 40% of the area, and opening #3 provides access to the remaining 30% of the area. Opening #1 is fitted with an open culvert, #2 a flap-gated culvert with slotted weir, and #3 a fixed crest weir.

```
Access Value = ([P_1*R_1]+[P_2*R_2]+[P_3*R_3])/(P_1+P_2+P_3)
= ([.20*.5]+[.40*.35]+[.30*.1])/(.20+.40+.30)
= (.10+.14+.03)/.90
= .27/.90
= .30
```

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Wetland Value Assessment Methodology Coastal Chenier/Ridge Community Model

Introduction

The Wetland Value Assessment (WVA) methodology is a quantitative habitat-based assessment methodology developed for use in determining wetland benefits of project proposals submitted for funding under the Coastal Wetlands Planning, Protection, and Restoration Act (CWPPRA). The WVA quantifies changes in fish and wildlife habitat quality and quantity that are expected to result from a proposed wetland restoration project. The WVA operates under the assumption that optimal conditions for fish and wildlife habitat within a given coastal wetland habitat type can be characterized, and that existing or predicted conditions can be compared to that optimum to provide an index of habitat quality. Habitat quality is estimated or expressed through the use of community models developed specifically for each habitat type. The results of the WVA, measured in Average Annual Habitat Units (AAHUs), can be combined with cost data to provide a measure of the effectiveness of a proposed project in terms of annualized cost per AAHU gained. In addition, the WVA methodology provides an estimate of the number of acres benefited or enhanced by the project and the net acres of habitat protected/restored.

The WVA was developed by the CWPPRA Environmental Work Group (EnvWG) after the passage of CWPPRA in 1990. The EnvWG includes members from each agency represented on the CWPPRA Task Force and members of the Academic Advisory Group (AAG). The WVA is a modification of the Habitat Evaluation Procedures (HEP) developed by the U.S. Fish and Wildlife Service (U.S. Fish and Wildlife Service 1980). HEP has been widely used by the Fish and Wildlife Service (FWS) and other Federal and State agencies in evaluating the impacts of development projects on fish and wildlife resources. A notable difference exists between the two methodologies, however, in that HEP generally uses a species-oriented approach, whereas the WVA utilizes a community approach.

The WVA has been developed for application to several habitat types along the Louisiana coast and community models have been developed for fresh marsh, intermediate marsh, brackish marsh, saline marsh, swamp, barrier islands, and barrier headlands. The coastal chenier/ridge community model, as well as a bottomland hardwoods model, were developed outside of CWPPRA but are utilized by the EnvWG. The WVA models have been developed for determining the suitability of Louisiana coastal wetlands in providing resting, foraging, breeding, and nursery habitat to a diverse assemblage of fish and wildlife species. The models have been designed to function at a community level and therefore attempt to define an optimum combination of habitat conditions for all fish and wildlife species utilizing a given habitat type. Each model consists of 1) a list of variables that are considered important in characterizing fish and wildlife habitat, 2) a Suitability Index (SI) graph for each variable, which defines the assumed relationship between habitat quality

(Suitability Index) and different variable values, and 3) a mathematical formula that combines the Suitability Index for each variable into a single value for habitat quality; that single value is referred to as the Habitat Suitability Index, or HSI. The output of each model (the HSI) is assumed to have a linear relationship with the suitability of a coastal wetland system in providing fish and wildlife habitat.

Note: This document has been primarily developed to guide the application of the coastal chenier/ridge community model for CWPPRA. However, the guidance it provides may be used by other restoration programs (e.g., Louisiana Coastal Area, U.S. Army Corps of Engineers Civil Works) recognizing the distinction between projects that result in net habitat gain (i.e., restoration), net loss (i.e., development), or no net loss (i.e., mitigation). Furthermore, for development and mitigation projects, it should be recognized that the role and jurisdiction of specific groups may vary from program to program. In addition, these models may be used to calculate the number of average annual habitat units lost to determine the potential impacts and adequately compensate (i.e., mitigation) for those impacts.

Geographic Scope

The coastal chenier/ridge community model bases its habitat assessment scheme on variables that are quite broadly applicable to migrant habitats outside of Louisiana, especially in the eastern USA and southern Canada where the basic plant community is relatively homogeneous (deciduous forest). Habitat characteristics dealing with forest structure and floristic diversity are relevant defining features of stopover site quality throughout this region.

The scientific literature used to justify the model parameters and coefficients comes primarily from the eastern USA and extreme southeastern Canada (Great Lakes shoreline; Dunn 2001), supplemented by some studies from the western USA and two from outside North America (Europe and Israel; Chernetsov and Manukyan 2000, Sapir et al. 2004). The latter studies were included because they provided insights that appeared transferable given the similarities of the Neartic-Neotropical and Palearctic-Ethiopian migratory systems. Although the list of regular migrants might change by a few species if one moves from the Louisiana coast to South Dakota or New England, there are relatively few such examples. This is because almost all species that migrate from eastern North America pass through the western Gulf en route to the tropics- the few exceptions being songbirds that winter in the Caribbean or South America and pass east of the area. However, the inclusion of these species in some of the studies in other parts of the eastern USA is probably not problematic, as they show the same broad foraging and habitat use characteristics as the species that pass through Louisiana.

The coastal chenier/ridge community WVA model utilizes a set of variables considered important in determining the suitability of non-grazed barrier headland ridges, cheniers, and spoil areas in Louisiana that are, or are proposed to be, vegetated in primarily non-obligate wetland plant species, to provide the habitat necessary to support transient migratory landbirds in the spring and fall. The area of the state to which this model is

applicable includes the portions of Cameron, Vermilion, Iberia, St. Mary, Terrebonne, Lafourche, Jefferson, Plaquemines and St. Bernard Parishes south of the Gulf Intracoastal Waterway. The model attempts to assess the suitability of habitat for providing foraging and resting requirements to a diverse assemblage of migratory landbirds. This model has not been validated with field data.

Minimum Area of Application

Various authors have concluded that even very small patches of wooded habitat can be attractive to migrants. Migrants were found in greater densities in smaller wooded hammocks in coastal South Carolina in a sample that ranged down to 0.32 ha (Somershoe and Chandler 2004), and Skagen et al. (1998) concluded that riparian habitat patches were important to migrants in the southwestern USA no matter how small. Pachett and Dunning (2009) found that migrant densities actually increased as woodlot size decreased, in wooded fragments in an agricultural landscape in Indiana. All their woodlots were < 10 ha in size.

The value of tiny woodlots to migrant birds stems from the fact that migrants in an inhospitable landscape will gravitate to whatever forested habitat is available. It is quite possible that many of these small fragments are lower in quality than habitats in larger forested areas, but this is not a variable that can be reliably addressed by this model as data on food resources and predation threats are likely to be unavailable for most sites. Thus, this model can probably be profitably applied to even very small woodlot fragments less than 1 ha in size.

Evaluation of Nominated Projects

Each year, projects are nominated at regional planning team meetings held at various locations along the coast. Each nominated project is assigned to one of the five Federal agencies which administer the CWPPRA program. Those agencies include the FWS, Environmental Protection Agency (EPA), National Marine Fisheries Service (NMFS), U.S. Army Corps of Engineers (USACE), and Natural Resources Conservation Service (NRCS). The sponsoring agency is responsible for preparation of fact sheets which include a project description, preliminary costs, and an estimate of project benefits. The features, estimated benefits, and estimated costs for all nominated projects are reviewed by the EnvWG and the Engineering Work Group (EngWG). The benefits and cost estimates, and other pertinent information are provided to the Planning and Evaluation Subcommittee which prepares a matrix containing all project information. The Technical Committee utilizes that information in selecting which projects to further evaluate as candidate Priority Project List (PPL) projects. Candidate projects remain assigned to one of the five Federal agencies. The Louisiana Office of Coastal Protection and Restoration (OCPR) usually serves in a supporting role to the Federal agencies although they may have the primary responsibility of preparing information for some candidate projects. The sponsoring agency serves as the point of contact for the project and is responsible for development of project features, preparation of cost estimates, and preparation of the draft WVA.

Field Investigation of Candidate Projects

The first step in evaluating candidate projects is to conduct a field investigation of the project area. This field investigation has several purposes: 1) familiarize the EnvWG and EngWG with the project area, 2) visit the locations of project features, 3) discuss a benefited area for the upcoming project boundary meeting, 4) determine habitat conditions in the project area, 5) compile a list of vegetative species and discuss habitat classification, and 6) collect data for the WVA (e.g., cover of submerged aquatics, water depths, salinities, etc.).

The sponsoring agency is responsible for field trip logistics and coordinating with landowners, local government, all CWPPRA agencies, the AAG, and other field trip attendees. Field trip attendees typically consist of each agency's EnvWG and EngWG representatives. The sponsoring agency should be familiar with the project area so that field time is spent efficiently.

The primary purpose of the field investigation is to allow members of the EnvWG and EngWG to familiarize themselves with the project area and project features in order to make informed decisions in the evaluation of the WVA. The sponsoring agency should not treat the interagency field investigation as the only opportunity to conduct surveys or take measurements to develop designs and/or cost estimates for the project. The sponsoring agency should have obtained that information during previous field trips or should plan a follow-up field trip. In cases where the project area is very large, it may be necessary to divide the group into small work parties to collect WVA information across the project area or to allow some areas to be investigated by at least a subset of the entire group. However, an effort should be made to keep the group together to facilitate discussion about wetland conditions in the project area, the causes of habitat loss, the project features, and the effectiveness of the project features.

Project Boundary Determination

The project boundary is the area where a measurable biological impact, in regard to the WVA variables, is expected to occur with project implementation. Project boundary meetings are usually scheduled after the completion of candidate project field trips. Boundary meetings are attended by the EnvWG, EngWG, and sometimes other agency representatives. The U.S. Geological Survey (USGS)-Baton Rouge Field Station provides GIS support. Proposed project boundaries (i.e., shape files) should be provided to USGS prior to the boundary meeting. At the boundary meeting, the project sponsor provides a map(s) indicating the project features and presents the rationale for the proposed boundary. The boundary is discussed by the entire group and revisions to the boundary are made by consensus or, if necessary, by vote.

Coastal chenier/ridge habitat includes forested barrier headland ridges, forested cheniers, and in some instances, forested spoil areas. Such areas are typically at an elevation capable of supporting trees and/or shrub/scrub vegetation and are not influenced by an average daily tide.

Note: Outside of the CWPPRA process (e.g., USACE civil works project evaluations), restoration boundaries are determined through the use of aerial/satellite photographs, LIDAR information, USGS habitat and quadrangle maps and site visits. The boundary and revisions to the boundary are made by interagency group consensus. For non-restoration projects, boundaries are usually provided by the construction agency as areas designated for construction or clearing (typically to provide temporary or permanent rights-of-way) or areas that will experience changes in hydrology.

Selection of Target Years

All CWPPRA project WVAs are conducted for a period of 20 years which corresponds to the authorized project life of a CWPPRA project. (*Note: Other programs (e.g., LCA) may require a longer period of analysis (e.g., 50 years or more to include the date of impact, construction duration, or date of mitigation)*). Each project evaluation must include target years (TY) 0, 1, and 20. Target year 0 (TY0) represents baseline or exiting conditions in the project area and TY20 (or TY50 for LCA projects) represents the projected conditions at the end of the project life. A linear fit (over the project life) is used to make the projection unless there are expected changes that may occur in the intervening years. Examples of these changes include (but are not limited to):

- 1. Storm events: Storm frequencies for the Louisiana coast vary depending on the period of record analyzed but are generally 8 to 10 years. For sites located along the gulf shoreline, it may be necessary to select a target year which corresponds to a storm event which is likely to occur within the project life in order to capture the effects of the storm. A storm event could impact a coastal chenier/ridge by reducing vegetative cover if the chenier/ridge is overwashed. Selection of a storm impact target year should be based on the storm return frequency that would result in substantial impact (e.g., overtopping). Storm impact and return frequency (Stone et al. 1997), by barrier system, should be used as justification when selecting target years. If the FWOP loss rates are based on data which include the effects of storm events then care must be taken to ensure that effects of storm events are not double counted.
- 2. Changes in frequency and duration of flooding: As relative sea level (RSL) rise continues, flooding frequency and duration may increase which could result in habitat loss.
- 3. Salinity changes: Salinity may increase as a system continues to lose land or is impacted by a channel breach.
- 4. Project implementation: Additional CWPPRA (or non-CWPPRA) projects may be built which could influence the conditions in the current project area.
- 5. Maintenance events: These would include items such as phased planting, a second lift on rocks used for shoreline protection, additional pumping of material for beach nourishment, replacement of structures, etc.

6. Increase or decrease in vegetative cover: These could be associated with project features (initial or phased) or environmental changes (see numbers 1, 2, 3, and 5).

During the life span for which a project analysis is conducted, target years are selected which represent time intervals when changes are expected to occur. When habitat or environmental conditions change sufficient to result in a change to a variable's suitability index, additional target years may be added to the analysis. The new conditions are then projected forward to obtain the expected conditions until the next target year, or the end of the project life if there are no more intervening target years. In addition, target years should be selected for years in which any variable undergoes sufficient change to result in a large change in the overall HSI.

The EnvWG has adopted certain target year conventions for certain project types. Although these conventions are generally applied, exceptions are sometimes proposed and may be accepted by the group. It should be noted that these conventions are based on assumptions developed by the group and have not been validated. It is the responsibility of the project sponsor to provide justification for deviating from these conventions and this should be recorded in the Project Information Sheet. These conventions are summarized in Table 1. Maintenance events shall be included as additional target years as needed; other target years may be added to include other expected events (breaches, vegetation or salinity shifts, or changes in RSL rise). The number of target years may be extended for programs which require consideration of a longer project life. Values for all variables must be determined for each target year selected. The variable values represent conditions at the end of the target year. For FWP, TY1 represents the conditions in the project area one year after project construction.

Table 1. Summary of Target Years used for CWPPRA coastal chenier/ridge projects.

Project/Habitat	Target Year						
Type	0	1	3	5	10	20	>20
Coastal Ridge/Chenier	Measured				Storm Event		Storm Event
Restoration	baseline				(?)		(?)

Use of the Community Habitat Models

Each community model contains a set of variables which is important in characterizing the habitat quality of several coastal wetland habitat types relative to the fish and wildlife communities dependent on those environments. Baseline (TY0) values are determined for each of those variables to describe existing conditions in the project area. Future values for those variables are projected to describe conditions in the area without the project and with the project. Projecting future values is the most complicated, and sometimes controversial, part of this process. It requires project sponsors to substantiate their claims with monitoring data, research findings, scientific literature, or examples of project success in other areas. Not all future projections can be substantiated by the results of monitoring or

research, and, as with all wetland assessment methodologies, some projections are based on best professional judgment and can be subjective. It should be noted that future projections are not the sole responsibility of the project planner. It is the responsibility of the evaluation team (i.e., agency representatives, academics, and others) to use the best information available in developing those projections. Many times, the collective knowledge of the evaluation team is the only tool available to predict project benefits. The various workgroups are comprised of many individuals with diverse backgrounds and all project scenarios are discussed by the group and a final outcome is usually reached by consensus. Key assumptions made during the evaluation process, e.g., regarding the effects of climate change or storms, should be recorded on the Project Information Sheet. There are occasionally off-site conditions and human disturbances adjacent to a project area. These have an effect on the animals in the project area, however these disturbances are considered to be the same under FWOP and FWP conditions.

An important point to consider when projecting benefits is the effect of other constructed or authorized projects on the project area. Benefits attributed to those projects should be taken into consideration when projecting benefits for any candidate project. That procedure prevents a candidate project from being credited with benefits previously attributed to another project (i.e., double-counting). CWPPRA projects are not taken into consideration unless authorized for construction. Project planners should also consider the benefits of non-CWPPRA projects funded by other authorities (e.g., WRDA, State-only projects, and landowner-funded projects). An important aspect of the WVA, as it is used in restoration planning, is the comparison of the FWOP to the FWP condition. If another project influences the project area of the evaluated project, the other project must be considered as baseline and put into both FWOP and FWP. For instance, if a project being evaluated is in the area of a river diversion, the effect of the diversion must be considered in both the FWOP and FWP conditions.

Model Application

The coastal chenier/ridge community model was developed to determine the suitability of coastal forested ridges in providing foraging and resting habitat for transient migratory landbirds. The model should be applied to forested habitats within the coastal zone consisting of non-grazed barrier headland ridges, cheniers, and in some cases, spoil areas. Those areas should be at an elevation capable of supporting woody vegetation such as trees and/or shrub/scrub habitat and are not influenced by the average daily tide. This model is not intended to be applied to other forested habitats such as bottomland hardwoods or swamp.

Baseline Habitat Classification and Land/Water Data

Baseline data can be obtained from the most recent habitat classification data provided by USGS (or other sources) which delineates forested areas. As with other project types, if the project area acreage is not current, the erosion rate should be applied to that acreage and adjusted to the current year. For coastal ridge habitats located along the gulf shoreline, erosion data could be obtained from the U.S. Geological Survey's Louisiana Barrier Island

Erosion Study-Atlas of Shoreline Changes in Louisiana from 1853 to 1989 and the Atlas of Sea-Floor Changes from 1878 to 1989.

Variable Selection

Several existing Habitat Suitability Index models were considered for use in determining migratory landbird stopover habitat quality, including the models for roseate spoonbill, great egret, brown thrasher, swamp rabbit, veery, and yellow warbler. However, the emphasis for all these models was breeding habitat requirements. None addressed the set of variables that were determined to be most pertinent to assessment of stopover habitat quality, where a variety of species with differing foraging strategies occupy the habitat for a relatively brief time period. Selection of the variables used for this model was based upon a review of available literature (See Appendix A for a review of the variables' role in providing wildlife habitat), interviews with specialists who have studied various aspects of migratory landbird ecology in coastal stopover habitats, and the field knowledge of those involved with development of this model.

More than 80 species of neotropical migratory landbirds from at least eleven Families pass through Louisiana during the spring and fall (Sauer et al. 2000). At the peak of spring migration, it is estimated that as many as 50,000 birds per day per mile of coastline enter the state (Conner and Day 1987). During favorable weather conditions, the majority of these birds will bypass small wooded areas embedded in coastal marsh and land in extensive forested areas north of the marshes, but during thunderstorms or other unfavorable conditions, a large percentage of these individuals may stop in these small coastal wood patches (Gauthreaux 1971). Identifying the optimal stopover habitat characteristics for such a varied group of birds is challenging. Martin (1980) stated that migrants often select habitats en route that superficially resemble their breeding habitat. Moore et al. (1995) concluded that spring migrants on the northern Gulf of Mexico coast preferentially select structurally diverse stopover sites, consisting of forested areas with mixed shrub layers, and that maintenance of plant species and structural diversity should be a goal at migratory landbird stopover sites. Similarly, Martin (1980) found that habitat structure in shelterbelt "island" habitat in the Great Plains influences migrant diversity and abundance. Robinson and Holmes (1984) determined that the diversity of bird species in terrestrial habitats is correlated with factors associated with vegetation structure or composition, including diversity of foliage height, and stated that, in general, the number of bird species increases with the addition of vertical vegetation layers. Based upon the findings above and upon prior field investigations, we proposed three habitat assessment variables: 1) percent tree canopy cover, 2) percent shrub/midstory canopy cover, and 3) the number of native woody species planted/present on the site. We also identified some tentative variables, including percent herbaceous ground cover, minimum patch size, average tree height, and proximity of the site to other forested patches.

We asked three specialists with expertise in the arena of migratory landbird habitat requirements to comment on our proposed habitat variables: William C. Hunter, U.S. Fish and Wildlife Service, Atlanta, GA; Mark Woodrey, U.S. Fish and Wildlife Service, Jackson, MS; and Wylie Barrow, USGS, National Wetlands Research Center, Lafayette,

LA. Their comments have been incorporated into the model and referenced as personal communications.

All specialists queried concurred that structural and floristic diversity were key factors to consider. Additionally, they all stressed the importance of fresh water sources for spring trans-Gulf migrants. However, we did not develop a variable to capture this factor, as the model was being designed for created habitat in an area where fresh water input would probably be limited to precipitation. A variable to measure fresh water proximity should probably be created for assessing extant stopover sites. We decided not to use a variable for percent herbaceous ground cover because for the majority of birds that would be likely to use forested coastal areas, the amount of herbaceous ground cover would not be as critical a habitat need as would tree and shrub cover (Moore et al. 1995). Neotropical migratory landbirds dependent upon grasslands would not typically use forested cheniers, spoil banks, etc., instead gravitating towards marshes, pastures, and agricultural fields. No minimum patch size for sites was established, because while larger patches are accepted to be more valuable to birds than small patches, a small patch surrounded by non-forested habitat could be very important at times to migrants (Barrow, pers. comm.). The same basic rationale was used in determining that a variable to rank sites on the basis of their proximity to other forested patches was not practical. Sites adjacent to other forested sites are assumed to facilitate migration of forest birds by reducing the distance needed to travel through open and potentially inhospitable terrain, but an isolated woodland could be important during periods of inclement weather (Barrow, pers. comm.). Canopy height was ruled out as a variable because no data was discovered that addressed minimum canopy heights at stopover sites. The developers of this model assumed that percent canopy cover was a more pertinent variable to consider.

Suitability Index Graph Development

Each of the community models developed for CWPPRA includes SI graphs for each variable. Suitability Index graphs are unique to each variable and define the relationship between that variable and habitat quality. A variety of resources was utilized to construct each SI graph, including consultation with professionals and scientists with expertise in the study of migrant landbirds and their habitat requirements, published and unpublished data and studies, and personal knowledge of the model development team. A review of contemporary, peer-reviewed scientific literature was also conducted for each of the variables, providing ecological support for the form of the SI graph for each of the variables (Appendix A). The process of SI graph development is one of constant evolution, feedback, and refinement; the form of each SI graph was decided upon through consensus among the model development team.

All suitability graphs have a minimal SI of 0.1. This is because any area that falls into the cover type addressed by the WVA model provides some habitat value. For example, a coastal ridge with no shrub or midstory cover still has value to migrant landbirds.

The Suitability Index graphs were developed according to the following assumptions.

Variable 1 – Percent tree canopy cover

Neotropical migratory landbirds preferentially use stopover sites exhibiting high structural and floristic diversity (Moore et al.1995). To achieve the desired vertical plant diversity (i.e., a mix of trees, tree saplings, shrubs, vines, and herbaceous plants), a moderately closed tree canopy would be preferred to over a totally closed canopy (Hunter, pers. comm.; Barrow, pers. comm.; Woodrey, pers. comm.). Tree canopy coverage ranging from 65 - 85% is assumed to provide optimal conditions to allow for establishment of midstory trees, shrubs, vines, and herbaceous plants, provided that the site is not grazed. Tree species that may occur at coastal stopover sites include sugarberry (*Celtis laevigata*), toothache tree (*Zanthoxylum clava-herculis*), live oak (*Quercus virginiana*), water oak (*Q. nigra*), honey locust (*Gleditsia triacanthos*), red mulberry (*Morus rubra*), and green haw (*Crataegus viridis*) (Louisiana Natural Heritage Program 1988, Materne 2000, Gosselink et al. 1979, Thomas and Allen 1996, Thomas and Allen 1998).

Variable 2 – Percent shrub/midstory cover

Shrub-scrub habitats provide important foraging and resting areas for migrant landbirds (Moore et al. 1995). Shrub-scrub habitats are also presumed to be important to migratory passerine birds as refuges from raptor predators (Moore et al. 1990). For the purposes of this model, shrub/midstory means multi-stemmed shrubs, single-stemmed midstory trees, single-stemmed saplings of overstory tree species, and woody vines. Shrub/midstory canopy coverage ranging from 35 - 65% is assumed to represent optimal conditions at a forested site. Species of shrubs, small trees, and woody vines that may be found at stopover sites include Small's acacia (Acacia minuta), wax myrtle (Morella cerifera), dwarf palmetto (Sabal minor), yaupon holly (Ilex vomitoria), saltbush (Baccharis halimifolia), greenbriars (Smilax spp.), grapes (Vitis spp.), prickly pear cactus (Opuntia spp.), Virginia creeper (Parthenocissus quinquefolia), pepper vine (Ampelopsis arborea), blackberries (Rubus spp.), rattlebox (Sesbania drummondii), marshelder (Iva frutescens), poison ivy (Toxicodendron radicans), Carolina wolf-berry (Lycium carolinianum), marine vine (Cissus incisa), elderberry (Sambucus canadensis), and Chinese tallow (Triadica sebifera) (Louisiana Natural Heritage Program 1988, Materne 2000, Gosselink et al. 1979, Thomas and Allen 1996, Thomas and Allen 1998).

Variable 3 – Native woody species diversity

A wide variety of fruits, flowers, nectars, and animals, primarily invertebrates, are consumed by migrant landbirds (Moore et al. 1995, Fontenot 1999, Barrow, pers. comm.). Robinson and Holmes (1984) concluded that vegetation provides birds with foraging opportunities and constraints depending upon the structure of individual plants, aggregations of plants, and the arthropods that these plants host. The resulting foraging conditions define the diversity of bird species in the habitat. While some exotic plant species provide foraging opportunities to migrant landbirds, others are of limited value to spring and fall migrant birds (Barrow and Renne 2001, Barrow, pers. comm.). It is assumed that a variety of native shrubs, midstory trees, woody vines and overstory trees will provide sufficiently diverse foraging and resting habitat to enable spring and fall

transient birds to continue their migration. Woody plant species composition and diversity in stopover habitat is influenced by elevation, soil type, and salinity levels (Materne 2000, Louisiana Natural Heritage Program 1988), and the capacity of sites to support certain species will depend upon these and other factors. Based upon a review of available written information and upon the field knowledge of those involved in development of this model, and upon the range of conditions likely to be encountered in stopover habitat in the area the model addresses, presence of >10 species of native trees, shrubs, and woody vines is assumed to represent optimal conditions. It is also assumed that the parameters defining optimal conditions for variables V1 and V2 will moderate the potential for variable V3 to exert a false reading of habitat value for migrant landbirds, should the diversity of plant species be confined only to trees, or to shrubs, or to woody vines.

Habitat Suitability Index Formula

Within the HSI formula, any Suitability Index can be weighted by various means to increase the power or "importance" of that variable relative to the other variables in determining the HSI. For this model, it was assumed that the variables are of equal weight in determining the habitat quality of a coastal chenier/ridge. A geometric mean was chosen, as opposed to an arithmetic mean, to convey the weak compensatory relationship between the three variables. An arithmetic mean is often used when it is assumed that the model variables have a strong compensatory relationship (i.e., a high value for one variable can compensate for the low value of another variable). The geometric mean is used to discourage a variable with a marginal or low suitability from being offset by the high suitability of the other variables (U.S. Fish and Wildlife Service 1981). It was assumed that the three variables in this model do not have a strong compensatory relationship.

HSI Calculation: $HSI = (SIV_1 \times SIV_2 \times SIV_3)^{1/3}$

Subsidence and Sea Level Rise

Subsidence and sea level rise (SLR) are assumed to affect FWOP and FWP scenarios. For most CWPPRA project evaluations (e.g., those within interior coastal areas), it is assumed that historical wetland loss rates calculated from a recent time period (e.g., 1985 to 2010) adequately capture the effects of subsidence and SLR for the relatively short analysis period of 20 years. However, for barrier island project evaluations, measures of subsidence and SLR are incorporated into many of the analytical modeling tools (e.g., SBEACH) used to determine project performance.

Model Revisions

As our knowledge of coastal ecology and coastal restoration benefits improves, the need may arise for model revision. Model revisions are documented in Appendix B to allow tracking between versions. In addition, the "Revisions" tab of the Excel model spreadsheet should also reflect any revisions and the revision date.

Additional Notes

All project WVAs should be prepared in the Project Information Sheet (PIS) format (Appendix C) which was adopted by the EnvWG. At a minimum, the PIS should provide; 1) baseline habitat analysis, 2) marsh/wetland loss analysis, 3) the calculations for each variable, 4) documentation of data sources and key assumptions and 5) a list of literature cited and/or reference material. Project evaluations are conducted much more efficiently when the project planner is well-prepared and all necessary information is presented in the PIS. The PIS should be revised after the WVA meeting to reflect all decisions made by the EnvWG. A copy of the final PIS should be provided to each member of the EnvWG.

The official calculation of project benefits is the responsibility of the EnvWG Chairman. However, project planners are encouraged to also calculate project benefits to serve as a check on the information provided to the CWPPRA Planning and Evaluation Subcommittee. Project benefits are calculated using Excel spreadsheets which have been developed specifically for each habitat model.

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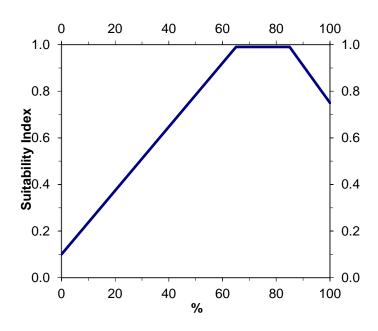
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COASTAL CHENIER/RIDGE

Variable V₁ Percent tree canopy cover.

Suitability Graph



Line Formulas

If % < 65, then SI = (0.014*%) + 0.1

If 65 < % < 85, then SI = 1.0

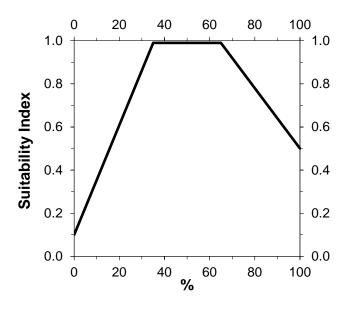
If % > 85, then SI = (-0.017*%) + 2.445

Suitability index graph relationships for Variable V1 were determined by: 1) reviewing available literature, 2) interviewing specialists who have studied various aspects of migratory landbird ecology in coastal stopover habitats, and 3) field knowledge of those involved with development of this model.

COASTAL CHENIER/RIDGE

Variable V₂ Percent shrub/midstory cover.

Suitability Graph



Line Formulas

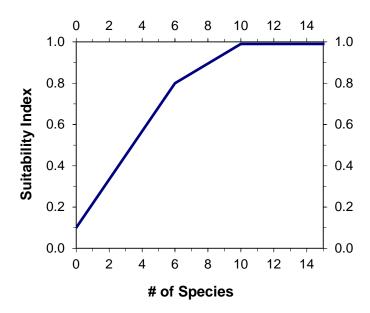
If
$$\% < 35$$
, then $SI = (0.026*\%) + 0.1$
If $35 \le \% \le 65$, then $SI = 1.0$
If $\% > 65$, then $SI = (-0.014*\%) + 1.9$

Suitability index graph relationships for Variable V2 were determined by: 1) reviewing available literature, 2) interviewing specialists who have studied various aspects of migratory landbird ecology in coastal stopover habitats, and 3) field knowledge of those involved with development of this model.

COASTAL CHENIER/RIDGE

Variable V₃ Native woody species diversity (shrubs, midstory trees, woody vines and overstory trees).

Suitability Graph



Line Formulas

If
$$\# < 6$$
, then $SI = (0.117*\%) + 0.1$
If $6 \le \# < 10$, then $SI = (0.05*\%) + 0.5$
If $\# \ge 10$, then $SI = 1.0$

Suitability index graph relationships for Variable V3 were determined by: 1) reviewing available literature, 2) interviewing specialists who have studied various aspects of migratory landbird ecology in coastal stopover habitats, and 3) field knowledge of those involved with development of this model.

Appendix A

A description of the relative role of the model variables in providing habitat to the modeled community based on available, contemporary peer-reviewed scientific literature is provided below.

Variable V1 – Percent tree canopy cover

The presence of both a substantial canopy and sufficient light penetration to allow dense understory and edge characteristics is important. Substantial canopy coverage is important because providing habitat for forest dwelling songbird migrants is the expressed goal of managing these habitats, and therefore significant canopy vegetation must be present to make forest species accept these habitats. The existence of sufficient canopy opening to allow light penetration to stimulate understory development is a recognition of the value of scrubby and edge habitats for migratory small land birds. The attractiveness of early successional, edge, or scrubby habitats to migrants has been reported numerous times in studies of migrant stopover habitat selection in North America (Kilgo et al. 1999; Latta and Brown 1999; MacKinnon and Aburto 2003; Martin and Karr 1986; Rodewald and Brittingham 2002, 2004, 2007; Smith and Hatch 2008; Suthers et al. 2000; Swanson et al. 2003; Willson et al. 1982). Others have specifically reported high use of habitat with low canopy cover (Blake and Hopper 1986) or successful refueling in such open canopy habitats (Bonter et al. 2007, who reported gains in mass of 9% per day in spring and fall).

Variable V2 – Percent shrub/midstory cover

Various woodland migrants inhabit the lower strata of forests either in passage or on their winter or summer ranges, such as the Kentucky Warbler (Oporornis formosus) or Northern Waterthrush (Seiurus noveboracensis) (Lowery 1974, Rappole and Warner 1976). One study of passage migrants has found increased numbers associated with dense understory in Arizona (Hutto 1985), and another found shrub/sapling breeding species to show high use of areas with dense cover in the shrub layer in their Pennsylvania stopovers (Rodewald and Brittingham 2007). Migrants in South Dakota have shown high use of habitats dominated by ragweed understory (Swanson et al. 2003). Another reason for high emphasis on low strata is the frequent use of fruit by passage migrants (Parrish 1997, Smith et al. 2007, Suthers et al. 2000); other studies have shown their habitat choice to be correlated with availability of fruit in the eastern USA (Blake and Hopper 1986, Buler et al. 2007) or in Israel (Sapir et al. 2004). Fruits are often associated with scrubby, edge, or early successional habitats in these studies. The importance of having understory or midstory vegetation at stopover sites, whether because low strata are preferred by a species or because it utilizes fruit, are the reason for weighing understory coverage equally to canopy coverage.

Variable V3 – Native woody species diversity

Native woody species floristic diversity has also been connected to migrant habitat use during stopover. Passage migrants have shown greater use of sites with higher floristic

diversity in New Mexico (Walker 2008) and South Dakota (Martin 1980). A study in Louisiana showed that migrants use a diverse array of foods on cheniers that include arthropods, fruit, nectar, and seeds (Barrow et al. 2000); because these resources are often linked to individual plant species, floristic richness is important on cheniers. Floristic or habitat diversity is also important when suitable habitats or foods vary among migratory species, or change over time. For instance, a site in which a series of plant species flower at different times in the spring will have nectar resources available throughout the period. Some studies have shown that different plants or foods peak in their usefulness to migrants at different times of the season (Strode 2009, Suthers et al. 2000), or that favored habitats or resources change from spring to fall (Chernetsov and Manukyan 2000; Smith et al. 1998; Weisbrod et al. 1993; Winker et al. 1992; Hutto 1985; Balda et al. 1975; Austin 1970) or year to year (Smith et al. 1998). Studies have also shown that different species of migrants occur in peak numbers in different habitats (Dunn 2001, Hutto 1985, Moore and Simons 1990, Parnell 1969, Rodewald and Brittingham 2004, Smith and Hatch 2008) or in association with different plant species (Graber and Graber 1983, Smith et al. 1998, 2004) within the same geographical area. Different sex and age classes of some migrant species also show peak use of different habitats in the same area (Yong et al. 1998 NM). All these examples of diversity in habitat or resource use illustrate the value of floristic diversity, which increases the chances of meeting the preferences of a variety of species at the same site, or species that pass through at a variety of times. High floristic diversity presumably also makes in more likely that species with unusual or specialized habitat use patterns will be able to find suitable resources (e.g., Yellow Warbler Dendroica petechia Weisbrod et al. 1993).

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Appendix B

Document Revisions

Version 1.0 – March 2010 document developed via the Corps' WVA certification process

Version 1.1 – January 2012

1) Pertinent sections from Procedural Manual incorporated

Appendix C

Project Information Sheet Format

Project Name:

Sponsoring Agency: List Environmental and Engineering Work Group Contacts

Project Location and Description: Describe project location (Coast 2050 region, basin, parish, nearby cities, important bodies of water, total acres, wetland type, etc.). Include a project map.

Problem: Discuss the major causes (historical and current) of habitat loss/degradation in the project area.

Objectives: How will the project address the major causes of habitat loss/degradation in the project area? What are the specific objectives of the project?

Project Features: List all project features including their locations, dimensions, etc. The project map should include the locations of all project features.

Monitoring and Modeling Results for Similar Projects: Relevant monitoring reports and modeling studies should be discussed.

Miscellaneous: As necessary, discuss the following subjects as they relate to the project. Climate change

Off site disturbances – these are generally the same FWOP and FWP. Any project risks or uncertainties

V1 – Percent Tree Canopy Cover

- 1) Discuss the historical and current vegetative community and any trends noted for the area.
- 2) Discuss the methods used to determine the percentage of tree canopy cover.

TY 0 – Percent tree canopy cover.

FWOP – Provide percentages for tree canopy cover for each target year (TY) and include all assumptions. Use as many TYs as necessary and justify each.

TY 1 -

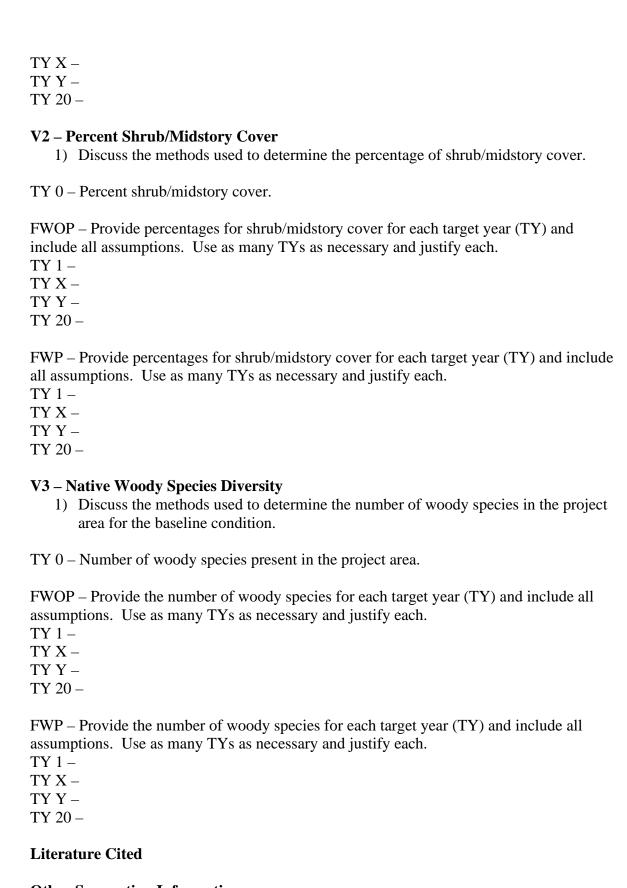
TYX -

TYY-

TY 20 -

FWP – Provide percentages for tree canopy cover for each target year (TY) and include all assumptions. Use as many TYs as necessary and justify each.

TY 1 -



Other Supporting Information

Coastal Wetlands Planning, Protection, and Restoration Act 28th Priority Project List Report

Appendix C

Wetland Value Assessment for Candidate Projects

Appendix C

Wetland Value Assessment for Candidate Projects

Table of Contents

<u>Project Name</u>	<u>Page</u>
East Delacroix Marsh Creation and Terracing.	C-1
Breton Landbridge Marsh Creation (West)	C-10
Bayou Terre aux Boeufs Ridge Restoration and Marsh Creation	C-15
Grand Bayou Ridge and Marsh Restoration	C-23
East Catfish Lake Marsh Creation and Shoreline Protection	C-35
Small Bayou LaPointe Marsh Creation	C-40
North Marsh Restoration (North Increment)	C-45
Southeast White Lake Marsh Creation	C-58
Long Point Bayou Marsh Creation	C-63
Coastwide Hydrologic Improvements	C-68

WETLAND VALUE ASSESSMENT

Benefits Summary Sheet

Brackish Marsh Project: East Delacroix Marsh Creation and Terracing

TOTAL BENEFITS IN AAHUS DUE TO PROJECT

Area	AAHUs
Brackish Marsh - Marsh Creation	137.19
	137.17
Area	AAHUs
Brackish Marsh - Terracing Area	2.73

TOTAL BENEFITS = 140 AAHUS

WETLAND VALUE ASSESSMENT COMMUNITY MODEL Brackish Marsh

Project: East Delacroix Marsh Creation and Terracing - MC area Project Area: 406

Condition: Future Without Project

		TY	0	TY	1	TY	20
Variable		Value	SI	Value	SI	Value	SI
V1	% Emergent	13	0.22	13	0.22	10	0.19
V2	% Aquatic	60	0.64	60	0.64	60	0.64
V3	Interspersion	%		%		%	
	Class 1	0	0.20	0	0.20	0	0.10
	Class 2	0		0		0	
	Class 3	0		0		0	
	Class 4	100		100		0	
	Class 5	0		0		100	
V4	%OW <= 1.5ft	7	0.19	7	0.19	1	0.11
V5	Salinity (ppt)	4.3	1.00	4.3	1.00	4.3	1.00
V6	Access Value	1.0000	1.00	1.0000	1.00	1.0000	1.00
	Emergent Marsh HSI =		0.37	EM HSI =	0.37	EM HSI =	0.34
	Open Water H	SI =	0.70	OW HSI =	0.70	OW HSI =	0.68

Project: East Delacroix Marsh Creation and Terracing - MC area

Project Area: 406

FWOP

FWUP	-						
		TY		TY		TY	
Variable		Value	SI	Value	SI	Value	SI
V1	% Emergent						
V2	% Aquatic						
V3	Interspersion	%		%		%	
	Class 1						
	Class 2						
	Class 3						
	Class 4						
	Class 5						
V4	%OW <= 1.5ft						
V5	Salinity (ppt)						
V6	Access Value						
		EM HSI =		EM HSI =		EM HSI =	
		OW HSI =		OW HSI =		OW HSI =	

Project: East Delacroix Marsh Creation and Terracing - MC area

Project Area: 406

FWOP

FWOP	n 1			1		í-	
		TY		TY		TY	
Variable		Value	SI	Value	SI	Value	SI
V1	% Emergent						
V2	% Aquatic						
V3	Interspersion	%		%		%	
	Class 1						
	Class 2						
	Class 3						
	Class 4						
	Class 5						
V4	%OW <= 1.5ft						
V5	Salinity (ppt)						
V6	Access Value						
		EM HSI =	_	EM HSI =		EM HSI =	
		OW HSI =	_	OW HSI =		OW HSI =	

WETLAND VALUE ASSESSMENT COMMUNITY MODEL Brackish Marsh

Project: East Delacroix Marsh Creation and Terracing - MC area Project Area: 406

Condition: Future With Project

		TY	0	TY	1	TY	3
Variable		Value	SI	Value	SI	Value	SI
V1	% Emergent	13	0.22	15	0.24	38	0.44
V2	% Aquatic	60	0.64	0	0.10	60	0.64
V3	Interspersion	%		%		%	
	Class 1	0	0.20	0	0.10	0	0.40
	Class 2	0		0		0	
	Class 3	0		0		100	
	Class 4	100		0		0	
	Class 5	0		100		0	
V4	%OW <= 1.5ft	7	0.19	100	0.60	100	0.60
V5	Salinity (ppt)	4.3	1.00	4.3	1.00	4.3	1.00
V6	Access Value	1.0000	1.00	0.0001	0.10	1.0000	1.00
	Emergent Marsh HSI =		0.37	EM HSI =	0.27	EM HSI =	0.57
	Open Water HS	SI =	0.70	OW HSI =	0.20	OW HSI =	0.74

Project: East Delacroix Marsh Creation and Terracing - MC area

FWP

FVVP	_						
		TY	5	TY	20	TY	
Variable		Value	SI	Value	SI	Value	SI
V1	% Emergent	96	0.96	85	0.87		
V2	% Aquatic	90	0.91	90	0.91		
V3	Interspersion	%		%		%	
	Class 1	100	1.00	100	1.00		
	Class 2	0		0			
	Class 3	0		0			
	Class 4	0		0	·		
	Class 5	0		0	·		
V4	%OW <= 1.5ft	100	0.60	80	1.00		
V5	Salinity (ppt)	4.3	1.00	4.3	1.00		
V6	Access Value	1.0000	1.00	1.0000	1.00		
		EM HSI =	0.98	EM HSI =	0.92	EM HSI =	
		OW HSI =	0.93	OW HSI =	0.96	OW HSI =	

Project: East Delacroix Marsh Creation and Terracing - MC area

Project Area:

Project Area:

406

406

-WP

FWP	_						
		TY		TY		TY	
Variable		Value	SI	Value	SI	Value	SI
V1	% Emergent						
V2	% Aquatic						
V3	Interspersion	%		%		%	
	Class 1						
	Class 2						
	Class 3						
	Class 4						
	Class 5						
V4	%OW <= 1.5ft						
V5	Salinity (ppt)						
V6	Access Value						
		EM HSI =		EM HSI =		EM HSI =	
		OW HSI =		OW HSI =		OW HSI =	

AAHU CALCULATION - EMERGENT MARSH

Project: East Delacroix Marsh Creation and Terracing - MC area

Future Without Project			Total	Cummulative
TY	Marsh Acres	x HSI	HUs	HUs
0	53	0.37	19.79	
1	52	0.37	19.42	19.61
20	39	0.34	13.22	308.68
Max TY=	20		AAHUs =	16.41

Future With Project			Total	Cummulative
TY	Marsh Acres	x HSI	HUs	HUs
0	53	0.37	19.79	
1	61	0.27	16.61	18.34
3	155	0.57	88.44	95.71
5	390	0.98	381.56	438.07
20	346	0.92	317.59	5237.03
Max TY=	20		AAHUs	289.46

NET CHANGE IN AAHUS DUE TO PROJECT	
A. Future With Project Emergent Marsh AAHUs =	289.46
B. Future Without Project Emergent Marsh AAHUs =	16.41
Net Change (FWP - FWOP) =	273.04

AAHU CALCULATION - OPEN WATER

Project: East Delacroix Marsh Creation and Terracing - MC area

Future Without Project			Total	Cummulative
TY	Water Acres	x HSI	HUs	HUs
0	353	0.70	246.40	
1	354	0.70	247.10	246.75
20	367	0.68	251.36	4735.93
Max TY=	20		AAHUs =	249.13

Future With Project			Total	Cummulative
TY	Water Acres	x HSI	HUs	HUs
0	353	0.70	246.40	
1	3	0.20	0.61	94.67
3	10	0.74	7.43	6.78
5	16	0.93	14.84	21.90
20	60	0.96	57.43	538.80
Max TY=	20		AAHUs	33.11

NET CHANGE IN AAHUS DUE TO PROJECT	
A. Future With Project Open Water AAHUs =	33.11
B. Future Without Project Open Water AAHUs =	249.13
Net Change (FWP - FWOP) =	-216.03

TOTAL BENEFITS IN AAHUS DUE TO PROJECT					
A. Emergent Marsh Habitat Net AAHUs =	273.04				
B. Open Water Habitat Net AAHUs =	-216.03				
Net Benefits= (2.6xEMAAHUs+OWAAHUs)/3.6	137.19				

WETLAND VALUE ASSESSMENT COMMUNITY MODEL **Brackish Marsh**

Project: East Delacroix Marsh Creation and Terracing - Terrace Area Project Area: 191

Condition: Future Without Project

		TY	0	TY	1	TY	20
Variable		Value	SI	Value	SI	Value	SI
V1	% Emergent	3	0.13	3	0.13	2	0.12
V2	% Aquatic	60	0.64	60	0.64	60	0.64
V3	Interspersion	%		%		%	
	Class 1	0	0.10	0	0.10	0	0.10
	Class 2	0		0		0	
	Class 3	0		0		0	
	Class 4	0		0		0	
	Class 5	100		100		100	
V4	%OW <= 1.5ft	5	0.16	5	0.16	3	0.14
V5	Salinity (ppt)	4.3	1.00	4.3	1.00	4.3	1.00
V6	Access Value	1.0000	1.00	1.0000	1.00	1.0000	1.00
	Emergent Marsh HSI =		0.28	EM HSI =	0.28	EM HSI =	0.27
	Open Water HS	SI =	0.69	OW HSI =	0.69	OW HSI =	0.69

Project: East Delacroix Marsh Creation and Terracing - Terrace Area FWOP

Project Area:

191

TVVOF	_						
		TY		TY		TY	
Variable		Value	SI	Value	SI	Value	SI
V1	% Emergent						
V2	% Aquatic						
V3	Interspersion	%		%		%	
	Class 1						
	Class 2						
	Class 3						
	Class 4						
	Class 5						
V4	%OW <= 1.5ft						
V5	Salinity (ppt)						
V6	Access Value						
		EM HSI =		EM HSI =		EM HSI =	
		OW HSI =		OW HSI =		OW HSI =	

Project: East Delacroix Marsh Creation and Terracing - Terrace Area

Project Area:

191

FWOP	_						
		TY		TY		TY	
Variable		Value	SI	Value	SI	Value	SI
V1	% Emergent						
V2	% Aquatic						
V3	Interspersion	%		%		%	
	Class 1						
	Class 2						
	Class 3						
	Class 4						
	Class 5						
V4	%OW <= 1.5ft						
V5	Salinity (ppt)						
V6	Access Value						
		EM HSI =		EM HSI =		EM HSI =	
		OW HSI =		OW HSI =		OW HSI =	

WETLAND VALUE ASSESSMENT COMMUNITY MODEL Brackish Marsh

Project: East Delacroix Marsh Creation and Terracing - Terrace Area Project Area: 191

Condition: Future With Project

		TY	0	TY	1	TY	3
Variable		Value	SI	Value	SI	Value	SI
V1	% Emergent	3	0.13	4	0.14	7	0.16
V2	% Aquatic	60	0.64	10	0.19	70	0.73
V3	Interspersion	%		%		%	
	Class 1	0	0.10	0	0.40	0	0.40
	Class 2	0		0		0	
	Class 3	0		100		100	
	Class 4	0		0		0	
	Class 5	100		0		0	
V4	%OW <= 1.5ft	5	0.16	7	0.19	7	0.19
V5	Salinity (ppt)	4.3	1.00	4.3	1.00	4.3	1.00
V6	Access Value	1.0000	1.00	1.0000	1.00	1.0000	1.00
	Emergent Marsh HSI =		0.28	EM HSI =	0.32	EM HSI =	0.35
	Open Water HS	SI =	0.69	OW HSI =	0.40	OW HSI =	0.76

Project: **East Delacroix Marsh Creation and Terracing - Terrace Area** Project Area: 191 FWP

IVVE	-						
		TY	20	TY		TY	
Variable		Value	SI	Value	SI	Value	SI
V1	% Emergent	6	0.15				
V2	% Aquatic	70	0.73				
V3	Interspersion	%		%		%	
	Class 1	0	0.40				
	Class 2	0					
	Class 3	100					
	Class 4	0					
	Class 5	0					
V4	%OW <= 1.5ft	5	0.16				
V5	Salinity (ppt)	4.3	1.00				
V6	Access Value	1.0000	1.00				
		EM HSI =	0.34	EM HSI =		EM HSI =	
		OW HSI =	0.76	OW HSI =		OW HSI =	

Project: East Delacroix Marsh Creation and Terracing - Terrace Area Project Area: 191

FWP	a i			(-		1	
		TY		TY		TY	
Variable		Value	SI	Value	SI	Value	SI
V1	% Emergent						
V2	% Aquatic						
V3	Interspersion	%		%		%	
	Class 1						
	Class 2						
	Class 3						
	Class 4						
	Class 5						
V4	%OW <= 1.5ft						
V5	Salinity (ppt)						
V6	Access Value						
	_	EM HSI =	_	EM HSI =		EM HSI =	
		OW HSI =	_	OW HSI =		OW HSI =	

AAHU CALCULATION - EMERGENT MARSH
Project: East Delacroix Marsh Creation and Terracing - Terrace Area

Future With	Future Without Project		Total	Cummulative
TY	Marsh Acres	x HSI	HUs	HUs
0	5	0.28	1.41	
1	5	0.28	1.41	1.41
20	4	0.27	1.09	23.69
Max TY=	20		AAHUs =	1.25

Future With	Future With Project		Total	Cummulative
TY	Marsh Acres	x HSI	HUs	HUs
0	5	0.28	1.41	
1	7	0.32	2.26	1.82
3	13	0.35	4.53	6.74
20	11	0.34	3.74	70.22
Max TY=	20		AAHUs	3.94

NET CHANGE IN AAHUS DUE TO PROJECT	
A. Future With Project Emergent Marsh AAHUs =	3.94
B. Future Without Project Emergent Marsh AAHUs =	1.25
Net Change (FWP - FWOP) =	2.68

AAHU CALCULATION - OPEN WATER

Project: East Delacroix Marsh Creation and Terracing - Terrace Area

Future With	Future Without Project		Total	Cummulative	
TY	TY Water Acres		HUs	HUs	
0	186	0.69	128.10		
1	186	0.69	128.10	128.10	
20	187	0.69	128.43	2437.09	
Max TY=	20		AAHUs =	128.26	

Future With	Project		Total	Cummulative	
TY	TY Water Acres		HUs	HUs	
0	186	0.69	128.10		
1	178	0.40	72.08	99.71	
3	178	0.76	135.59	207.66	
20	180	0.76	136.77	2315.02	
Max TY=	20		AAHUs	131.12	

NET CHANGE IN AAHUS DUE TO PROJECT	
A. Future With Project Open Water AAHUs =	131.12
B. Future Without Project Open Water AAHUs =	128.26
Net Change (FWP - FWOP) =	2.86

TOTAL BENEFITS IN AAHUS DUE TO PROJECT					
A. Emergent Marsh Habitat Net AAHUs =	2.68				
B. Open Water Habitat Net AAHUs =	2.86				
Net Benefits= (2.6xEMAAHUs+OWAAHUs)/3.6	2.73				

WETLAND VALUE ASSESSMENT

Benefits Summary Sheet

Fresh/Intermediate Marsh
Project: Breton Landbridge Marsh Creation - West

TOTAL BENEFITS IN AAHUS DUE TO PROJECT

Area AAHUs
Fresh/Intermediate Marsh - Marsh Creation 106.65

TOTAL BENEFITS = 107 AAHUS

WETLAND VALUE ASSESSMENT COMMUNITY MODEL

Fresh/Intermediate Marsh

Project:	Breton Landbridge Marsh Creation - West

Project Area: 423 % Fresh 0 % Intermediate 100

Condition:	Future	Without	Project
Condition.	I ULUIC	vvitilout	FIUICCE

		TY	0	TY	1	TY	20
Variable		Value	SI	Value	SI	Value	SI
V1	% Emergent	23	0.31	23	0.31	16	0.24
V2	% Aquatic	55	0.60	55	0.60	55	0.60
V3	Interspersion	%		%		%	
	Class 1	0	0.20	0	0.20	0	0.20
	Class 2	0		0		0	
	Class 3	0		0		0	
	Class 4	100		100		100	
	Class 5	0		0		0	
V4	%OW <= 1.5ft	29	0.43	29	0.43	16	0.28
V5	Salinity (ppt)						
	fresh		1.00		1.00		1.00
	intermediate	2.3		2.3		2.3	
V6	Access Value						
	fresh		1.00		1.00		1.00
	intermediate	1.0000		1.0000		1.0000	
	Emergent Ma	rsh HSI =	0.42	EM HSI =	0.42	EM HSI =	0.37
	Open Water I	HSI =	0.65	OW HSI =	0.65	OW HSI =	0.64

Project: Breton Landbridge Marsh Creation - West

FWOP	-						
		TY		TY		TY	
Variable		Value	SI	Value	SI	Value	SI
V1	% Emergent						
V2	% Aquatic						
V3	Interspersion	%		%		%	
	Class 1						
	Class 2						
	Class 3						
	Class 4						
	Class 5						
V4	%OW <= 1.5ft						
V5	Salinity (ppt)						
	fresh						
	intermediate						
V6	Access Value						
	fresh						
	intermediate						
		EM HSI =		EM HSI =		EM HSI =	
		OW HSI =		OW HSI =		OW HSI =	

Project: **Breton Landbridge Marsh Creation - West** FWOP

•		TY		TY		TY	
Variable		Value	SI	Value	SI	Value	SI
V1	% Emergent						
V2	% Aquatic						
V3	Interspersion	%		%		%	
	Class 1						
	Class 2						
	Class 3						
	Class 4						
	Class 5						
V4	%OW <= 1.5ft						
V5	Salinity (ppt)						
	fresh						
	intermediate						
V6	Access Value						
	fresh						
	intermediate						
		EM HSI =		EM HSI =		EM HSI =	
		OW HSI =		OW HSI =		OW HSI =	

WETLAND VALUE ASSESSMENT COMMUNITY MODEL

Fresh/Intermediate Marsh

Project: Breton Landbridge Marsh Creation - West

 Project Area:
 423

 % Fresh
 0

 % Intermediate
 100

Condition:		

		TY	0	TY	1	TY	3
Variable		Value	SI	Value	SI	Value	SI
V1	% Emergent	23	0.31	19	0.27	42	0.48
V2	% Aquatic	55	0.60	0	0.10	60	0.64
V3	Interspersion	%		%		%	
	Class 1	0	0.20	0	0.10	0	0.40
	Class 2	0		0		0	
	Class 3	0		0		100	
	Class 4	100		0		0	
	Class 5	0		100		0	
V4	%OW <= 1.5ft	29	0.43	100	0.60	100	0.60
V5	Salinity (ppt)						
	fresh		1.00		1.00		1.00
	intermediate	2.3		2.3		2.3	
V6	Access Value						
	fresh		1.00		0.20		0.97
	intermediate	1		0.0001		0.9600	
	Emergent Mar	rsh HSI =	0.42	EM HSI =	0.32	EM HSI =	0.57
	Open Water I	HSI =	0.65	OW HSI =	0.22	OW HSI =	0.70

Project: Breton Landbridge Marsh Creation - West

FWP

		TY	5	TY	10	TY	20
Variable		Value	SI	Value	SI	Value	SI
V1	% Emergent	87	0.88	80	0.82	80	0.82
V2	% Aquatic	90	0.91	90	0.91	90	0.91
V3	Interspersion	%		%		%	
	Class 1	100	1.00	100	1.00	100	1.00
	Class 2	0		0		0	
	Class 3	0		0		0	
	Class 4	0		0		0	
	Class 5	0		0		0	
V4	%OW <= 1.5ft	100	0.60	90	1.00	80	1.00
V5	Salinity (ppt)						
	fresh		1.00		1.00		1.00
	intermediate	2.3		2.3		2.3	
V6	Access Value						
	fresh		0.97		1.00		1.00
	intermediate	0.9600		1.0000		1.0000	
		EM HSI =	0.92	EM HSI =	0.88	EM HSI =	0.88
		OW HSI =	0.91	OW HSI =	0.95	OW HSI =	0.95

Project: Breton Landbridge Marsh Creation - West

FWP

		TY		TY		TY	
Variable		Value	SI	Value	SI	Value	SI
V1	% Emergent						
V2	% Aquatic						
V3	Interspersion	%		%		%	
	Class 1						
	Class 2						
	Class 3						
	Class 4						
	Class 5						
V4	%OW <= 1.5ft						
V5	Salinity (ppt)						
	fresh						
	intermediate						
V6	Access Value						
	fresh						
	intermediate						
		EM HSI =		EM HSI =		EM HSI =	
		OW HSI =		OW HSI =		OW HSI =	

AAHU CALCULATION - EMERGENT MARSH

Project: Breton Landbridge Marsh Creation - West

Future With	out Project		Total	Cummulative
TY	Marsh Acres	x HSI	HUs	HUs
0	97	0.42	41.13	
1	96	0.42	40.71	40.92
20	68	0.37	25.39	623.47
Max=	20		AAHUs =	33.22

Future With	Project		Total	Cummulative
TY	Marsh Acres	x HSI	HUs	HUs
0	97	0.42	41.13	
1	79	0.32	25.49	33.01
3	179	0.57	102.70	119.81
5	370	0.92	340.25	420.93
10	372	0.88	327.90	1670.44
20	340	0.88	299.69	3137.95
Max=	20		AAHUs	269.11

NET CHANGE IN AAHUS DUE TO PROJECT	
A. Future With Project Emergent Marsh AAHUs =	269.11
B. Future Without Project Emergent Marsh AAHUs =	33.22
Net Change (FWP - FWOP) =	235.89

AAHU CALCULATION - OPEN WATER

Project: Breton Landbridge Marsh Creation - West

Future With	out Project		Total	Cummulative
TY	Water Acres	x HSI	HUs	HUs
0	326	0.65	211.05	
1	327	0.65	211.69	211.37
20	355	0.64	225.97	4158.81
Max=	20		AAHUs =	218.51

Future With	n Project		Total	Cummulative
TY	Water Acres	x HSI	HUs	HUs
0	326	0.65	211.05	
1	22	0.22	4.81	86.19
3	46	0.70	32.21	33.16
5	53	0.91	48.30	80.02
10	51	0.95	48.29	241.55
20	83	0.95	78.59	634.41
Max=	20		AAHUs	53.77

NET CHANGE IN AAHUS DUE TO PROJECT	
A. Future With Project Open Water AAHUs =	53.77
B. Future Without Project Open Water AAHUs =	218.51
Net Change (FWP - FWOP) =	-164.74

TOTAL BENEFITS IN AAHUS DUE TO PROJECT						
A. Emergent Marsh Habitat Net AAHUs =	235.89					
B. Open Water Habitat Net AAHUs =	-164.74					
Net Benefits=(2.1xEMAAHUs+OWAAHUs)/3.1	106.65					

WETLAND VALUE ASSESSMENT

Benefits Summary Sheet

Coastal Chenier/Ridge and Brackish Marsh Project: Bayou Terre aux Boeufs Ridge Restoration and Marsh Creation

TOTAL BENEFITS IN AAHUS DUE TO PROJECT

Area	AAHUs
Coastal Chenier/Ridge - Ridge Restoration	13.3
Area	AAHUs
Brackish Marsh - Marsh Creation	141.17

TOTAL BENEFITS = 154 AAHUS

WETLAND VALUE ASSESSMENT COMMUNITY MODEL Coastal Chenier/Ridge

Project: Bayou Terre aux Boeufs Ridge Restoration and Marsh Creation Project Area: 22

Condition: Future Without Project No ridge habitat under FWOP

		TY	0	TY	1	TY	20
Variable		Class/Value	SI	Class/Value	SI	Class/Value	SI
V1	Tree Canopy Cover (%)	0	0.10	0	0.10	0	0.10
V2	Shrub/Midstory Cover (%)	0	0.10	0	0.10	0	0.10
V3	Species Diversity	0	0.10	0	0.10	0	0.10
		HSI =	0.10	HSI =	0.10	HSI =	0.10

 $\label{eq:project:Bayou Terre} \mbox{ aux Boeufs Ridge Restoration and Marsh Creation FWOP}$

Project Area: 2

22

		TY		TY		TY	
Variable		Class/Value	SI	Class/Value	SI	Class/Value	SI
V1	Tree Canopy Cover (%)						
V2	Shrub/Midstory Cover (%)						
V3	Species Diversity						
		HSI =		HSI =		HSI =	

Project: Bayou Terre aux Boeufs Ridge Restoration and Marsh Creation

Project Area:

22

FWOP

		TY		TY		TY	
Variable		Class/Value	SI	Class/Value	SI	Class/Value	SI
V1	Tree Canopy Cover (%)						
V2	Shrub/Midstory Cover (%)						
V3	Species Diversity						
		HSI =		HSI =		HSI =	

WETLAND VALUE ASSESSMENT COMMUNITY MODEL Coastal Chenier/Ridge

Project: Bayou Terre aux Boeufs Ridge Restoration and Marsh Creation Project Area: 22

Condition: Future With Project

		TY	0	TY	1	TY	3
Variable		Class/Value	SI	Class/Value	SI	Class/Value	SI
V1	Tree Canopy Cover (%)	0	0.10	0	0.10	0	0.10
V2	Shrub/Midstory Cover (%)	0	0.10	0	0.10	10	0.36
V3	Species Diversity	0	0.10	0	0.10	6	0.80
		HSI =	0.10	HSI =	0.10	HSI =	0.31

Project: Bayou Terre aux Boeufs Ridge Restoration and Marsh Creation Project Area: 22

FWP

		TY	7	TY	12	TY	15
Variable		Class/Value	SI	Class/Value	SI	Class/Value	SI
V1	Tree Canopy Cover (%)	5	0.17	25	0.45	40	0.66
V2	Shrub/Midstory Cover (%)	35	1.00	50	1.00	50	1.00
V3	Species Diversity	8	0.90	8	0.90	10	1.00
		HSI =	0.53	HSI =	0.74	HSI =	0.87

Project: Bayou Terre aux Boeufs Ridge Restoration and Marsh Creation Project Area: 22 FWP

		TY 20		TY		TY	
Variable		Class/Value	SI	Class/Value	SI	Class/Value	SI
V1	Tree Canopy Cover (%)	40	0.66				
V2	Shrub/Midstory Cover (%)	50	1.00				
V3	Species Diversity	10	1.00				
		HSI =	0.87	HSI =		HSI =	

AAHU CALCULATION

Project: Bayou Terre aux Boeufs Ridge Restoration and Marsh Creation

Future With	out Project		Total	Cummulative
TY	Acres	x HSI	HUs	HUs
0	0	0.10	0.00	
1	0	0.10	0.00	0.00
20	0	0.10	0.00	0.00
Max TY =	20		Total	
			CHUs =	0.00
			AAHUs =	0.00

Future With	Project		Total	Cummulative
TY	Acres	x HSI	HUs	HUs
0	0	0.10	0.00	
1	22	0.10	2.20	1.10
3	22	0.31	6.74	8.94
7	22	0.53	11.77	37.02
12	22	0.74	16.28	70.11
15	22	0.87	19.15	53.15
20	22	0.87	19.15	95.77
Max TY =	20	Total		
			CHUs =	266.09
			AAHUs =	13.30

NET CHANGE IN AAHUS DUE TO PROJECT	
A. Future With Project AAHUs =	13.30
B. Future Without Project AAHUs =	0.00
Net Change (FWP - FWOP) =	13.30

WETLAND VALUE ASSESSMENT COMMUNITY MODEL **Brackish Marsh**

Project: Bayou Terre aux Boeufs Ridge Restoration and Marsh Creation Project Area: 535

Condition: Future Without Project

		TY	0	TY	1	TY	20
Variable		Value	SI	Value	SI	Value	SI
V1	% Emergent	49	0.54	49	0.54	43	0.49
V2	% Aquatic	56	0.60	56	0.60	56	0.60
V3	Interspersion	%		%		%	
	Class 1	0	0.40	0	0.40	0	0.40
	Class 2	0		0		0	
	Class 3	100		100		100	
	Class 4	0		0		0	
	Class 5	0		0		0	
V4	%OW <= 1.5ft	10	0.23	10	0.23	2	0.13
V5	Salinity (ppt)	4.3	1.00	4.3	1.00	4.3	1.00
V6	Access Value	1.0000	1.00	1.0000	1.00	1.0000	1.00
	Emergent Marsh HSI =		0.64	EM HSI =	0.64	EM HSI =	0.60
	Open Water HSI =		0.70	OW HSI =	0.70	OW HSI =	0.69

Project: Bayou Terre aux Boeufs Ridge Restoration and Marsh Creation FWOP

Project Area:

535

FWOP	Ī i	TV		TV		TV	
		TY		TY		TY	
Variable		Value	SI	Value	SI	Value	SI
V1	% Emergent						
V2	% Aquatic						
V3	Interspersion	%		%		%	
	Class 1						
	Class 2						
	Class 3						
	Class 4						
	Class 5						
V4	%OW <= 1.5ft						
V5	Salinity (ppt)						
V6	Access Value						
		EM HSI =		EM HSI =		EM HSI =	
		OW HSI =		OW HSI =		OW HSI =	

Project: Bayou Terre aux Boeufs Ridge Restoration and Marsh Creation

Project Area:

535

FWOP							
		TY		TY		TY	
Variable		Value	SI	Value	SI	Value	SI
V1	% Emergent						
V2	% Aquatic						
V3	Interspersion	%		%		%	
	Class 1						
	Class 2						
	Class 3						
	Class 4						
	Class 5						
V4	%OW <= 1.5ft						
V5	Salinity (ppt)						
V6	Access Value						
		EM HSI =		EM HSI =		EM HSI =	
		OW HSI =		OW HSI =		OW HSI =	

WETLAND VALUE ASSESSMENT COMMUNITY MODEL Brackish Marsh

Project: Bayou Terre aux Boeufs Ridge Restoration and Marsh Creation Project Area: 535

Condition: Future With Project

		TY	0	TY	1	TY	3
Variable		Value	SI	Value	SI	Value	SI
V1	% Emergent	49	0.54	29	0.36	62	0.66
V2	% Aquatic	56	0.60	0	0.10	28	0.35
V3	Interspersion	%		%		%	
	Class 1	0	0.40	0	0.10	0	0.40
	Class 2	0		0		0	
	Class 3	100		0		100	
	Class 4	0		0		0	
	Class 5	0		100		0	
V4	%OW <= 1.5ft	10	0.23	100	0.60	100	0.60
V5	Salinity (ppt)	4.3	1.00	4.3	1.00	4.3	1.00
V6	Access Value	1.0000	1.00	0.0001	0.10	1.0000	1.00
	Emergent Marsh HSI =		0.64	EM HSI =	0.33	EM HSI =	0.72
	Open Water HSI =		0.70	OW HSI =	0.20	OW HSI =	0.56

Project: Bayou Terre aux Boeufs Ridge Restoration and Marsh Creation

Project Area: 535

FWP

FVVP	_						
		TY	5	TY	9	TY	20
Variable		Value	SI	Value	SI	Value	SI
V1	% Emergent	99	0.99	97	0.97	94	0.95
V2	% Aquatic	56	0.60	56	0.60	56	0.60
V3	Interspersion	%		%		%	
	Class 1	0	0.40	100	1.00	100	1.00
	Class 2	0		0		0	
	Class 3	100		0		0	
	Class 4	0		0		0	
	Class 5	0		0		0	
V4	%OW <= 1.5ft	100	0.60	100	0.60	90	0.80
V5	Salinity (ppt)	4.3	1.00	4.3	1.00	4.3	1.00
V6	Access Value	1.0000	1.00	1.0000	1.00	1.0000	1.00
		EM HSI =	0.93	EM HSI =	0.98	EM HSI =	0.97
		OW HSI =	0.72	OW HSI =	0.77	OW HSI =	0.78

Project: Bayou Terre aux Boeufs Ridge Restoration and Marsh Creation

Project Area: 535

FWP

FWP	n 1			(n			
		TY		TY		TY	
Variable		Value	SI	Value	SI	Value	SI
V1	% Emergent						
V2	% Aquatic						
V3	Interspersion	%		%		%	
	Class 1						
	Class 2						
	Class 3						
	Class 4						
	Class 5						
V4	%OW <= 1.5ft						
V5	Salinity (ppt)						
V6	Access Value						
		EM HSI =	_	EM HSI =		EM HSI =	
		OW HSI =	_	OW HSI =		OW HSI =	

AAHU CALCULATION - EMERGENT MARSH

Project: Bayou Terre aux Boeufs Ridge Restoration and Marsh Creation

Future Without Project			Total	Cummulative
TY	Marsh Acres	x HSI	HUs	HUs
0	275	0.64	176.12	
1	273	0.64	174.84	175.48
20	242	0.60	145.86	3042.95
Max TY=	20		AAHUs =	160.92

Future With Project			Total	Cummulative
TY	Marsh Acres	x HSI	HUs	HUs
0	275	0.64	176.12	
1	153	0.33	50.65	107.09
3	333	0.72	239.50	266.86
5	528	0.93	489.95	715.89
9	522	0.98	513.54	2007.21
20	503	0.97	486.65	5500.46
Max TY=	20		AAHUs	429.88

NET CHANGE IN AAHUS DUE TO PROJECT	
A. Future With Project Emergent Marsh AAHUs =	429.88
B. Future Without Project Emergent Marsh AAHUs =	160.92
Net Change (FWP - FWOP) =	268.95

AAHU CALCULATION - OPEN WATER

Project: Bayou Terre aux Boeufs Ridge Restoration and Marsh Creation

Future Without Project			Total	Cummulative
TY	Water Acres	x HSI	HUs	HUs
0	282	0.70	196.10	
1	284	0.70	197.49	196.79
20	315	0.69	216.65	3935.03
Max TY=	20		AAHUs =	206.59

Future With	Project		Total	Cummulative
TY	Water Acres	x HSI	HUs	HUs
0	282	0.70	196.10	
1	0	0.20	0.00	74.94
3	3	0.56	1.69	1.33
5	7	0.72	5.06	6.54
9	14	0.77	10.74	31.40
20	32	0.78	25.03	196.26
Max TY=	20		AAHUs	15.52

NET CHANGE IN AAHUS DUE TO PROJECT	
A. Future With Project Open Water AAHUs =	15.52
B. Future Without Project Open Water AAHUs =	206.59
Net Change (FWP - FWOP) =	-191.07

TOTAL BENEFITS IN AAHUS DUE TO PROJECT						
A. Emergent Marsh Habitat Net AAHUs =	268.95					
B. Open Water Habitat Net AAHUs =	-191.07					
Net Benefits= (2.6xEMAAHUs+OWAAHUs)/3.6	141.17					

WETLAND VALUE ASSESSMENT

Benefits Summary Sheet

Coastal Chenier/Ridge and Saline Marsh Project: Grand Bayou Ridge and Marsh Restoration

TOTAL BENEFITS IN AAHUS DUE TO PROJECT

Area	AAHUs
Coastal Chenier/Ridge - Ridge Restoration	7.96
Area	AAHUs
Saline Marsh - Marsh Creation	153.85
Area	AAHUs
Saline Marsh - Terrace Area	9.17

TOTAL BENEFITS = 171 AAHUS

WETLAND VALUE ASSESSMENT COMMUNITY MODEL Coastal Chenier/Ridge

Project: Grand Bayou Ridge and Marsh Restoration Project Area: 13

Condition: Future Without Project - No Ridge Habitat

		TY	0	TY	1	TY	20
Variable		Class/Value	SI	Class/Value	SI	Class/Value	SI
V1	Tree Canopy Cover (%)	0	0.10	0	0.10	0	0.10
V2	Shrub/Midstory Cover (%)	0	0.10	0	0.10	0	0.10
V3	Species Diversity	0	0.10	0	0.10	0	0.10
		HSI =	0.10	HSI =	0.10	HSI =	0.10

Project: Grand Bayou Ridge and Marsh Restoration

Project Area: 13

FWOP

		TY		TY		TY	
Variable		Class/Value	SI	Class/Value	SI	Class/Value	SI
V1	Tree Canopy Cover (%)						
V2	Shrub/Midstory Cover (%)						
V3	Species Diversity						
		HSI =		HSI =		HSI =	

Project: Grand Bayou Ridge and Marsh Restoration

Project Area: 13

FWOP

		TY		TY		TY	
Variable		Class/Value	SI	Class/Value	SI	Class/Value	SI
V1	Tree Canopy Cover (%)						
V2	Shrub/Midstory Cover (%)						
V3	Species Diversity						
		HSI =		HSI =		HSI =	

WETLAND VALUE ASSESSMENT COMMUNITY MODEL Coastal Chenier/Ridge

Project: Grand Bayou Ridge and Marsh Restoration Project Area: 13

Condition: Future With Project

		TY	0	TY	1	TY	3
Variable		Class/Value	SI	Class/Value	SI	Class/Value	SI
V1	Tree Canopy Cover (%)	0	0.10	0	0.10	0	0.10
V2	Shrub/Midstory Cover (%)	0	0.10	0	0.10	10	0.36
V3	Species Diversity	0	0.10	0	0.10	6	0.80
•		HSI =	0.10	HSI =	0.10	HSI =	0.31

Project: Grand Bayou Ridge and Marsh Restoration

Project Area: 13

FWP

		TY	7	TY	12	TY	15
Variable		Class/Value	SI	Class/Value	SI	Class/Value	SI
V1	Tree Canopy Cover (%)	5	0.17	25	0.45	40	0.66
V2	Shrub/Midstory Cover (%)	35	1.00	50	1.00	50	1.00
V3	Species Diversity	8	0.90	8	0.90	10	1.00
		HSI =	0.53	HSI =	0.74	HSI =	0.87

Project: Grand Bayou Ridge and Marsh Restoration

Project Area: 13

FWP

		TY	20	TY		TY	
Variable		Class/Value	SI	Class/Value	SI	Class/Value	SI
V1	Tree Canopy Cover (%)	50	0.80				
V2	Shrub/Midstory Cover (%)	50	1.00				
V3	Species Diversity	10	1.00				
		HSI =	0.93	HSI =		HSI =	

AAHU CALCULATION

Project: Grand Bayou Ridge and Marsh Restoration

Future Witho	out Project		Total	Cummulative
TY	Acres	x HSI	HUs	HUs
0	0	0.10	0.00	
1	0	0.10	0.00	0.00
20	0	0.10	0.00	0.00
Max TY =	20		Total	
			CHUs =	0.00
			AAHUs =	0.00

Future With	Project		Total	Cummulative
TY	Acres	x HSI	HUs	HUs
0	0	0.10	0.00	
1	13	0.10	1.30	0.65
3	13	0.31	3.98	5.28
7	13	0.53	6.95	21.88
12	13	0.74	9.62	41.43
15	13	0.87	11.32	31.41
20	13	0.93	12.07	58.47
Max TY =	20		Total	_
			CHUs =	159.11
			AAHUs =	7.96

NET CHANGE IN AAHUS DUE TO PROJECT	
A. Future With Project AAHUs =	7.96
B. Future Without Project AAHUs =	0.00
Net Change (FWP - FWOP) =	7.96

WETLAND VALUE ASSESSMENT COMMUNITY MODEL Saline Marsh

Project: Grand Bayou Ridge and Marsh Restoration - Marsh Creation Area Project Area: 356

Condition: Future Without Project

		TY	0	TY	1	TY	20
Variable		Value	SI	Value	SI	Value	SI
V1	% Emergent	4	0.14	4	0.14	3	0.13
V2	% Aquatic	1	0.31	1	0.31	1	0.31
V3	Interspersion	%		%		%	
	Class 1	0	0.10	0	0.10	0	0.10
	Class 2	0		0		0	
	Class 3	0		0		0	
	Class 4	0		0		0	
	Class 5	100		100		100	
V4	%OW <= 1.5ft	6	0.18	6	0.18	1	0.11
V5	Salinity (ppt)	9.3	1.00	9.3	1.00	9.3	1.00
V6	Access Value	1.0000	1.00	1.0000	1.00	1.0000	1.00
	Emergent Mars	h HSI =	0.30	EM HSI =	0.30	EM HSI =	0.29
	Open Water HS	=	0.65	OW HSI =	0.65	OW HSI =	0.64

Project: Grand Bayou Ridge and Marsh Restoration - Marsh Creation Area Project Area: 356 FWOP

		TY		TY		TY	
Variable		Value	SI	Value	SI	Value	SI
V1	% Emergent						
V2	% Aquatic						
V3	Interspersion	%		%		%	
	Class 1						
	Class 2						
	Class 3						
	Class 4						
	Class 5						
V4	%OW <= 1.5ft						
V5	Salinity (ppt)						
V6	Access Value						
		EM HSI =		EM HSI =		EM HSI =	_
		OW HSI =		OW HSI =		OW HSI =	

Project: Grand Bayou Ridge and Marsh Restoration - Marsh Creation Area Project Area: 356

FWOP]	TY		TY		TY	
Variable		Value	SI	Value	SI	Value	SI
V1	% Emergent						
V2	% Aquatic						
V3	Interspersion	%		%		%	
	Class 1						
	Class 2						
	Class 3						
	Class 4						
	Class 5						
V4	%OW <= 1.5ft						
V5	Salinity (ppt)						
V6	Access Value						
•		EM HSI =		EM HSI =		EM HSI =	
		OW HSI =		OW HSI =		OW HSI =	

WETLAND VALUE ASSESSMENT COMMUNITY MODEL Saline Marsh

Project: Grand Bayou Ridge and Marsh Restoration - Marsh Creation Area Project Area: 356

Condition: Future With Project

		TY	0	TY	1	TY	3
Variable		Value	SI	Value	SI	Value	SI
V1	% Emergent	4	0.14	11	0.20	32	0.39
V2	% Aquatic	1	0.31	0	0.30	15	0.41
V3	Interspersion	%		%		%	
	Class 1	0	0.10	0	0.10	0	0.40
	Class 2	0		0		0	
	Class 3	0		0		100	
	Class 4	0		0		0	
	Class 5	100		100		0	
V4	%OW <= 1.5ft	6	0.18	100	0.50	100	0.50
V5	Salinity (ppt)	9.3	1.00	9.3	1.00	9.3	1.00
V6	Access Value	1.0000	1.00	0.0001	0.10	1.0000	1.00
	Emergent Marsh HSI =		0.30	EM HSI =	0.25	EM HSI =	0.54
	Open Water HS	=	0.65	OW HSI =	0.23	OW HSI =	0.74

Project: Grand Bayou Ridge and Marsh Restoration - Marsh Creation Area Project Area: 356 FWP

		TY	5	TY	20	TY	
Variable		Value	SI	Value	SI	Value	SI
V1	% Emergent	97	0.97	89	0.90		
V2	% Aquatic	30	0.51	30	0.51		
V3	Interspersion	%		%		%	
	Class 1	100	1.00	100	1.00		
	Class 2	0		0			
	Class 3	0		0			
	Class 4	0		0			
	Class 5	0		0			
V4	%OW <= 1.5ft	100	0.50	80	1.00		
V5	Salinity (ppt)	9.3	1.00	9.3	1.00		
V6	Access Value	1.0000	1.00	1.0000	1.00		
		EM HSI =	0.98	EM HSI =	0.94	EM HSI =	
		OW HSI =	0.83	OW HSI =	0.86	OW HSI =	

Project: Grand Bayou Ridge and Marsh Restoration - Marsh Creation Area Project Area: 356

FWP	7			Îr.		ir .	
		TY		TY		TY	
Variable		Value	SI	Value	SI	Value	SI
V1	% Emergent						
V2	% Aquatic						
V3	Interspersion	%		%		%	
	Class 1						
	Class 2						
	Class 3						
	Class 4						
	Class 5						
V4	%OW <= 1.5ft						
V5	Salinity (ppt)						
V6	Access Value						
•		EM HSI =		EM HSI =		EM HSI =	
		OW HSI =		OW HSI =		OW HSI =	

AAHU CALCULATION - EMERGENT MARSH

Project: Grand Bayou Ridge and Marsh Restoration - Marsh Creation Area

Future Without Project			Total	Cummulative
TY	Marsh Acres	x HSI	HUs	HUs
0	16	0.30	4.74	
1	16	0.30	4.74	4.74
20	13	0.29	3.74	80.50
Max=	20		AAHUs =	4.26

Future With Project			Total	Cummulative
TY	Marsh Acres	x HSI	HUs	HUs
0	16	0.30	4.74	
1	40	0.25	10.10	7.60
3	113	0.54	60.79	63.94
5	346	0.98	340.53	366.66
20	318	0.94	299.40	4796.49
Max=	20		AAHUs	261.73

NET CHANGE IN AAHUS DUE TO PROJECT	
A. Future With Project Emergent Marsh AAHUs =	261.73
B. Future Without Project Emergent Marsh AAHUs =	4.26
Net Change (FWP - FWOP) =	257.47

AAHU CALCULATION - OPEN WATER

Project: Grand Bayou Ridge and Marsh Restoration - Marsh Creation Area

Future Without Project			Total	Cummulative
TY	Water Acres	x HSI	HUs	HUs
0	353	0.65	229.32	
1	353	0.65	229.32	229.32
20	356	0.64	229.58	4359.61
Max=	20		AAHUs =	229.45

Future With	Future With Project		Total	Cummulative
TY	Water Acres	x HSI	HUs	HUs
0	353	0.65	229.32	
1	2	0.23	0.45	90.05
3	6	0.74	4.45	4.21
5	10	0.83	8.27	12.60
20	38	0.86	32.83	305.63
Max=	20		AAHUs	20.62

NET CHANGE IN AAHUS DUE TO PROJECT	
A. Future With Project Open Water AAHUs =	20.62
B. Future Without Project Open Water AAHUs =	229.45
Net Change (FWP - FWOP) =	-208.82

TOTAL BENEFITS IN AAHUS DUE TO PROJECT					
A. Emergent Marsh Habitat Net AAHUs =	257.47				
B. Open Water Habitat Net AAHUs =	-208.82				
Net Benefits= (3.5xEMAAHUs+OWAAHUs)/4.5	153.85				

WETLAND VALUE ASSESSMENT COMMUNITY MODEL Saline Marsh

Project: Grand Bayou Ridge and Marsh Restoration - Terrace Area Project Area: 350

Condition: Future Without Project

		TY	0	TY	1	TY	20
Variable		Value	SI	Value	SI	Value	SI
V1	% Emergent	4	0.14	4	0.14	3	0.13
V2	% Aquatic	2	0.31	2	0.31	2	0.31
V3	Interspersion	%		%		%	
	Class 1	0	0.10	0	0.10	0	0.10
	Class 2	0		0		0	
	Class 3	0		0		0	
	Class 4	0		0		0	
	Class 5	100		100		100	
V4	%OW <= 1.5ft	9	0.22	9	0.22	1	0.11
V5	Salinity (ppt)	9.3	1.00	9.3	1.00	9.3	1.00
V6	Access Value	1.0000	1.00	1.0000	1.00	1.0000	1.00
	Emergent Mars	h HSI =	0.30	EM HSI =	0.30	EM HSI =	0.29
	Open Water HS	=	0.66	OW HSI =	0.66	OW HSI =	0.65

Project: Grand Bayou Ridge and Marsh Restoration - Terrace Area Project Area: 350

FWOP	_						
		TY		TY		TY	
Variable		Value	SI	Value	SI	Value	SI
V1	% Emergent						
V2	% Aquatic						
V3	Interspersion	%		%		%	
	Class 1						
	Class 2						
	Class 3						
	Class 4						
	Class 5						
V4	%OW <= 1.5ft						
V5	Salinity (ppt)						
V6	Access Value						
		EM HSI =		EM HSI =		EM HSI =	
		OW HSI =		OW HSI =		OW HSI =	

Project: Grand Bayou Ridge and Marsh Restoration - Terrace Area Project Area: 350

		TY		TY		TY	
Variable		Value	SI	Value	SI	Value	SI
V1	% Emergent						
V2	% Aquatic						
V3	Interspersion	%		%		%	
	Class 1						
	Class 2						
	Class 3						
	Class 4						
	Class 5						
V4	%OW <= 1.5ft						
V5	Salinity (ppt)						
V6	Access Value						
	-	EM HSI =		EM HSI =		EM HSI =	
		OW HSI =		OW HSI =		OW HSI =	

WETLAND VALUE ASSESSMENT COMMUNITY MODEL Saline Marsh

Project: Grand Bayou Ridge and Marsh Restoration - Terrace Area Project Area: 350

Condition: Future With Project

		TY	0	TY	1	TY	3
Variable		Value	SI	Value	SI	Value	SI
V1	% Emergent	4	0.14	5	0.15	9	0.18
V2	% Aquatic	2	0.31	5	0.34	25	0.48
V3	Interspersion	%		%		%	
	Class 1	0	0.10	0	0.40	0	0.40
	Class 2	0		0		0	
	Class 3	0		100		100	
	Class 4	0		0		0	
	Class 5	100		0		0	
V4	%OW <= 1.5ft	9	0.22	10	0.23	10	0.23
V5	Salinity (ppt)	9.3	1.00	9.3	1.00	9.3	1.00
V6	Access Value	1.0000	1.00	1.0000	1.00	1.0000	1.00
	Emergent Marsh HSI =		0.30	EM HSI =	0.34	EM HSI =	0.37
	Open Water HS	=	0.66	OW HSI =	0.69	OW HSI =	0.75

Project: Grand Bayou Ridge and Marsh Restoration - Terrace Area Project Area: 350 FWP

		TY	20	TY		TY	
Variable		Value	SI	Value	SI	Value	SI
V1	% Emergent	8	0.17				
V2	% Aquatic	25	0.48				
V3	Interspersion	%		%		%	
	Class 1	0	0.40				
	Class 2	0					
	Class 3	100					
	Class 4	0					
	Class 5	0					
V4	%OW <= 1.5ft	7	0.19				
V5	Salinity (ppt)	9.3	1.00				
V6	Access Value	1.0000	1.00				
		EM HSI =	0.36	EM HSI =		EM HSI =	
		OW HSI =	0.75	OW HSI =		OW HSI =	

Project: Grand Bayou Ridge and Marsh Restoration - Terrace Area Project Area: 350

FWP	i	TY		TY		TY	
Variable		Value	SI	Value	SI	Value	SI
	0/ 5 /	Value	Oi	Value	01	Value	01
V1	% Emergent						
V2	% Aquatic						
V3	Interspersion	%		%		%	
	Class 1						
	Class 2						
	Class 3						
	Class 4						
	Class 5						
V4	%OW <= 1.5ft						
V5	Salinity (ppt)						
V6	Access Value						
		EM HSI =		EM HSI =		EM HSI =	
		OW HSI =		OW HSI =		OW HSI =	

AAHU CALCULATION - EMERGENT MARSH

Project: Grand Bayou Ridge and Marsh Restoration - Terrace Area

Future Without Project			Total	Cummulative
TY	Marsh Acres	x HSI	HUs	HUs
0	14	0.30	4.15	
1	14	0.30	4.15	4.15
20	11	0.29	3.16	69.40
Max=	20		AAHUs =	3.68

Future With Project			Total	Cummulative
TY	Marsh Acres	x HSI	HUs	HUs
0	14	0.30	4.15	
1	18	0.34	6.09	5.09
3	32	0.37	11.88	17.82
20	29	0.36	10.54	190.50
Max=	20		AAHUs	10.67

NET CHANGE IN AAHUS DUE TO PROJECT	
A. Future With Project Emergent Marsh AAHUs =	10.67
B. Future Without Project Emergent Marsh AAHUs =	3.68
Net Change (FWP - FWOP) =	6.99

AAHU CALCULATION - OPEN WATER

Project: Grand Bayou Ridge and Marsh Restoration - Terrace Area

Future With	out Project		Total	Cummulative
TY	Water Acres	x HSI	HUs	HUs
0	336	0.66	220.45	
1	336	0.66	220.45	220.45
20	339	0.65	219.83	4182.70
Max=	20		AAHUs =	220.16

Future With	Future With Project		Total	Cummulative
TY	Water Acres	x HSI	HUs	HUs
0	336	0.66	220.45	
1	317	0.69	218.63	219.65
3	318	0.75	238.31	456.92
20	321	0.75	239.64	4062.56
Max=	20		AAHUs	236.96

NET CHANGE IN AAHUS DUE TO PROJECT	
A. Future With Project Open Water AAHUs =	236.96
B. Future Without Project Open Water AAHUs =	220.16
Net Change (FWP - FWOP) =	16.80

TOTAL BENEFITS IN AAHUS DUE TO PROJECT							
A. Emergent Marsh Habitat Net AAHUs =	6.99						
B. Open Water Habitat Net AAHUs =	16.80						
Net Benefits= (3.5xEMAAHUs+OWAAHUs)/4.5	9.17						

WETLAND VALUE ASSESSMENT

Benefits Summary Sheet

Saline Marsh Project: East Catfish Lake Marsh Creation and Shoreline Protection

TOTAL BENEFITS IN AAHUS DUE TO PROJECT

Area AAHUs
Saline Marsh - Marsh Creation 130.29

TOTAL BENEFITS = 130 AAHUS

WETLAND VALUE ASSESSMENT COMMUNITY MODEL Saline Marsh

Project: East Catfish Lake Marsh Creation and Shoreline Protection Project Area: 306

Condition: Future Without Project

		TY	0	TY	1	TY	20
Variable		Value	SI	Value	SI	Value	SI
V1	% Emergent	23	0.31	23	0.31	10	0.19
V2	% Aquatic	2	0.31	2	0.31	0	0.30
V3	Interspersion	%		%		%	
	Class 1	0	0.20	0	0.20	0	0.10
	Class 2	0		0		0	
	Class 3	0		0		0	
	Class 4	100		100		0	
	Class 5	0		0		100	
V4	%OW <= 1.5ft	7	0.19	7	0.19	2	0.13
V5	Salinity (ppt)	13.9	1.00	13.9	1.00	13.9	1.00
V6	Access Value	1.0000	1.00	1.0000	1.00	1.0000	1.00
	Emergent Mars	h HSI =	0.45	EM HSI =	0.45	EM HSI =	0.35
	Open Water HS	=	0.66	OW HSI =	0.66	OW HSI =	0.64

Project: East Catfish Lake Marsh Creation and Shoreline Protection Project Area: 306

		TY		TY		TY	
Variable		Value	SI	Value	SI	Value	SI
V1	% Emergent						
V2	% Aquatic						
V3	Interspersion	%		%		%	
	Class 1						
	Class 2						
	Class 3						
	Class 4						
	Class 5						
V4	%OW <= 1.5ft						
V5	Salinity (ppt)						
V6	Access Value						
		EM HSI =		EM HSI =		EM HSI =	
		OW HSI =		OW HSI =		OW HSI =	

Project: East Catfish Lake Marsh Creation and Shoreline Protection Project Area: 306

		TY		TY		TY	
Variable		Value	SI	Value	SI	Value	SI
V1	% Emergent						
V2	% Aquatic						
V3	Interspersion	%		%		%	
	Class 1						
	Class 2						
	Class 3						
	Class 4						
	Class 5						
V4	%OW <= 1.5ft						
V5	Salinity (ppt)						
V6	Access Value						
		EM HSI =		EM HSI =		EM HSI =	
		OW HSI =		OW HSI =		OW HSI =	

WETLAND VALUE ASSESSMENT COMMUNITY MODEL Saline Marsh

Project: East Catfish Lake Marsh Creation and Shoreline Protection Project Area: 306

Condition: Future With Project

		TY	0	TY	1	TY	3
Variable		Value	SI	Value	SI	Value	SI
V1	% Emergent	23	0.31	19	0.27	46	0.51
V2	% Aquatic	2	0.31	0	0.30	5	0.34
V3	Interspersion	%		%		%	
	Class 1	0	0.20	0	0.10	0	0.40
	Class 2	0		0		0	
	Class 3	0		0		100	
	Class 4	100		0		0	
	Class 5	0		100		0	
V4	%OW <= 1.5ft	7	0.19	100	0.50	100	0.50
V5	Salinity (ppt)	13.9	1.00	13.9	1.00	13.9	1.00
V6	Access Value	1.0000	1.00	0.0001	0.10	1.0000	1.00
	Emergent Marsh HSI =		0.45	EM HSI =	0.29	EM HSI =	0.63
	Open Water HS	=	0.66	OW HSI =	0.23	OW HSI =	0.71

Project: East Catfish Lake Marsh Creation and Shoreline Protection Project Area: 306 FWP

		TY	5	TY	20	TY	
Variable		Value	SI	Value	SI	Value	SI
V1	% Emergent	97	0.97	90	0.91		
V2	% Aquatic	10	0.37	10	0.37		
V3	Interspersion	%		%		%	
	Class 1	100	1.00	100	1.00		
	Class 2	0		0			
	Class 3	0		0			
	Class 4	0		0			
	Class 5	0		0			
V4	%OW <= 1.5ft	100	0.50	80	1.00		
V5	Salinity (ppt)	13.9	1.00	13.9	1.00		
V6	Access Value	1.0000	1.00	1.0000	1.00		
		EM HSI =	0.98	EM HSI =	0.95	EM HSI =	
		OW HSI =	0.77	OW HSI =	0.81	OW HSI =	

Project: East Catfish Lake Marsh Creation and Shoreline Protection Project Area: 306

	1	TY		TY		TY	
Variable		Value	SI	Value	SI	Value	SI
V1	% Emergent						
V2	% Aquatic						
V3	Interspersion	%		%		%	
	Class 1						
	Class 2						
	Class 3						
	Class 4						
	Class 5						
V4	%OW <= 1.5ft						
V5	Salinity (ppt)						
V6	Access Value						
	-	EM HSI =		EM HSI =		EM HSI =	
		OW HSI =		OW HSI =		OW HSI =	

AAHU CALCULATION - EMERGENT MARSH

Project: East Catfish Lake Marsh Creation and Shoreline Protection

Future With	Future Without Project		Total	Cummulative
TY	Marsh Acres	x HSI	HUs	HUs
0	71	0.45	32.24	
1	69	0.45	31.33	31.79
20	31	0.35	10.73	386.58
Max=	20		AAHUs =	20.92

Future With	Project		Total	Cummulative
TY	Marsh Acres	x HSI	HUs	HUs
0	71	0.45	32.24	
1	59	0.29	16.91	24.24
3	139	0.63	87.25	95.06
5	298	0.98	293.29	361.65
20	275	0.95	260.39	4150.49
Max=	20		AAHUs	231.57

NET CHANGE IN AAHUS DUE TO PROJECT	
A. Future With Project Emergent Marsh AAHUs =	231.57
B. Future Without Project Emergent Marsh AAHUs =	20.92
Net Change (FWP - FWOP) =	210.65

AAHU CALCULATION - OPEN WATER

Project: East Catfish Lake Marsh Creation and Shoreline Protection

Future Without Project			Total	Cummulative
TY	Water Acres	x HSI	HUs	HUs
0	235	0.66	155.47	
1	237	0.66	156.80	156.14
20	275	0.64	176.60	3169.62
Max=	20		AAHUs =	166.29

Future With	Project		Total	Cummulative
TY	Water Acres	x HSI	HUs	HUs
0	235	0.66	155.47	
1	2	0.23	0.45	61.01
3	5	0.71	3.55	3.51
5	8	0.77	6.17	9.65
20	31	0.81	25.04	231.89
Max=	20		AAHUs	15.30

NET CHANGE IN AAHUS DUE TO PROJECT	
A. Future With Project Open Water AAHUs =	15.30
B. Future Without Project Open Water AAHUs =	166.29
Net Change (FWP - FWOP) =	-150.98

TOTAL BENEFITS IN AAHUS DUE TO PROJECT						
A. Emergent Marsh Habitat Net AAHUs =	210.65					
B. Open Water Habitat Net AAHUs =	-150.98					
Net Benefits= (3.5xEMAAHUs+OWAAHUs)/4.5	130.29					

WETLAND VALUE ASSESSMENT

Benefits Summary Sheet

Fresh/Intermediate Marsh
Project: Small Bayou LaPointe Marsh Creation

TOTAL BENEFITS IN AAHUS DUE TO PROJECT

Area AAHUs
Fresh/Intermediate Marsh - Marsh Creation 87.56

TOTAL BENEFITS = 88 AAHUS

WETLAND VALUE ASSESSMENT COMMUNITY MODEL Fresh/Intermediate Marsh

Project: Small Bayou LaPointe Marsh Creation

Project Area: 311 % Fresh % Intermediate 100

Condition: Future Without Project

		TY	0	TY	1	TY	20
Variable		Value	SI	Value	SI	Value	SI
V1	% Emergent	17	0.25	17	0.25	16	0.24
V2	% Aquatic	80	0.82	80	0.82	75	0.78
V3	Interspersion	%		%		%	
	Class 1	0	0.20	0	0.20	0	0.20
	Class 2	0		0		0	
	Class 3	0		0		0	
	Class 4	100		100		100	
	Class 5	0		0		0	
V4	%OW <= 1.5ft	2	0.12	2	0.12	1	0.11
V5	Salinity (ppt)						
	fresh		0.70		0.70		0.70
	intermediate	4		4		4	
V6	Access Value						
	fresh		1.00		1.00		1.00
	intermediate	1.0000		1.0000		1.0000	
	Emergent Marsh	HSI =	0.35	EM HSI =	0.35	EM HSI =	0.34
	Open Water HS	=	0.75	OW HSI =	0.75	OW HSI =	0.72

Project: Small Bayou LaPointe Marsh Creation

FWOP

		TY		TY		TY	
Variable		Value	SI	Value	SI	Value	SI
V1	% Emergent						
V2	% Aquatic						
V3	Interspersion	%		%		%	
	Class 1						
	Class 2						
	Class 3						
	Class 4						
	Class 5						
V4	%OW <= 1.5ft						
V5	Salinity (ppt)						
	fresh						
	intermediate						
V6	Access Value						
	fresh						
	intermediate						
		EM HSI =		EM HSI =		EM HSI =	
		OW HSI =		OW HSI =		OW HSI =	

FWOP	_						
		TY		TY		TY	
Variable		Value	SI	Value	SI	Value	SI
V1	% Emergent						
V2	% Aquatic						
V3	Interspersion	%		%		%	
	Class 1						
	Class 2						
	Class 3						
	Class 4						
	Class 5						
V4	%OW <= 1.5ft						
V5	Salinity (ppt)						
	fresh						
	intermediate						
V6	Access Value						
	fresh						
	intermediate						
		EM HSI =		EM HSI =		EM HSI =	
		OW HSI =		OW HSI =		OW HSI =	

WETLAND VALUE ASSESSMENT COMMUNITY MODEL Fresh/Intermediate Marsh

Project: Small Bayou LaPointe Marsh Creation

Condition: Future With Project

Project Area:	311
% Fresh	
% Intermediate	100

		TY	0	TY	1	TY	3
Variable		Value	SI	Value	SI	Value	SI
V1	% Emergent	17	0.25	17	0.25	42	0.48
V2	% Aquatic	80	0.82	0	0.10	40	0.46
V3	Interspersion	%		%		%	
	Class 1	0	0.20	0	0.10	0	0.40
	Class 2	0		0		0	
	Class 3	0		0		100	
	Class 4	100		0		0	
	Class 5	0		100		0	
V4	%OW <= 1.5ft	2	0.12	100	0.60	100	0.60
V5	Salinity (ppt)						
	fresh		0.70		0.70		0.70
	intermediate	4		4		4	
V6	Access Value						
	fresh		1.00		0.20		1.00
	intermediate	1		0.0001		1.0000	
	Emergent Marsh	HSI =	0.35	EM HSI =	0.28	EM HSI =	0.54
	Open Water HS	=	0.75	OW HSI =	0.20	OW HSI =	0.56

Project: Small Bayou LaPointe Marsh Creation

		TY	5	TY	13	TY	20
Variable		Value	SI	Value	SI	Value	SI
V1	% Emergent	99	0.99	97	0.97	96	0.96
V2	% Aquatic	80	0.82	80	0.82	80	0.82
V3	Interspersion	%		%		%	
	Class 1	0	0.40	100	1.00	100	1.00
	Class 2	0		0		0	
	Class 3	100		0		0	
	Class 4	0		0		0	
	Class 5	0		0		0	
V4	%OW <= 1.5ft	100	0.60	95	0.80	90	1.00
V5	Salinity (ppt)						
	fresh		0.70		0.70		0.70
	intermediate	4		4		4	
V6	Access Value						
	fresh		1.00		1.00		1.00
	intermediate	1.0000		1.0000		1.0000	
		EM HSI =	0.89	EM HSI =	0.95	EM HSI =	0.94
		OW HSI =	0.80	OW HSI =	0.86	OW HSI =	0.87

		TY		TY		TY	
Variable		Value	SI	Value	SI	Value	SI
V1	% Emergent						
V2	% Aquatic						
V3	Interspersion	%		%		%	
	Class 1						
	Class 2						
	Class 3						
	Class 4						
	Class 5						
V4	%OW <= 1.5ft						
V5	Salinity (ppt)						
	fresh						
	intermediate						
V6	Access Value						
	fresh						
	intermediate						
·	_	EM HSI =		EM HSI =		EM HSI =	
		OW HSI =		OW HSI =		OW HSI =	

AAHU CALCULATION - EMERGENT MARSH

Future With	out Project		Total	Cummulative
TY	Marsh Acres	x HSI	HUs	HUs
0	54	0.35	18.76	
1	54	0.35	18.76	18.76
20	50	0.34	17.00	339.68
Max=	20		AAHUs =	17.92

Future With	Project]	Total	Cummulative
TY	Marsh Acres	x HSI	HUs	HUs
0	54	0.35	18.76	
1	53	0.28	14.74	16.74
3	130	0.54	70.55	78.50
5	308	0.89	275.40	325.09
13	303	0.95	287.59	2252.32
20	299	0.94	282.04	1993.65
Max=	20		AAHUs	233.31

NET CHANGE IN AAHUS DUE TO PROJECT	
A. Future With Project Emergent Marsh AAHUs =	233.31
B. Future Without Project Emergent Marsh AAHUs =	17.92
Net Change (FWP - FWOP) =	215.39

AAHU CALCULATION - OPEN WATER

Future With	out Project		Total	Cummulative
TY	Water Acres	x HSI	HUs	HUs
0	257	0.75	191.71	
1	257	0.75	191.71	191.71
20	261	0.72	187.23	3600.28
Max=	20		AAHUs =	189.60

Future With	Project		Total	Cummulative
TY	Water Acres	x HSI	HUs	HUs
0	257	0.75	191.71	
1	1	0.20	0.20	72.50
3	2	0.56	1.12	1.20
5	3	0.80	2.39	3.43
13	8	0.86	6.84	36.53
20	12	0.87	10.44	60.43
Max=	20		AAHUs	8.70

NET CHANGE IN AAHUS DUE TO PROJECT	
A. Future With Project Open Water AAHUs =	8.70
B. Future Without Project Open Water AAHUs =	189.60
Net Change (FWP - FWOP) =	-180.90

TOTAL BENEFITS IN AAHUS DUE TO PROJECT					
A. Emergent Marsh Habitat Net AAHUs =	215.39				
B. Open Water Habitat Net AAHUs =	-180.90				
Net Benefits=(2.1xEMAAHUs+OWAAHUs)/3.1	87.56				

WETLAND VALUE ASSESSMENT

Benefits Summary Sheet

Fresh/Intermediate Marsh and Saline Marsh
Project: North Marsh Restoration - Shoreline Protection Area

TOTAL BENEFITS IN AAHUS DUE TO PROJECT

Area	AAHUs
Fresh/Intermediate Marsh - Shoreline Protection Area	5.86
Area	AAHUs
Fresh/Intermediate Marsh - Marsh Creation Area	90.87
<u>Area</u> Fresh/Intermediate Marsh - Terrace Area	AAHUs 6.99

TOTAL BENEFITS = 104 AAHUS

WETLAND VALUE ASSESSMENT COMMUNITY MODEL Fresh/Intermediate Marsh

Project: North Marsh Restoration - Shoreline Protection Area

Project Area: 45 % Fresh % Intermediate 100

Condition: Future Without Project

		TY	0	TY	1	TY	20
Variable		Value	SI	Value	SI	Value	SI
V1	% Emergent	62	0.66	59	0.63	0	0.10
V2	% Aquatic	13	0.22	13	0.22	0	0.10
V3	Interspersion	%		%		%	
	Class 1	0	0.60	0	0.60	0	0.10
	Class 2	100		100		0	
	Class 3	0		0		0	
	Class 4	0		0		0	
	Class 5	0		0		100	
V4	%OW <= 1.5ft	10	0.21	10	0.21	0	0.10
V5	Salinity (ppt)						
	fresh		0.72		0.72		0.72
	intermediate	3.9		3.9		3.9	
V6	Access Value						
	fresh		1.00		1.00		1.00
	intermediate	1.0000		1.0000		1.0000	
	Emergent Marsh	HSI =	0.70	EM HSI =	0.68	EM HSI =	0.21
	Open Water HSI	=	0.36	OW HSI =	0.36	OW HSI =	0.21

Project: North Marsh Restoration - Shoreline Protection Area

		TY		TY		TY	
Variable		Value	SI	Value	SI	Value	SI
V1	% Emergent						
V2	% Aquatic						
V3	Interspersion	%		%		%	
	Class 1						
	Class 2						
	Class 3						
	Class 4						
	Class 5						
V4	%OW <= 1.5ft						
V5	Salinity (ppt)						
	fresh						
	intermediate						
V6	Access Value						
	fresh						
	intermediate						
		EM HSI =		EM HSI =		EM HSI =	
		OW HSI =		OW HSI =		OW HSI =	

Project: North Marsh Restoration - Shoreline Protection Area

FWOP	_						
		TY		TY		TY	
Variable		Value	SI	Value	SI	Value	SI
V1	% Emergent						
V2	% Aquatic						
V3	Interspersion	%		%		%	
	Class 1						
	Class 2						
	Class 3						
	Class 4						
	Class 5						
V4	%OW <= 1.5ft						
V5	Salinity (ppt)						
	fresh						
	intermediate						
V6	Access Value						
	fresh						
	intermediate						
		EM HSI =		EM HSI =		EM HSI =	
		OW HSI =		OW HSI =		OW HSI =	

WETLAND VALUE ASSESSMENT COMMUNITY MODEL Fresh/Intermediate Marsh

Project: North Marsh Restoration - Shoreline Protection Area

Project Area: 45 % Fresh Condition: Future With Project % Intermediate 100

		TY	0	TY	1	TY	20
Variable		Value	SI	Value	SI	Value	SI
V1	% Emergent	62	0.66	62	0.66	53	0.58
V2	% Aquatic	13	0.22	13	0.22	13	0.22
V3	Interspersion	%		%		%	
	Class 1	0	0.60	0	0.60	0	0.40
	Class 2	100		100		0	
	Class 3	0		0		100	
	Class 4	0		0		0	
	Class 5	0		0		0	
V4	%OW <= 1.5ft	10	0.21	10	0.21	9	0.20
V5	Salinity (ppt)						
	fresh		0.72		0.72		0.72
	intermediate	3.9		3.9		3.9	
V6	Access Value						
	fresh		1.00		1.00		1.00
	intermediate	1		1.0000		1.0000	
	Emergent Marsh	HSI =	0.70	EM HSI =	0.70	EM HSI =	0.62
	Open Water HSI	=	0.36	OW HSI =	0.36	OW HSI =	0.35

Project: North Marsh Restoration - Shoreline Protection Area

FWP	i						
		TY		TY		TY	
Variable		Value	SI	Value	SI	Value	SI
V1	% Emergent						
V2	% Aquatic						
V3	Interspersion	%		%		%	
	Class 1						
	Class 2						
	Class 3						
	Class 4						
	Class 5						
V4	%OW <= 1.5ft						
V5	Salinity (ppt)						
	fresh						
	intermediate						
V6	Access Value						
	fresh						
	intermediate						
-	•	EM HSI =		EM HSI =		EM HSI =	
		OW HSI =		OW HSI =		OW HSI =	

Project: North Marsh Restoration - Shoreline Protection Area

FWP	-						
		TY		TY		TY	
Variable		Value	SI	Value	SI	Value	SI
V1	% Emergent						
V2	% Aquatic						
V3	Interspersion	%		%		%	
	Class 1						
	Class 2						
	Class 3						
	Class 4						
	Class 5						
V4	%OW <= 1.5ft						
V5	Salinity (ppt)						
	fresh						
	intermediate						
V6	Access Value						
	fresh						
	intermediate						
		EM HSI =		EM HSI =		EM HSI =	
		OW HSI =		OW HSI =		OW HSI =	

AAHU CALCULATION - EMERGENT MARSH

Project: North Marsh Restoration - Shoreline Protection Area

Future With	Future Without Project		Total	Cummulative
TY	Marsh Acres	x HSI	HUs	HUs
0	28	0.70	19.47	
1	27	0.68	18.27	18.87
20	0	0.21	0.00	133.25
Max=	20		AAHUs =	7.61

Future With	Future With Project		Total	Cummulative
TY	Marsh Acres	x HSI	HUs	HUs
0	28	0.70	19.47	
1	28	0.70	19.47	19.47
20	24	0.62	14.79	324.50
Max=	20		AAHUs	17.20

NET CHANGE IN AAHUS DUE TO PROJECT	
A. Future With Project Emergent Marsh AAHUs =	17.20
B. Future Without Project Emergent Marsh AAHUs =	7.61
Net Change (FWP - FWOP) =	9.59

AAHU CALCULATION - OPEN WATER Project: North Marsh Restoration - Shoreline Protection Area

Future Without Project			Total	Cummulative
TY	Water Acres	x HSI	HUs	HUs
0	17	0.36	6.13	
1	18	0.36	6.49	6.31
20	45	0.21	9.29	163.16
Max=	20		AAHUs =	8.47

Future With Project			Total	Cummulative
TY	Water Acres	x HSI	HUs	HUs
0	17	0.36	6.13	
1	17	0.36	6.13	6.13
20	20	0.35	6.90	124.00
Max=	20		AAHUs	6.51

NET CHANGE IN AAHUS DUE TO PROJECT	
A. Future With Project Open Water AAHUs =	6.51
B. Future Without Project Open Water AAHUs =	8.47
Net Change (FWP - FWOP) =	-1.97

TOTAL BENEFITS IN AAHUS DUE TO PROJECT						
A. Emergent Marsh Habitat Net AAHUs =	9.59					
B. Open Water Habitat Net AAHUs =	-1.97					
Net Benefits=(2.1xEMAAHUs+OWAAHUs)/3.1	5.86					

WETLAND VALUE ASSESSMENT COMMUNITY MODEL

Fresh/Intermediate Marsh

239

100

% Intermediate

Project: North Marsh Restoration - Marsh Creation Area

Project Area:
% Fresh

Condition: Future Without Project

		TY	0	TY	1	TY	20
Variable		Value	SI	Value	SI	Value	SI
V1	% Emergent	21	0.29	21	0.29	17	0.25
V2	% Aquatic	5	0.15	5	0.15	5	0.15
V3	Interspersion	%		%		%	
	Class 1	0	0.20	0	0.20	0	0.20
	Class 2	0		0		0	
	Class 3	0		0		0	
	Class 4	100		100		100	
	Class 5	0		0		0	
V4	%OW <= 1.5ft	62	0.80	62	0.80	25	0.38
V5	Salinity (ppt)						
	fresh		0.72		0.72		0.72
	intermediate	3.9		3.9		3.9	
V6	Access Value						
	fresh		1.00		1.00		1.00
	intermediate	1.0000		1.0000		1.0000	
	Emergent Marsh	HSI =	0.38	EM HSI =	0.38	EM HSI =	0.35
	Open Water HSI	=	0.31	OW HSI =	0.31	OW HSI =	0.28

Project: North Marsh Restoration - Marsh Creation Area

FWOP

FWOP	1						
		TY		TY		TY	
Variable		Value	SI	Value	SI	Value	SI
V1	% Emergent						
V2	% Aquatic						
V3	Interspersion	%		%		%	
	Class 1						
	Class 2						
	Class 3						
	Class 4						
	Class 5						
V4	%OW <= 1.5ft						
V5	Salinity (ppt)						
	fresh						
	intermediate						
V6	Access Value						
	fresh						
	intermediate						
		EM HSI =		EM HSI =		EM HSI =	
		OW HSI =		OW HSI =		OW HSI =	

Project: North Marsh Restoration - Marsh Creation Area

FWOF

		TY		TY		TY	
Variable		Value	SI	Value	SI	Value	SI
V1	% Emergent						
V2	% Aquatic						
V3	Interspersion	%		%		%	
	Class 1						
	Class 2						
	Class 3						
	Class 4						
	Class 5						
V4	%OW <= 1.5ft						
V5	Salinity (ppt)						
	fresh						
	intermediate						
V6	Access Value						
	fresh						
	intermediate						
	<u> </u>	EM HSI =		EM HSI =		EM HSI =	
		OW HSI =		OW HSI =		OW HSI =	

WETLAND VALUE ASSESSMENT COMMUNITY MODEL

Fresh/Intermediate Marsh

Project Area:

239

Project: North Marsh Restoration - Marsh Creation Area

% Fresh Condition: Future With Project % Intermediate

		TY	0	TY	1	TY	3
Variable		Value	SI	Value	SI	Value	SI
V1	% Emergent	21	0.29	18	0.26	44	0.50
V2	% Aquatic	5	0.15	0	0.10	5	0.15
V3	Interspersion	%		%		%	
	Class 1	0	0.20	0	0.10	0	0.40
	Class 2	0		0		0	
	Class 3	0		0		100	
	Class 4	100		0		0	
	Class 5	0		100		0	
V4	%OW <= 1.5ft	62	0.80	100	0.60	100	0.60
V5	Salinity (ppt)						
	fresh		0.72		0.72		0.72
	intermediate	3.9		3.9		3.9	
V6	Access Value						
	fresh		1.00		0.20		1.00
	intermediate	1		0.0001		1.0000	
	Emergent Marsh	HSI =	0.38	EM HSI =	0.29	EM HSI =	0.56
	Open Water HSI	=	0.31	OW HSI =	0.20	OW HSI =	0.31

Project: North Marsh Restoration - Marsh Creation Area

		TY	5	TY	6	TY	20
Variable		Value	SI	Value	SI	Value	SI
V1	% Emergent	98	0.98	97	0.97	92	0.93
V2	% Aquatic	5	0.15	5	0.15	5	0.15
V3	Interspersion	%		%		%	
	Class 1	0	0.40	100	1.00	100	1.00
	Class 2	0		0		0	
	Class 3	100		0		0	
	Class 4	0		0		0	
	Class 5	0		0		0	
V4	%OW <= 1.5ft	100	0.60	100	0.60	90	1.00
V5	Salinity (ppt)						
	fresh		0.72		0.72		0.72
	intermediate	3.9		3.9		3.9	
V6	Access Value						
	fresh		1.00		1.00		1.00
	intermediate	1.0000		1.0000		1.0000	
		EM HSI =	0.89	EM HSI =	0.95	EM HSI =	0.92
		OW HSI =	0.31	OW HSI =	0.35	OW HSI =	0.38

Project: North Marsh Restoration - Marsh Creation Area

FWP	-						
		TY		TY		TY	
Variable		Value	SI	Value	SI	Value	SI
V1	% Emergent						
V2	% Aquatic						
V3	Interspersion	%		%		%	
	Class 1						
	Class 2						
	Class 3						
	Class 4						
	Class 5						
V4	%OW <= 1.5ft						
V5	Salinity (ppt)						
	fresh						
	intermediate						
V6	Access Value						
	fresh						
	intermediate						
		EM HSI =		EM HSI =		EM HSI =	
		OW HSI =		OW HSI =		OW HSI =	

AAHU CALCULATION - EMERGENT MARSH

Project: North Marsh Restoration - Marsh Creation Area

Future Without Project			Total	Cummulative
TY	Marsh Acres	x HSI	HUs	HUs
0	50	0.38	18.93	
1	49	0.38	18.55	18.74
20	42	0.35	14.69	315.14
Max=	20		AAHUs =	16.69

Future With	Future With Project		Total	Cummulative
TY	Marsh Acres	x HSI	HUs	HUs
0	50	0.38	18.93	
1	44	0.29	12.58	15.66
3	105	0.56	58.59	65.64
5	234	0.89	208.39	252.68
6	233	0.95	221.66	215.04
20	219	0.92	201.90	2964.01
Max=	20		AAHUs	175.65

NET CHANGE IN AAHUS DUE TO PROJECT	
A. Future With Project Emergent Marsh AAHUs =	175.65
B. Future Without Project Emergent Marsh AAHUs =	16.69
Net Change (FWP - FWOP) =	158.96

AAHU CALCULATION - OPEN WATER

Project: North Marsh Restoration - Marsh Creation Area

Future With	Future Without Project		Total	Cummulative
TY	Water Acres	x HSI	HUs	HUs
0	189	0.31	58.59	
1	190	0.31	58.90	58.74
20	197	0.28	54.99	1082.63
Max=	20		AAHUs =	57.07

Future With Project			Total	Cummulative
TY	Water Acres	x HSI	HUs	HUs
0	189	0.31	58.59	
1	1	0.20	0.20	25.87
3	3	0.31	0.93	1.05
5	5	0.31	1.55	2.48
6	6	0.35	2.13	1.83
20	20	0.38	7.68	67.72
Max= 20			AAHUs	4.95

NET CHANGE IN AAHUS DUE TO PROJECT	
A. Future With Project Open Water AAHUs =	4.95
B. Future Without Project Open Water AAHUs =	57.07
Net Change (FWP - FWOP) =	-52.12

TOTAL BENEFITS IN AAHUS DUE TO PROJECT						
A. Emergent Marsh Habitat Net AAHUs =	158.96					
B. Open Water Habitat Net AAHUs =	-52.12					
Net Benefits=(2.1xEMAAHUs+OWAAHUs)/3.1	90.87					

WETLAND VALUE ASSESSMENT COMMUNITY MODEL

Fresh/Intermediate Marsh

Project: North Marsh Restoration - Terracing Area

Project Area: 248
% Fresh
% Intermediate 100

Condition: Future Without Project

		TY	0	TY	1	TY	20
Variable		Value	SI	Value	SI	Value	SI
V1	% Emergent	7	0.16	7	0.16	6	0.15
V2	% Aquatic	18	0.26	18	0.26	18	0.26
V3	Interspersion	%		%		%	
	Class 1	0	0.10	0	0.10	0	0.10
	Class 2	0		0		0	
	Class 3	0		0		0	
	Class 4	0		0		0	
	Class 5	100		100		100	
V4	%OW <= 1.5ft	54	0.71	54	0.71	23	0.36
V5	Salinity (ppt)						
	fresh		0.72		0.72		0.72
	intermediate	3.9		3.9		3.9	
V6	Access Value						
	fresh		1.00		1.00		1.00
	intermediate	1.0000		1.0000		1.0000	
	Emergent Marsh HSI	=	0.26	EM HSI =	0.26	EM HSI =	0.25
	Open Water HSI	=	0.40	OW HSI =	0.40	OW HSI =	0.37

Project: North Marsh Restoration - Terracing Area

FWOP

FWOF	l	TY		TY		TY	
Variable		Value	SI	Value	SI	Value	SI
V1	% Emergent						
V2	% Aquatic						
V3	Interspersion	%		%		%	
	Class 1						
	Class 2						
	Class 3						
	Class 4						
	Class 5						
V4	%OW <= 1.5ft						
V5	Salinity (ppt)						
	fresh						
	intermediate						
V6	Access Value						
	fresh						
	intermediate						
		EM HSI =		EM HSI =		EM HSI =	
		OW HSI =		OW HSI =		OW HSI =	

Project: North Marsh Restoration - Terracing Area

FWOP

		TY		TY		TY	
Variable		Value	SI	Value	SI	Value	SI
V1	% Emergent						
V2	% Aquatic						
V3	Interspersion Class 1 Class 2 Class 3 Class 4	%		%		%	
V4	Class 5 %OW <= 1.5ft						
V5	Salinity (ppt) fresh intermediate						
V6	Access Value fresh intermediate						
		EM HSI = OW HSI =		EM HSI = OW HSI =		EM HSI = OW HSI =	

WETLAND VALUE ASSESSMENT COMMUNITY MODEL Fresh/Intermediate Marsh

Project: North Marsh Restoration - Terracing Area

Project Area: 248
% Fresh
% Intermediate 100

Condition: Future With Project

		TY	0	TY	1	TY	3
Variable		Value	SI	Value	SI	Value	SI
V1	% Emergent	7	0.16	9	0.18	13	0.22
V2	% Aquatic	18	0.26	9	0.18	25	0.33
V3	Interspersion	%		%		%	
	Class 1	0	0.10	0	0.40	0	0.40
	Class 2	0		0		0	
	Class 3	0		100		100	
	Class 4	0		0		0	
	Class 5	100		0		0	
V4	%OW <= 1.5ft	54	0.71	49	0.65	49	0.65
V5	Salinity (ppt)						
	fresh		0.72		0.72		0.72
	intermediate	3.9		3.9		3.9	
V6	Access Value						
	fresh		1.00		1.00		1.00
	intermediate	1		1.0000		1.0000	
	Emergent Marsh HSI	=	0.26	EM HSI =	0.31	EM HSI =	0.34
	Open Water HSI	=	0.40	OW HSI =	0.35	OW HSI =	0.47

Project: North Marsh Restoration - Terracing Area

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		TY	20	TY		TY	
Variable		Value	SI	Value	SI	Value	SI
V1	% Emergent	12	0.21				
V2	% Aquatic	25	0.33				
V3	Interspersion	%		%		%	
	Class 1	0	0.40				
	Class 2	0					
	Class 3	100					
	Class 4	0					
	Class 5	0					
V4	%OW <= 1.5ft	45	0.61				
V5	Salinity (ppt)						
	fresh		0.72				
	intermediate	3.9					
V6	Access Value						
	fresh		1.00				
	intermediate	1.0000					
	•	EM HSI =	0.33	EM HSI =		EM HSI =	
		OW HSI =	0.46	OW HSI =		OW HSI =	

Project: North Marsh Restoration - Terracing Area

w	Р	
vv		

FVVF		TY		TY		TY	
Variable		Value	SI	Value	SI	Value	SI
V1	% Emergent						
V2	% Aquatic						
V3	Interspersion	%		%		%	
	Class 1						
	Class 2						
	Class 3						
	Class 4						
	Class 5						
V4	%OW <= 1.5ft						
V5	Salinity (ppt)						
	fresh						
	intermediate						
V6	Access Value						
	fresh						
	intermediate						
		EM HSI =		EM HSI =		EM HSI =	
		OW HSI =		OW HSI =		OW HSI =	

AAHU CALCULATION - EMERGENT MARSH

Project: North Marsh Restoration - Terracing Area

Future With	out Project		Total	Cummulative
TY	Marsh Acres	x HSI	HUs	HUs
0	18	0.26	4.73	
1	18	0.26	4.73	4.73
20	15	0.25	3.82	81.13
Max=	20		AAHUs =	4.29

Future With	Future With Project		Total	Cummulative
TY	Marsh Acres	x HSI	HUs	HUs
0	18	0.26	4.73	
1	22	0.31	6.86	5.76
3	33	0.34	11.29	18.04
20	31	0.33	10.37	184.11
Max=	20		AAHUs	10.40

NET CHANGE IN AAHUS DUE TO PROJECT	1
A. Future With Project Emergent Marsh AAHUs =	10.40
B. Future Without Project Emergent Marsh AAHUs =	4.29
Net Change (FWP - FWOP) =	6.10

AAHU CALCULATION - OPEN WATER

Project: North Marsh Restoration - Terracing Area

Future Without Project			Total	Cummulative
TY	Water Acres	x HSI	HUs	HUs
0	230	0.40	91.53	
1	230	0.40	91.53	91.53
20	233	0.37	86.71	1693.56
Max=	20		AAHUs =	89.25

Future With Project			Total	Cummulative
TY	Water Acres	x HSI	HUs	HUs
0	230	0.40	91.53	
1	214	0.35	74.27	82.76
3	215	0.47	100.19	174.41
20	217	0.46	100.40	1704.99
Max=	20		AAHUs	98.11

NET CHANGE IN AAHUS DUE TO PROJECT	
A. Future With Project Open Water AAHUs =	98.11
B. Future Without Project Open Water AAHUs =	89.25
Net Change (FWP - FWOP) =	8.85

TOTAL BENEFITS IN AAHUS DUE TO PROJECT	
A. Emergent Marsh Habitat Net AAHUs =	6.10
B. Open Water Habitat Net AAHUs =	8.85
Net Benefits=(2.1xEMAAHUs+OWAAHUs)/3.1	6.99

WETLAND VALUE ASSESSMENT

Benefits Summary Sheet

Fresh/Intermediate Marsh
Project: Southeast White Lake Marsh Creation

TOTAL BENEFITS IN AAHUS DUE TO PROJECT

Area AAHUs
Fresh/Intermediate Marsh - Marsh Creation 172.97

TOTAL BENEFITS = 173 AAHUS

WETLAND VALUE ASSESSMENT COMMUNITY MODEL

Fresh/Intermediate Marsh

Project: Southeast White Lake Marsh Creation

Project Area: 818
% Fresh
% Intermediate 100

Condition: Future Without Project

		TY	0	TY	1	TY	20
Variable		Value	SI	Value	SI	Value	SI
V1	% Emergent	45	0.51	45	0.51	39	0.45
V2	% Aquatic	90	0.91	90	0.91	90	0.91
V3	Interspersion	%		%		%	
	Class 1	0	0.32	0	0.32	0	0.32
	Class 2	0		0		0	
	Class 3	74		74		74	
	Class 4	0		0		0	
	Class 5	26		26		26	
V4	%OW <= 1.5ft	92	0.92	92	0.92	41	0.56
V5	Salinity (ppt)						
	fresh		1.00		1.00		1.00
	intermediate	1.7		1.7		1.7	
V6	Access Value						
	fresh		0.44		0.44		0.44
	intermediate	0.3000		0.3000		0.3000	
	Emergent Marsh	HSI =	0.53	EM HSI =	0.53	EM HSI =	0.50
	Open Water HS	I =	0.76	OW HSI =	0.76	OW HSI =	0.73

Project: Southeast White Lake Marsh Creation

FWOP

		TY		TY		TY	
Variable		Value	SI	Value	SI	Value	SI
V1	% Emergent						
V2	% Aquatic						
V3	Interspersion	%		%		%	
	Class 1						
	Class 2						
	Class 3						
	Class 4						
	Class 5						
V4	%OW <= 1.5ft						
V5	Salinity (ppt)						
	fresh						
	intermediate						
V6	Access Value						
	fresh						
	intermediate						
		EM HSI =		EM HSI =	_	EM HSI =	
		OW HSI =		OW HSI =		OW HSI =	

Project: Southeast White Lake Marsh Creation

FWOP

FWOP	•	r.					
		TY		TY		TY	
Variable		Value	SI	Value	SI	Value	SI
V1	% Emergent						
V2	% Aquatic						
V3	Interspersion	%		%		%	
	Class 1						
	Class 2						
	Class 3						
	Class 4						
	Class 5						
V4	%OW <= 1.5ft						
V5	Salinity (ppt)						
	fresh						
	intermediate						
V6	Access Value						
	fresh						
	intermediate						
		EM HSI =		EM HSI =		EM HSI =	
		OW HSI =		OW HSI =		OW HSI =	

WETLAND VALUE ASSESSMENT COMMUNITY MODEL

Fresh/Intermediate Marsh

Project: Southeast White Lake Marsh Creation

Project Area: 818
% Fresh
% Intermediate 100

Condition: Future With Project

		TY	0	TY	1	TY	3
Variable		Value	SI	Value	SI	Value	SI
V1	% Emergent	45	0.51	28	0.35	61	0.65
V2	% Aquatic	90	0.91	0	0.10	45	0.51
V3	Interspersion	%		%		%	
	Class 1	0	0.32	0	0.10	0	0.40
	Class 2	0		0		0	
	Class 3	74		0		100	
	Class 4	0		0		0	
	Class 5	26		100		0	
V4	%OW <= 1.5ft	92	0.92	100	0.60	100	0.60
V5	Salinity (ppt)						
	fresh		1.00		1.00		1.00
	intermediate	1.7		1.7		1.7	
V6	Access Value						
	fresh		0.44		0.20		0.44
	intermediate	0.3		0.0001		0.3000	
	Emergent Marsh	HSI =	0.53	EM HSI =	0.37	EM HSI =	0.63
	Open Water HS	l =	0.76	OW HSI =	0.22	OW HSI =	0.53

Project: Southeast White Lake Marsh Creation

FWP

FWP	ī						
		TY	5	TY	8	TY	20
Variable		Value	SI	Value	SI	Value	SI
V1	% Emergent	98	0.98	97	0.97	94	0.95
V2	% Aquatic	90	0.91	90	0.91	90	0.91
V3	Interspersion	%		%		%	
	Class 1	0	0.40	100	1.00	100	1.00
	Class 2	0		0		0	
	Class 3	100		0		0	
	Class 4	0		0		0	
	Class 5	0		0		0	
V4	%OW <= 1.5ft	100	0.60	100	0.60	90	1.00
V5	Salinity (ppt)						
	fresh		1.00		1.00		1.00
	intermediate	1.7		1.7		1.7	
V6	Access Value						
	fresh		0.44		0.44		0.44
	intermediate	0.3000		0.3000		0.3000	
	_	EM HSI =	0.82	EM HSI =	0.89	EM HSI =	0.87
		OW HSI =	0.74	OW HSI =	0.78	OW HSI =	0.81

Project: Southeast White Lake Marsh Creation

FWP

FWP	_						
		TY		TY		TY	
Variable		Value	SI	Value	SI	Value	SI
V1	% Emergent						
V2	% Aquatic						
V3	Interspersion	%		%		%	
	Class 1						
	Class 2						
	Class 3						
	Class 4						
	Class 5						
V4	%OW <= 1.5ft						
V5	Salinity (ppt)						
	fresh						
	intermediate						
V6	Access Value						
	fresh						
	intermediate						
·	•	EM HSI =		EM HSI =		EM HSI =	
		OW HSI =		OW HSI =		OW HSI =	

AAHU CALCULATION - EMERGENT MARSH

Project: Southeast White Lake Marsh Creation

Future With	Future Without Project		Total	Cummulative
TY	Marsh Acres	x HSI	HUs	HUs
0	368	0.53	195.32	
1	365	0.53	193.72	194.52
20	322	0.50	159.78	3353.63
Max=	20		AAHUs =	177.41

Future With Project			Total	Cummulative
TY	Marsh Acres	x HSI	HUs	HUs
0	368	0.53	195.32	
1	228	0.37	84.68	136.28
3	498	0.63	313.08	374.60
5	805	0.82	663.06	956.19
8	797	0.89	705.54	2053.14
20	766	0.87	666.32	8230.20
Max=	20		AAHUs	587.52

NET CHANGE IN AAHUS DUE TO PROJECT	
A. Future With Project Emergent Marsh AAHUs =	587.52
B. Future Without Project Emergent Marsh AAHUs =	177.41
Net Change (FWP - FWOP) =	410.11

AAHU CALCULATION - OPEN WATER

Project: Southeast White Lake Marsh Creation

Future With	out Project	Ī	Total	Cummulative
TY	Water Acres	x HSI	HUs	HUs
0	448	0.76	338.81	
1	453	0.76	342.59	340.70
20	496	0.73	361.93	6696.60
Max=	20		AAHUs =	351.86

Future With Project		1	Total	Cummulative
TY	Water Acres	x HSI	HUs	HUs
0	448	0.76	338.81	
1	3	0.22	0.66	129.84
3	8	0.53	4.22	4.36
5	13	0.74	9.60	13.47
8	21	0.78	16.44	38.88
20	52	0.81	42.25	350.27
Max=	20		AAHUs	26.84

NET CHANGE IN AAHUS DUE TO PROJECT	
A. Future With Project Open Water AAHUs =	26.84
B. Future Without Project Open Water AAHUs =	351.86
Net Change (FWP - FWOP) =	-325.02

TOTAL BENEFITS IN AAHUS DUE TO PROJECT					
A. Emergent Marsh Habitat Net AAHUs =	410.11				
B. Open Water Habitat Net AAHUs =	-325.02				
Net Benefits=(2.1xEMAAHUs+OWAAHUs)/3.1	172.97				

WETLAND VALUE ASSESSMENT

Benefits Summary Sheet

Saline Marsh
Project: Long Point Bayou Marsh Creation

TOTAL BENEFITS IN AAHUS DUE TO PROJECT

Area AAHUs
Saline Marsh - Marsh Creation 165.54

TOTAL BENEFITS = 166 AAHUS

WETLAND VALUE ASSESSMENT COMMUNITY MODEL Saline Marsh

Project: Long Point Bayou Marsh Creation Project Area: 392

Condition: Future Without Project

		TY	0	TY	1	TY	20
Variable		Value	SI	Value	SI	Value	SI
V1	% Emergent	13	0.22	13	0.22	13	0.22
V2	% Aquatic	10	0.37	10	0.37	10	0.37
V3	Interspersion	%		%		%	
	Class 1	0	0.20	0	0.20	0	0.20
	Class 2	0		0		0	
	Class 3	0		0		0	
	Class 4	100		100		100	
	Class 5	0		0		0	
V4	%OW <= 1.5ft	94	0.65	94	0.65	81	0.98
V5	Salinity (ppt)	12.5	1.00	12.5	1.00	12.5	1.00
V6	Access Value	1.0000	1.00	1.0000	1.00	1.0000	1.00
	Emergent Mars	h HSI =	0.38	EM HSI =	0.38	EM HSI =	0.38
	Open Water HS	=	0.72	OW HSI =	0.72	OW HSI =	0.75

Project: Long Point Bayou Marsh Creation Project Area: 392

FWOP TY TY TY Variable Value SI Value Value SI SI V1 % Emergent V2 % Aquatic V3 % Interspersion % % Class 1 Class 2 Class 3 Class 4 Class 5 V4 %OW <= 1.5ft V5 Salinity (ppt) V6 Access Value EM HSI = EM HSI = EM HSI =

Project: Long Point Bayou Marsh Creation Project Area: 392

OW HSI =

OW HSI =

OW HSI =

		TY		TY		TY	
Variable		Value	SI	Value	SI	Value	SI
V1	% Emergent						
V2	% Aquatic						
V3	Interspersion	%		%		%	
	Class 1						
	Class 2						
	Class 3						
	Class 4						
	Class 5						
V4	%OW <= 1.5ft						
V5	Salinity (ppt)						
V6	Access Value						
		EM HSI =		EM HSI =		EM HSI =	
		OW HSI =		OW HSI =		OW HSI =	

WETLAND VALUE ASSESSMENT COMMUNITY MODEL Saline Marsh

Project: **Long Point Bayou Marsh Creation** Project Area: 392

Condition: Future With Project

		TY	0	TY	1	TY	3
Variable		Value	SI	Value	SI	Value	SI
V1	% Emergent	13	0.22	21	0.29	60	0.64
V2	% Aquatic	10	0.37	0	0.30	5	0.34
V3	Interspersion	%		%		%	
	Class 1	0	0.20	0	0.10	0	0.40
	Class 2	0		0		0	
	Class 3	0		0		100	
	Class 4	100		0		0	
	Class 5	0		100		0	
V4	%OW <= 1.5ft	94	0.65	100	0.50	100	0.50
V5	Salinity (ppt)	12.5	1.00	12.5	1.00	12.5	1.00
V6	Access Value	1.0000	1.00	0.0001	0.10	1.0000	1.00
	Emergent Mars	h HSI =	0.38	EM HSI =	0.29	EM HSI =	0.71
	Open Water HS	=	0.72	OW HSI =	0.23	OW HSI =	0.71

Project: **Long Point Bayou Marsh Creation** Project Area: 392

FWP

FVVF		TY	5	TY	20	TY	
Variable		Value	SI	Value	SI	Value	SI
V1	% Emergent	98	0.98	98	0.98		
V2	% Aquatic	10	0.37	10	0.37		
V3	Interspersion	%		%		%	
	Class 1	0	0.40	0	0.40		
	Class 2	0		0			
	Class 3	100		100			
	Class 4	0		0			
	Class 5	0		0			
V4	%OW <= 1.5ft	100	0.50	90	0.75		
V5	Salinity (ppt)	12.5	1.00	12.5	1.00		
V6	Access Value	1.0000	1.00	1.0000	1.00		
		EM HSI =	0.92	EM HSI =	0.92	EM HSI =	
		OW HSI =	0.73	OW HSI =	0.74	OW HSI =	

Project: **Long Point Bayou Marsh Creation** Project Area: 392

FWP							
		TY		TY		TY	
Variable		Value	SI	Value	SI	Value	SI
V1	% Emergent						
V2	% Aquatic						
V3	Interspersion	%		%		%	
	Class 1						
	Class 2						
	Class 3						
	Class 4						
	Class 5						
V4	%OW <= 1.5ft						
V5	Salinity (ppt)						
V6	Access Value						•
		EM HSI =		EM HSI =		EM HSI =	
		OW HSI =		OW HSI =		OW HSI =	

AAHU CALCULATION - EMERGENT MARSH

Project: Long Point Bayou Marsh Creation

Future With	Future Without Project		Total	Cummulative
TY	Marsh Acres	x HSI	HUs	HUs
0	52	0.38	19.79	
1	52	0.38	19.79	19.79
20	52	0.38	19.79	376.05
Max=	20		AAHUs =	19.79

Future With	Future With Project		Total	Cummulative
TY	Marsh Acres	x HSI	HUs	HUs
0	52	0.38	19.79	
1	84	0.29	24.75	22.73
3	235	0.71	167.34	171.08
5	384	0.92	354.36	511.23
20	384	0.92	354.36	5315.38
Max=	20		AAHUs	301.02

NET CHANGE IN AAHUS DUE TO PROJECT	
A. Future With Project Emergent Marsh AAHUs =	301.02
B. Future Without Project Emergent Marsh AAHUs =	19.79
Net Change (FWP - FWOP) =	281.23

AAHU CALCULATION - OPEN WATER

Project: Long Point Bayou Marsh Creation

Future With	Future Without Project		Total	Cummulative
TY	Water Acres	x HSI	HUs	HUs
0	340	0.72	245.64	
1	340	0.72	245.64	245.64
20	340	0.75	253.83	4744.98
Max=	20	_	AAHUs =	249.53

Future With Project			Total	Cummulative
TY	Water Acres	x HSI	HUs	HUs
0	340	0.72	245.64	
1	8	0.23	1.80	96.20
3	8	0.71	5.68	7.48
5	8	0.73	5.81	11.49
20	8	0.74	5.96	88.25
Max=	20		AAHUs	10.17

NET CHANGE IN AAHUS DUE TO PROJECT	
A. Future With Project Open Water AAHUs =	10.17
B. Future Without Project Open Water AAHUs =	249.53
Net Change (FWP - FWOP) =	-239.36

TOTAL BENEFITS IN AAHUS DUE TO PROJECT						
A. Emergent Marsh Habitat Net AAHUs =	281.23					
B. Open Water Habitat Net AAHUs =	-239.36					
Net Benefits= (3.5xEMAAHUs+OWAAHUs)/4.5	165.54					

WETLAND VALUE ASSESSMENT

Benefits Summary Sheet

Fresh/Intermediate Marsh and Brackish Marsh Project: Coastwide Hydrologic Improvements

TOTAL BENEFITS IN AAHUS DUE TO PROJECT

Area	AAHUs
Fresh/Intermediate Marsh - FW Intro	41.09
Area	AAHUs
Fresh/Intermediate Marsh - Inundation Reduction	1.26
Tresh intermediate Marsh intinduction reduction	
Area	AAHUs
Brackish Marsh - Inundation Reduction	4.07
<u>First Cycle</u>	AAHUs
First Cycle Total	46.42
Additional Cycles Not Shown In WVAs	AAHUs
Additional Cycles Estimated AAHUs	116

TOTAL BENEFITS = 162 AAHUS

WETLAND VALUE ASSESSMENT COMMUNITY MODEL

Fresh/Intermediate Marsh

Project: Coastwide Hydrologic Improvements-FW Intro

Project Area: % Fresh 1,875 % Intermediate 100

Condition: Future Without Project

		TY	0	TY	1	TY	20
Variable		Value	SI	Value	SI	Value	SI
V1	% Emergent	50	0.55	50	0.55	43	0.49
V2	% Aquatic	38	0.44	38	0.44	36	0.42
V3	Interspersion	%		%		%	
	Class 1	0	0.40	0	0.40	0	0.40
	Class 2	0		0		0	
	Class 3	100		100		100	
	Class 4	0		0		0	
	Class 5	0		0		0	
V4	%OW <= 1.5ft	46	0.62	46	0.62	43	0.58
V5	Salinity (ppt)						
	fresh		0.70		0.70		0.70
	intermediate	4		4		4	
V6	Access Value						
	fresh		0.69		0.69		0.69
	intermediate	0.6154		0.6154		0.6154	
	Emergent Marsh	HSI =	0.57	EM HSI =	0.57	EM HSI =	0.52
	Open Water HS	=	0.51	OW HSI =	0.51	OW HSI =	0.50

Project: Coastwide Hydrologic Improvements-FW Intro

FWOP	1			ī			
		TY		TY		TY	
Variable		Value	SI	Value	SI	Value	SI
V1	% Emergent						
V2	% Aquatic						
V3	Interspersion	%		%		%	
	Class 1						
	Class 2						
	Class 3						
	Class 4						
	Class 5						
V4	%OW <= 1.5ft						
V5	Salinity (ppt)						
	fresh						
	intermediate						
V6	Access Value						
	fresh						
	intermediate						
		EM HSI =		EM HSI =		EM HSI =	
		OW HSI =		OW HSI =		OW HSI =	•

Project: Coastwide Hydrologic Improvements-FW Intro

FWOP	i	TV		TV		TV	
.,		TY	01	TY	01	TY	
Variable		Value	SI	Value	SI	Value	SI
V1	% Emergent						
V2	% Aquatic						
V3	Interspersion	%		%		%	
	Class 1						
	Class 2						
	Class 3						
	Class 4						
	Class 5						
V4	%OW <= 1.5ft						
V5	Salinity (ppt)						
	fresh						
	intermediate						
V6	Access Value						
	fresh						
	intermediate						
-		EM HSI =		EM HSI =		EM HSI =	
		OW HSI =		OW HSI =		OW HSI =	

WETLAND VALUE ASSESSMENT COMMUNITY MODEL

Fresh/Intermediate Marsh

Project: Coastwide Hydrologic Improvements-FW Intro

Project Area: 1,875
% Fresh
% Intermediate 100

Condition: Future With Project

		TY	0	TY	1	TY	20
Variable		Value	SI	Value	SI	Value	SI
V1	% Emergent	50	0.55	50	0.55	45	0.51
V2	% Aquatic	38	0.44	45	0.51	45	0.51
V3	Interspersion	%		%		%	
	Class 1	0	0.40	0	0.40	0	0.40
	Class 2	0		0		0	
	Class 3	100		100		100	
	Class 4	0		0		0	
	Class 5	0		0		0	
V4	%OW <= 1.5ft	46	0.62	46	0.62	43	0.58
V5	Salinity (ppt)						
	fresh		0.70		0.90		0.90
	intermediate	4		3		3	
V6	Access Value						
	fresh		0.69		0.71		0.71
	intermediate	0.6154		0.6325		0.6325	
	Emergent Marsh	HSI =	0.57	EM HSI =	0.59	EM HSI =	0.56
	Open Water HSI	=	0.51	OW HSI =	0.57	OW HSI =	0.57

Project: Coastwide Hydrologic Improvements-FW Intro

FWP

		TY		TY		TY	
Variable		Value	SI	Value	SI	Value	SI
V1	% Emergent						
V2	% Aquatic						
V3	Interspersion	%		%		%	
	Class 1						
	Class 2						
	Class 3						
	Class 4						
	Class 5						
V4	%OW <= 1.5ft						
V5	Salinity (ppt)						
	fresh						
	intermediate						
V6	Access Value						
	fresh						
	intermediate						
	<u> </u>	EM HSI =		EM HSI =		EM HSI =	
		OW HSI =		OW HSI =		OW HSI =	

Project: Coastwide Hydrologic Improvements-FW Intro

FWP

FWP		TY		TY		TY	
Variable		Value	SI	Value	SI	Value	SI
V1	% Emergent						
V2	% Aquatic						
V3	Interspersion	%		%		%	
	Class 1						
	Class 2						
	Class 3						
	Class 4						
	Class 5						
V4	%OW <= 1.5ft						
V5	Salinity (ppt)						
	fresh						
	intermediate						
V6	Access Value						
	fresh						
	intermediate						
		EM HSI =		EM HSI =		EM HSI =	
		OW HSI =		OW HSI =		OW HSI =	

AAHU CALCULATION - EMERGENT MARSH

Project: Coastwide Hydrologic Improvements-FW Intro

Future With	Future Without Project		Total	Cummulative
TY	Marsh Acres	x HSI	HUs	HUs
0	937.5	0.57	531.31	
1	930	0.57	527.06	529.18
20	804	0.52	421.19	8991.26
Max=	20		AAHUs =	476.02

Future With Project			Total	Cummulative
TY	Marsh Acres	x HSI	HUs	HUs
0	937.5	0.57	531.31	
1	933	0.59	550.84	541.09
20	844	0.56	472.45	9712.70
Max=	20		AAHUs	512.69

NET CHANGE IN AAHUS DUE TO PROJECT	
A. Future With Project Emergent Marsh AAHUs =	512.69
B. Future Without Project Emergent Marsh AAHUs =	476.02
Net Change (FWP - FWOP) =	36.67

AAHU CALCULATION - OPEN WATER

Project: Coastwide Hydrologic Improvements-FW Intro

		-		
Future With	Future Without Project		Total	Cummulative
TY	Water Acres	x HSI	HUs	HUs
0	937.5	0.51	479.82	
1	945	0.51	483.66	481.74
20	1071	0.50	532.83	9662.38
Max=	20		AAHUs =	507.21
Max=	20		AAHUS =	507.21

Future With Project			Total	Cummulative
TY	Water Acres	x HSI	HUs	HUs
0	937.5	0.51	479.82	
1	942	0.57	536.12	507.93
20	1031	0.57	584.20	10643.76
Max=	20		AAHUs	557.58

NET CHANGE IN AAHUS DUE TO PROJECT	
A. Future With Project Open Water AAHUs =	557.58
B. Future Without Project Open Water AAHUs =	507.21
Net Change (FWP - FWOP) =	50.38

TOTAL BENEFITS IN AAHUS DUE TO PROJECT						
A. Emergent Marsh Habitat Net AAHUs =	36.67					
B. Open Water Habitat Net AAHUs =	50.38					
Net Benefits=(2.1xEMAAHUs+OWAAHUs)/3.1	41.09					

WETLAND VALUE ASSESSMENT COMMUNITY MODEL

Fresh/Intermediate Marsh

Project: Coastwide Hydrologic Improvements-Inundation Reduction

 Project Area:
 313

 % Fresh
 100

Condition: Future Without Project

		TY	0	TY	1	TY	20
Variable		Value	SI	Value	SI	Value	SI
V1	% Emergent	50	0.55	50	0.55	43	0.49
V2	% Aquatic	38	0.44	38	0.44	36	0.42
V3	Interspersion	%		%		%	
	Class 1	0	0.40	0	0.40	0	0.40
	Class 2	0		0		0	
	Class 3	100		100		100	
	Class 4	0		0		0	
	Class 5	0		0		0	
V4	%OW <= 1.5ft	45	0.61	45	0.61	44	0.60
V5	Salinity (ppt)						
	fresh		0.70		0.70		0.70
	intermediate	4		4		4	
V6	Access Value						
	fresh		0.74		0.74		0.74
	intermediate	0.6742		0.6742		0.6742	
	Emergent Marsh	HSI =	0.57	EM HSI =	0.57	EM HSI =	0.53
	Open Water HSI	=	0.52	OW HSI =	0.52	OW HSI =	0.50

Project: Coastwide Hydrologic Improvements-Inundation Reduction

FWOP

		TY		TY		TY	
Variable		Value	SI	Value	SI	Value	SI
V1	% Emergent						
V2	% Aquatic						
V3	Interspersion	%		%		%	
	Class 1						
	Class 2						
	Class 3						
	Class 4						
	Class 5						
V4	%OW <= 1.5ft						
V5	Salinity (ppt)						
	fresh						
	intermediate						
V6	Access Value						
	fresh						
	intermediate						
		EM HSI =	_	EM HSI =		EM HSI =	
		OW HSI =		OW HSI =		OW HSI =	

Project: Coastwide Hydrologic Improvements-Inundation Reduction

FWOP

FWOP							
		TY		TY		TY	
Variable		Value	SI	Value	SI	Value	SI
V1	% Emergent						
V2	% Aquatic						
V3	Interspersion	%		%		%	
	Class 1						
	Class 2						
	Class 3						
	Class 4						
	Class 5						
V4	%OW <= 1.5ft						
V5	Salinity (ppt)						
	fresh						
	intermediate						
V6	Access Value						
	fresh						
	intermediate						
		EM HSI =		EM HSI =		EM HSI =	
		OW HSI =	_	OW HSI =		OW HSI =	

WETLAND VALUE ASSESSMENT COMMUNITY MODEL Fresh/Intermediate Marsh

Project: Coastwide Hydrologic Improvements-Inundation Reduction

Condition: Future With Project

Project Area:	313
% Fresh	
% Intermediate	100

0.54

		TY	0	TY	1	TY	20
Variable		Value	SI	Value	SI	Value	SI
V1	% Emergent	50	0.55	50	0.55	44	0.50
V2	% Aquatic	38	0.44	38	0.44	38	0.44
V3	Interspersion	%		%		%	
	Class 1	0	0.40	0	0.40	0	0.40
	Class 2	0		0		0	
	Class 3	100		100		100	
	Class 4	0		0		0	
	Class 5	0		0		0	
V4	%OW <= 1.5ft	45	0.61	45	0.61	44	0.60
V5	Salinity (ppt)						
	fresh		0.70		0.70		0.70
	intermediate	4		4		4	
V6	Access Value						
	fresh		0.74		0.76		0.76
	intermediate	0.6742		0.7017		0.7017	

0.57

0.52

0.57

Project: Coastwide Hydrologic Improvements-Inundation Reduction

FWP	_						
		TY		TY		TY	
Variable		Value	SI	Value	SI	Value	SI
V1	% Emergent						
V2	% Aquatic						
V3	Interspersion	%		%		%	
	Class 1						
	Class 2						
	Class 3						
	Class 4						
	Class 5						
V4	%OW <= 1.5ft						
V5	Salinity (ppt)						
	fresh						
	intermediate						
V6	Access Value						
	fresh						
	intermediate						
		EM HSI =		EM HSI =		EM HSI =	
		OW HSI =		OW HSI =		OW HSI =	

Project: Coastwide Hydrologic Improvements-Inundation Reduction

FWP	1						
		TY		TY		TY	
Variable		Value	SI	Value	SI	Value	SI
V1	% Emergent						
V2	% Aquatic						
V3	Interspersion	%		%		%	
	Class 1						
	Class 2						
	Class 3						
	Class 4						
	Class 5						
V4	%OW <= 1.5ft						
V5	Salinity (ppt)						
	fresh						
	intermediate						
V6	Access Value						
	fresh						
	intermediate						
		EM HSI =		EM HSI =		EM HSI =	
		OW HSI =	-	OW HSI =		OW HSI =	

AAHU CALCULATION - EMERGENT MARSH

Project: Coastwide Hydrologic Improvements-Inundation Reduction

Future Without Project			Total	Cummulative
TY	Marsh Acres	x HSI	HUs	HUs
0	156	0.57	89.17	
1	155	0.57	88.60	88.89
20	134	0.53	70.79	1511.36
Max=	20		AAHUs =	80.01

Future With Project			Total	Cummulative
TY	Marsh Acres	x HSI	HUs	HUs
0	156	0.57	89.17	
1	155	0.57	88.94	89.06
20	138	0.54	74.05	1546.38
Max=	20		AAHUs	81.77

NET CHANGE IN AAHUS DUE TO PROJECT	
A. Future With Project Emergent Marsh AAHUs =	81.77
B. Future Without Project Emergent Marsh AAHUs =	80.01
Net Change (FWP - FWOP) =	1.76

AAHU CALCULATION - OPEN WATER

Project: Coastwide Hydrologic Improvements-Inundation Reduction

Future Without Project		1	Total	Cummulative
TY	Water Acres	x HSI	HUs	HUs
0	156	0.52	80.71	
1	157	0.52	81.22	80.97
20	179	0.50	90.31	1630.45
Max=	20		AAHUs =	85.57

Future With	Future With Project		Total	Cummulative
TY	Water Acres	x HSI	HUs	HUs
0	156	0.52	80.71	
1	157	0.52	81.68	81.19
20	174	0.52	90.37	1634.53
Max=	20		AAHUs	85.79

NET CHANGE IN AAHUS DUE TO PROJECT	
A. Future With Project Open Water AAHUs =	85.79
B. Future Without Project Open Water AAHUs =	85.57
Net Change (FWP - FWOP) =	0.21

TOTAL BENEFITS IN AAHUS DUE TO PROJECT							
A. Emergent Marsh Habitat Net AAHUs =	1.76						
B. Open Water Habitat Net AAHUs =	0.21						
Net Benefits=(2.1xEMAAHUs+OWAAHUs)/3.1	1.26						

WETLAND VALUE ASSESSMENT COMMUNITY MODEL **Brackish Marsh**

Project: Coastwide Hydrologic Improvements - Inundation Reduction Project Area: 313

Condition: Future Without Project

		TY	0	TY	1	TY	20
Variable		Value	SI	Value	SI	Value	SI
V1	% Emergent	50	0.55	50	0.55	43	0.49
V2	% Aquatic	21	0.29	21	0.29	20	0.28
V3	Interspersion	%		%		%	
	Class 1	0	0.40	0	0.40	0	0.40
	Class 2	0		0		0	
	Class 3	100		100		100	
	Class 4	0		0		0	
	Class 5	0		0		0	
V4	%OW <= 1.5ft	43	0.65	43	0.65	37	0.58
V5	Salinity (ppt)	7	1.00	7	1.00	7	1.00
V6	Access Value	0.4450	0.50	0.4450	0.50	0.4450	0.50
	Emergent Marsh HSI =		0.57	EM HSI =	0.57	EM HSI =	0.54
	Open Water H	SI =	0.43	OW HSI =	0.43	OW HSI =	0.42

Project: Coastwide Hydrologic Improvements - Inundation Reduction

Project Area:

313

FWOP

FWOP	-						
		TY		TY		TY	
Variable		Value	SI	Value	SI	Value	SI
V1	% Emergent						
V2	% Aquatic						
V3	Interspersion	%		%		%	
	Class 1						
	Class 2						
	Class 3						
	Class 4						
	Class 5						
V4	%OW <= 1.5ft						
V5	Salinity (ppt)						
V6	Access Value						
	·	EM HSI =	-	EM HSI =	-	EM HSI =	
		OW HSI =	<u>-</u>	OW HSI =	<u>-</u>	OW HSI =	

Project: Coastwide Hydrologic Improvements - Inundation Reduction

Project Area:

313

FWOP]	TY		TY		TY	
Variable		Value	SI	Value	SI	Value	SI
V1	% Emergent						
V2	% Aquatic						
V3	Interspersion	%		%		%	
	Class 1						
	Class 2						
	Class 3						
	Class 4						
	Class 5						
V4	%OW <= 1.5ft						
V5	Salinity (ppt)						
V6	Access Value						
		EM HSI =	<u>-</u>	EM HSI =		EM HSI =	
		OW HSI =	<u>-</u>	OW HSI =		OW HSI =	

WETLAND VALUE ASSESSMENT COMMUNITY MODEL Brackish Marsh

Project: Coastwide Hydrologic Improvements - Inundation Reduction Project Area: 313

Condition: Future With Project

		TY	0	TY	1	TY	20
Variable		Value	SI	Value	SI	Value	SI
V1	% Emergent	50	0.55	50	0.55	48	0.53
V2	% Aquatic	21	0.29	21	0.29	20	0.28
V3	Interspersion	%		%		%	
	Class 1	0	0.40	0	0.40	0	0.40
	Class 2	0		0		0	
	Class 3	100		100		100	
	Class 4	0		0		0	
	Class 5	0		0		0	
V4	%OW <= 1.5ft	43	0.65	43	0.65	37	0.58
V5	Salinity (ppt)	7	1.00	7	1.00	7	1.00
V6	Access Value	0.4450	0.50	0.4600	0.51	0.4600	0.51
	Emergent Mars	sh HSI =	0.57	EM HSI =	0.58	EM HSI =	0.57
	Open Water HS	SI =	0.43	OW HSI =	0.44	OW HSI =	0.42

Project: Coastwide Hydrologic Improvements - Inundation Reduction

Project Area:

313

FWP

FVVP	_						
		TY		TY		TY	
Variable		Value	SI	Value	SI	Value	SI
V1	% Emergent						
V2	% Aquatic						
V3	Interspersion	%		%		%	
	Class 1						
	Class 2						
	Class 3						
	Class 4						
	Class 5						
V4	%OW <= 1.5ft						
V5	Salinity (ppt)						
V6	Access Value						
•		EM HSI =		EM HSI =		EM HSI =	
		OW HSI =		OW HSI =		OW HSI =	

Project: Coastwide Hydrologic Improvements - Inundation Reduction

Project Area: 313

-WP

FWP		1				1	
		TY		TY		TY	
Variable		Value	SI	Value	SI	Value	SI
V1	% Emergent						
V2	% Aquatic						
V3	Interspersion	%		%		%	
	Class 1						
	Class 2						
	Class 3						
	Class 4						
	Class 5						
V4	%OW <= 1.5ft						
V5	Salinity (ppt)						
V6	Access Value						
		EM HSI =		EM HSI =		EM HSI =	_
		OW HSI =		OW HSI =		OW HSI =	_

AAHU CALCULATION - EMERGENT MARSH Project: Coastwide Hydrologic Improvements - Inundation Reduction

Future Without Project			Total	Cummulative
TY	Marsh Acres	x HSI	HUs	HUs
0	156	0.57	89.56	
1	155	0.57	88.99	89.28
20	134	0.54	71.92	1526.17
Max TY=	20		AAHUs =	80.77

Future With	Project		Total	Cummulative
TY	Marsh Acres	x HSI	HUs	HUs
0	156	0.57	89.56	
1	156	0.58	89.97	89.76
20	150	0.57	84.91	1661.11
Max TY=	20		AAHUs	87.54

NET CHANGE IN AAHUS DUE TO PROJECT	
A. Future With Project Emergent Marsh AAHUs =	87.54
B. Future Without Project Emergent Marsh AAHUs =	80.77
Net Change (FWP - FWOP) =	6.77

AAHU CALCULATION - OPEN WATER

Project: Coastwide Hydrologic Improvements - Inundation Reduction

Future With	out Project		Total	Cummulative
TY	Water Acres	x HSI	HUs	HUs
0	156	0.43	67.40	
1	157	0.43	67.84	67.62
20	179	0.42	75.38	1361.26
Max TY=	20		AAHUs =	71.44

Future With	Project		Total	Cummulative
TY	Water Acres	x HSI	HUs	HUs
0	156	0.43	67.40	
1	157	0.44	68.31	67.85
20	162	0.42	68.69	1301.66
Max TY=	20		AAHUs	68.48

NET CHANGE IN AAHUS DUE TO PROJECT	
A. Future With Project Open Water AAHUs =	68.48
B. Future Without Project Open Water AAHUs =	71.44
Net Change (FWP - FWOP) =	-2.97

TOTAL BENEFITS IN AAHUS DUE TO PROJECT	
A. Emergent Marsh Habitat Net AAHUs =	6.77
B. Open Water Habitat Net AAHUs =	-2.97
Net Benefits= (2.6xEMAAHUs+OWAAHUs)/3.6	4.07

Coastal Wetlands Planning, Protection, and Restoration Act 28th Priority Project List Report

Appendix D

Economic Analyses for Candidate Projects

Appendix D

Economic Analyses for Candidate Projects

Table of Contents

Project Name	Page Page
East Delacroix Marsh Creation and Terracing	D-1
Breton Landbridge Marsh Creation (West)	D-2
Bayou Terre aux Boeufs Ridge Restoration and Marsh Creation	.D-3
Grand Bayou Ridge and Marsh Restoration	.D-4
East Catfish Lake Marsh Creation and Shoreline Protection	.D-5
Small Bayou LaPointe Marsh Creation	.D-6
North Marsh Restoration (North Increment)	.D-7
Southeast White Lake Marsh Creation	.D-8
Long Point Bayou Marsh Creation	.D-9
Coastwide Hydrologic Improvements	.D-10
Shoreflex II Demonstration	.D-11

East Delacroix Marsh Creation and Terracing Project Priority List 28 (ver.060118)

Project Construction Years:	1	Total Project Years 21
Interest Rate	2.875%	Amortization Factor 0.06644
Fully Funded First Costs	\$37,398,087	Total Fully Funded Costs \$39,838,424
Total Charges	Present Worth	Average Annual
First Costs Monitoring (State + Federal) State O & M Costs Other Federal Costs	\$35,792,055 \$505,786 \$642,604 \$119,981	\$2,378,071 \$33,605 \$42,695
Average Annual Cost	\$2,462,343	\$2,462,343
Average Annual Habitat Units	140	
Cost Per Habitat Unit	\$17,588	

314

Breton Landbridge West

Project Priority List 28 (ver.060118)

Project Construction Years:	1	Total Project Years	21
Interest Rate	2.875%	Amortization Factor	0.06644
Fully Funded First Costs	\$35,891,992	Total Fully Funded Costs \$3	37,538,544
Total Charges	Present Worth		Average Annual
First Costs Monitoring (State + Federal) State O & M Costs Other Federal Costs	\$34,327,916 \$576,729 \$221,329 \$106,005	\$ 	\$2,280,792 \$38,319 \$14,705 \$7,043
Average Annual Cost	\$2,340,859	\$	\$2,340,859
Average Annual Habitat Units	107		
Cost Per Habitat Unit	\$21,877		
Total Net Acres	272		

Bayou Terre aux Boeuf Project Priority List 28 (ver.081718)

Project Construction Years:	1	Total Project Years	21
Interest Rate	2.875%	Amortization Factor	0.06644
Fully Funded First Costs	\$36,782,560	Total Fully Funded Costs	\$38,432,042

Total Charges	Present Worth	Average <u>Annual</u>
First Costs Monitoring (State + Federal) State O & M Costs Other Federal Costs	\$35,314,398 \$576,729 \$223,453 	\$2,346,335 \$38,319 \$14,847 \$7,049
Average Annual Cost	\$2,406,549	\$2,406,549
Average Annual Habitat Units	154	
Cost Per Habitat Unit	\$15,627	
Total Net Acres	283	

Grand Bayou Ridge and Marsh Restoration Project Priority List 28 (ver.060118)

Project Construction Years:	1	To	otal Project Years	21
Interest Rate	2.875%	Ar	Amortization Factor	0.06644
Fully Funded First Costs	\$39,767,213	То	otal Fully Funded Costs	\$41,795,419
Total Charges	Present Worth		_	Average Annual
First Costs Monitoring (State + Federal) State O & M Costs Other Federal Costs	\$37,432,740 \$626,107 \$400,178 \$113,618		_	\$2,487,080 \$41,599 \$26,588 \$7,549
Average Annual Cost	\$2,562,817			\$2,562,817
Average Annual Habitat Units	171			
Cost Per Habitat Unit	\$14,987			

336

East Catfish Lake MC and SP Project Priority List 28 (ver.060118)

Project Construction Years:	1	Total Project Years	21
Interest Rate	2.875%	Amortization Factor	0.06644
Fully Funded First Costs	\$36,251,120	Total Fully Funded Costs	\$40,448,993
Total Charges	Present Worth		Average Annual

Total Charges	Present Worth	Average Annual
First Costs Monitoring (State + Federal) State O & M Costs Other Federal Costs	\$33,857,512 \$552,402 \$1,504,758 \$155,807	\$2,249,537 \$36,702 \$99,978 \$10,352
Average Annual Cost	\$2,396,570	\$2,396,570
Average Annual Habitat Units	130	
Cost Per Habitat Unit	\$18,435	
Total Net Acres	244	

Small Bayou Lapointe Marsh Creation Project Priority List 28 (ver.060118)

Project Construction Years:	1	Total Project Years 2
Interest Rate	2.875%	Amortization Factor 0.06644
Fully Funded First Costs	\$33,032,208	Total Fully Funded Costs \$34,575,172
Total Charges	Present Worth	Average Annual
First Costs Monitoring (State + Federal) State O & M Costs Other Federal Costs	\$31,468,469 \$503,183 \$212,051 \$105,104	\$2,090,806 \$33,432 \$14,089 \$6,983
Average Annual Cost	\$2,145,311	\$2,145,311
Average Annual Habitat Units	88	

\$24,379

249

Cost Per Habitat Unit

North Marsh Creation and Terracing Project Priority List 28 (ver.060118)

Project Construction Years:	1	Total Project Years	21
Interest Rate	2.875%	Amortization Factor	0.06644
Fully Funded First Costs	\$36,181,905	Total Fully Funded Costs	\$41,142,554
Total Charges	Present Worth		Average Annual
First Costs Monitoring (State + Federal) State O & M Costs Other Federal Costs	\$33,963,830 \$604,226 \$1,415,745 \$151,742		\$2,256,601 \$40,146 \$94,064 \$10,082
Average Annual Cost	\$2,400,893		\$2,400,893
Average Annual Habitat Units	104		
Cost Per Habitat Unit	\$23,086		

217

Southeast White Lake Marsh Creation Project Priority List 28 (ver.060118)

Project Construction Years:	1	Total Project Years	21
Interest Rate	2.875%	Amortization Factor	0.06644
Fully Funded First Costs	\$24,427,146	Total Fully Funded Costs	\$25,887,192
Total Charges	Present Worth		Average Annual
First Costs Monitoring (State + Federal) State O & M Costs Other Federal Costs	\$23,059,007 \$503,183 \$183,693 \$103,970		\$1,532,071 \$33,432 \$12,205 \$6,908
Average Annual Cost	\$1,584,615		\$1,584,615

173

\$9,160

444

Average Annual Habitat Units

Cost Per Habitat Unit

Long Point Bayou Marsh Creation Project Priority List 28 (ver.060118)

Project Construction Years:	1	Total Project Years	21
Interest Rate	2.875%	Amortization Factor	0.06644
Fully Funded First Costs	\$11,265,553	Total Fully Funded Costs	\$13,000,363

Total Charges	Present Worth	Average Annual
First Costs Monitoring (State + Federal) State O & M Costs Other Federal Costs	\$10,807,597 \$505,786 \$393,088 \$111,503	\$718,071 \$33,605 \$26,117 \$7,408
Average Annual Cost	\$785,202	\$785,202
Average Annual Habitat Units	166	
Cost Per Habitat Unit	\$4,730	
Total Net Acres	332	

Coastwide Hydrologic Improvements Project Project Priority List 28 (ver.060118)

Project Construction Years:	1	Total Project Years	21
Interest Rate	2.875%	Amortization Factor	0.06644
Fully Funded First Costs	\$2,843,767	Total Fully Funded Costs	\$25,505,424
Total Charges	Present Worth		Average Annual
First Costs Monitoring (State + Federal) State O & M Costs Other Federal Costs	\$2,753,764 \$1,669,979 \$9,428,195 \$1,315,137		\$182,964 \$110,956 \$626,422 \$87,379
Average Annual Cost	\$1,007,720		\$1,007,720
Average Annual Habitat Units	162		
Cost Per Habitat Unit	\$6,220		

220

ShoreFLEX II - Demo

Project Priority List 28 (ver.060118)

Project Construction Years:	1	Total Project Years	21
Interest Rate	2.875%	Amortization Factor	0.06644
Fully Funded First Costs	\$2,771,039	Total Fully Funded Costs	\$3,854,572
Total Charges	Present Worth		Average Annual
First Costs Monitoring (State + Federal) State O & M Costs Other Federal Costs	\$2,646,125 \$258,012 \$405,801 \$91,454		\$175,812 \$17,143 \$26,962 \$6,076
Average Annual Cost	\$225,993		\$225,993
Average Annual Habitat Units	Demo Project		
Cost Per Habitat Unit	Demo Project		
Total Net Acres	Demo Project		

Coastal Wetlands Planning, Protection, and Restoration Act

28th Priority Project List Report

Appendix E

Public Support for Candidate Projects

Coastal Wetlands Planning, Protection, and Restoration Act

28th Priority Project List Report

Appendix E

Public Support for Candidate Projects

East Delacroix Marsh Creation and Terracing

- Guy McInnis Parish President; St. Bernard Parish Government
- Steve Scalise Member of Congress; Congress of the United States, House of Representatives
- Bill Cassidy U.S. Senator (LA); United States Senate
- John Kennedy U.S. Senator (LA); United States Senate
- Sharon E. Herwitt Louisiana State Senator (District 1); Louisiana State Senate
- Ray Garofalo, Jr. Chairman, House Committee on Civil Law and Procedure;
 Louisiana House of Representatives

Bayou Terre aux Boeufs Ridge Restoration and Marsh Creation

- Restore Mississippi River Delta Coalition
- Rita O. Gue President of Arlene & Joseph Charitable Foundation
- Crawford A Rose, III Attorney at Law; Metairie, LA
- Darilyn Demolle Turner Executive Director; Zion Travelers Cooperatives Center
- Arthur J. Johnson CEO; Center for Sustainable Engagement and Development
- Monique Verdin Tribal Councilwoman, District 7; Representing St. Bernard & Plaquemines Parishes

North Marsh Restoration (North Increment) and Southeast White Lake Marsh Creation

• Keith Roy – Assistant Parish Administrator; Vermillion Parish Police Jury

North Marsh Restoration (North Increment) and Long Point Bayou Marsh Creation

• Nedra Hains – Executive Director; Chenier Plain Authority

Long Point Bayou Marsh Creation

• Judd Bares – President; Calcasieu Parish Police Jury

Coastwide Hydrologic Improvements

• Timothy J. Allen – General Manager; Apache Louisiana Minerals LLC





www.sbpg.net

Guy McInnis Parish President

November 28, 2018

Colonel Michael Clancy District Engineer, New Orleans District United States Army Corps of Engineers 7400 Leake Avenue New Orleans, Louisiana 70118

Re: CWPPRA PPL28: East Delacroix Marsh Creation and Terracing

Dear Colonel Clancy:

St. Bernard Parish Government is proud to have worked with the National Oceanic and Atmospheric Administration (NOAA) to nominate the above referenced project for the Coastal Wetlands Planning, Protection and Restoration Act (CWPPRA) Project Priority List (PPL) 28. As the below table indicates, the project has been included in various coastal restoration planning efforts for decades. We are truly excited by the prospect of finally having this long-anticipated project funded.

East Delacroix Marsh Creation and Terracing

Voted #2 by the CWPPRA Technical Committee	April 2018
Voted #1 (PPL 28) in the Breton Sound Basin	February 2018
Voted #5 by the CWPPRA Technical Committee	December 2017
Voted #5 by the CWPPRA Technical Committee	April 2017
Endorsed by 15 officials and stakeholders	March 2017
Voted #2 (PPL 27) in the Breton Sound Basin	February 2017
Included in the 2017 CPRA Master Plan	January 2017
Designated as a Tier 1 Priority by St. Bernard	December 2016
Included in the USACE MRGO Restoration Plan	June 2011
Included in the Biloxi Marsh Corp. Restoration Plan	June 2006

The following coastal stakeholders have endorsed the project:

US Senator Bill Cassidy

US Senator John Kennedy

US Congressman Steve Scalise

Louisiana State Senator Sharon Hewitt

Louisiana State Representative Ray Garafolo

St. Bernard Parish Council

St. Bernard Parish Coastal Zone Advisory Committee

Crescent Soil Conservation District

Borgnemouth Realty Company, LLC

The Livaudais Company, LLC

Lower 9th Ward Center for Sustainable Engagement and Development

Biloxi Marsh Lands Corporation

Foundation for Louisiana

Save Louisiana Coalition

Meraux Foundation

We respectfully request your continued support for this project as it navigates the PPL 28 process. Please contact John Lane (jlane@sbpg.net) if you have any questions regarding the proposed project.

Thank you for your time and consideration.

Sincerely,

Guy McInnis Parish President

St. Bernard Parish Government

STEVE SCALISE 1ST DISTRICT, LOUISIANA

MAJORITY WHIP

THE COMMITTEE ON ENERGY AND COMMERCE

Congress of the United States House of Representatives

Washington, DC 20515-1801

November 26, 2018

2338 RAYBURN HOUSE OFFICE BUILDING WASHINGTON, DC 20515-1801 (202) 225-3015

110 VETERANS BOULEVARD, SUITE 500 METAIRIE, LA 70005 (504) 837-1259

> 21454 KOOP DRIVE, SUITE 2C MANDEVILLE, LA 70471 (985) 893-9064

> 8026 MAIN STREET, SUITE 700 HOUMA, LA 70360 (985) 879-2300

1514 MARTENS DRIVE, SUITE 10 HAMMOND, LA 70401 (985) 340-2185

Coastal Wetlands Planning, Protection and Restoration Act Task Force (CWPPRA) Attention: Colonel Michael Clancy U.S. Army Corps of Engineers New Orleans District 7400 Leake Avenue New Orleans, LA 70118

Dear Colonel Clancy:

I am writing to you regarding your consideration of the St. Bernard Parish Government's East Delacroix Marsh Creation and Terracing Project (Breton Sound Basin) (CWPPRA PPL28). As you are aware, St. Bernard Parish has experienced extensive land loss over the past century. Such losses have made the parish exponentially more vulnerable to future tropical weather events. Immediate action is required, and the referenced project is critical to restoring coastal St. Bernard Parish and protecting life, property, and natural resources throughout the New Orleans metropolitan area.

The East Delacroix Marsh Creation and Terracing project would create or nourish approximately 375 acres of marsh and create approximately 13,860 linear feet of marsh terraces. The project was voted first in the Breton Basin and has been endorsed by several key stakeholders, including the Foundation for Louisiana, the Save Louisiana Coalition, and Meraux Foundation.

I have an interest in this matter and would appreciate your keeping me informed of the progress or outcome of the application. Knowing funds are limited and projects are reviewed through a competitive process, I am respectfully hoping for full and fair consideration of the application within the applicable laws and regulations.

If you have any questions, please contact me through Pam Marphis in my Metairie District office at 110 Veterans Memorial Boulevard, Suite 500, Metairie, LA 70005, (504) 837-1259.

Thank you for your time and attention.

Sincerely,

Steve Scalise Member of Congress

Eve Scaline

SS:pm

BILL CASSIDY, M.D. LOUISIANA

WASHINGTON DC OFFICE-SUITE SH-520 HART SENATE OFFICE BUILDING WASHINGTON, DC 20510 (202) 224-5824

United States Senate

COMMITTEES FINANCE HEALTH, EDUCATION, LABOR, AND PENSIONS ENERGY AND NATURAL RESOURCES VETERANS' AFFAIRS JOINT ECONOMIC COMMITTEE

November 27, 2018

Coastal Wetlands Planning, Protection and Restoration Act (CWPPRA) Task Force Attn: Colonel Michael Clancy U.S. Army Corps of Engineers New Orleans District 7400 Leake Avenue New Orleans, LA 70118

Dear Members.

I respectfully ask that you favorably consider the East Delacroix Marsh Creation and Terracing Project (Breton Sound Basin) for inclusion in CWPPRA Priority Project List 28. As you are aware, St. Bernard Parish has experienced extensive land loss over the past century. These losses have made the parish exponentially more vulnerable to future tropical weather events necessitating the need for immediate action to address this coastal land crisis.

The East Delacroix Marsh Creation and Terracing project would create or nourish approximately 375 acres of marsh and construct nearly 13,860 feet of marsh terraces. Continued erosion and natural disasters have led to the rapid degradation of Louisiana's coastal ecosystem resulting in growing threats to South Louisiana communities from future flooding and hurricane storm surge. This project is critical to restoring coastal St. Bernard Parish as well as protecting life, property and natural resources throughout much of the New Orleans metropolitan area. This project was voted the top priority in the Breton Sound Basin and has been endorsed by several key stakeholders, including the Foundation for Louisiana, the Save Louisiana Coalition, and Meraux Foundation.

I appreciate your consideration of this worthwhile coastal restoration project and feel free to contact my office if you have any additional questions.

Sincerely,

Bill Cassidy, M.D. Bill Cassidy M.D.

United States Senator

SUITE SR-383 RUSSELL BUILDING WASHINGTON, DC 20510 (202) 224-4623

United States Senate

COMMITTEES

APPROPRIATIONS

BANKING, HOUSING, AND URBAN AFFAIRS

BUDGET

JUDICIARY

SMALL BUSINESS AND ENTREPPENEURSHIP

November 27, 2018

Coastal Wetlands Planning, Protection and Restoration Act (CWPPRA) Technical Committee

Re: East Delacroix Marsh Creation and Terracing Project

Dear Committee Members,

I respectfully ask that you carefully consider supporting the "East Delacroix Marsh Creation and Terracing (Breton Sound Basin) Project" for inclusion on CWPPRA Priority Project List 28.

St. Bernard Parish has experienced extensive land loss over the past century. Such losses have made the parish exponentially more vulnerable to future tropical weather events. Immediate action is required, and the above named project is critical to restoring coastal St. Bernard Parish and protecting life, property, and natural resources throughout the New Orleans metropolitan area.

The East Delacroix Marsh Creation and Terracing Project would create or nourish approximately 375 acres of marsh and create approximately 13,860 linear feet of marsh terraces. I understand that the project was voted first in the Breton Basin. I have also been told that the project has been endorsed by several key stakeholders, including the Foundation for Louisiana, the Save Louisiana Coalition, and Meraux Foundation.

In closing, I ask for your careful consideration of this project at the upcoming CWPPRA Technical Committee meeting on December 6, 2018. If you have any questions, please do not hesitate to contact my office.

Sincerely,

John Kennedy

United States Senator

SHARON W. HEWITT State Senator District 1



COMMITTEES
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Public Works, Vice Chairwoman
Environmental Quality
Finance
Joint Legislative Committee
on the Budget
Select Committee on Coastal
Restoration and Flood Control
Select Committee on Women

and Children

November 28, 2018

Coastal Wetlands Planning, Protection and Restoration Act (CWPPRA) Technical Committee

SUBJECT: EAST DELACROIX MARSH CREATION AND TERRACING PROJECT

Dear Members,

I respectfully ask that you consider supporting the following candidate for CWPPRA Priority Project List 28: *East Delacroix Marsh Creation and Terracing* (Breton Sound Basin). As you are aware, St. Bernard Parish has experienced extensive land loss over the past century. Such losses have made the parish exponentially more vulnerable to future tropical weather events. Immediate action is required, and the referenced project is critical to restoring coastal St. Bernard Parish and protecting life, property, and natural resources throughout the New Orleans metropolitan area.

The East Delacroix Marsh Creation and Terracing project would create or nourish approximately 375 acres of marsh and create approximately 13,860 linear feet of marsh terraces. The project was voted first in the Breton Basin and has been endorsed by several key stakeholders, including the Foundation for Louisiana, the Save Louisiana Coalition, and Meraux Foundation.

I would appreciate your strong consideration of this project at the December 6, 2018 CWPPRA Technical Committee meeting.

Please feel free to contact my office with any questions.

Sincerely,

Sharon W. Hewitt

Louisiana State Senator, District 1

Cc: Guy McInnis, President, St. Bernard Parish Government
John Lane, Executive Director of Coastal Operations, St. Bernard Parish Government

LOUISIANA HOUSE OF REPRESENTATIVES

District Office
100 Port Boulevard, 2nd Floor
Chalmette, Louisiana 70043
(504) 277-4729 • Fax (504) 278-6597
GarofaloR@legis.la.gov
State Capitol Office
900 N. Third Street, Room 1212
Baton Rouge, Louisiana 70802
(225) 342-5105 • Fax (225) 342-6282



Chairman, House Committee on
Civil Law and Procedure
House Leadership Committee
CPRA Finance Committee
Governor's Coastal Advisory Commission
Louisiana State Law Institute
Louisiana International
Gulf Transfer Terminal Board

Raymond E. "Ray" Garofalo, Jr. State Representative – District 103

Chairman, House Committee on Civil Law and Procedure

November 26, 2018

Coastal Wetlands Planning, Protection and Restoration Act (CWPPRA) Technical Committee

RE: East Delacroix Marsh Creation and Terracing Project

Dear Members:

I respectfully ask that you consider supporting the following candidate for CWPPRA Priority Project List 28: East Delacroix Marsh Creation and Terracing (Breton Sound Basin). As you are aware, St. Bernard Parish has experienced extensive land loss over the past century. Such losses have made the parish exponentially more vulnerable to future tropical weather events. Immediate action is required, and the referenced project is critical to restoring coastal St. Bernard Parish and protecting life, property, and natural resources throughout the New Orleans metropolitan area.

The East Delacroix Marsh Creation and Terracing project would create or nourish approximately 375 acres of marsh and create approximately 13,860 linear feet of marsh terraces. The project was voted first in the Breton Basin and has been endorsed by several key stakeholders, including the Foundation for Louisiana, the Save Louisiana Coalition, and Meraux Foundation.

We respectfully request your consideration for this project at the December 6, 2018 CWPPRA Technical Committee meeting.

Please don't hesitate to contact me with any questions or if I can be of assistance to you in anyway.

Sincerely,

Garofato, Jr.

House Committee on Civil Law and Procedure

REG/js

cc: Guy McInnis, President, St. Bernard Parish Government

John Lane, Executive Director of Coastal Operations, St. Bernard Parish Government

John Lane, Executive Director of Coastal Operations, St. Bernard Parish Government



MississippiRiverDelta.org

/MississippiRiverDelta





@RestoreDelta

November 2, 2018

Colonel Michael N. Clancy
District Commander, New Orleans
U.S. Army Corps of Engineers
Executive Office
7400 Leake Ave., New Orleans, LA 70118

Dear Mr. Clancy and CWPPRA Taskforce:

The Restore the Mississippi River Delta Coalition is dedicated to large-scale, ecosystem restoration in the Mississippi River Delta and the Bayou Terre aux Boeufs Ridge Restoration and Marsh Creation is priority project for all of our organizations. This project is an excellent example of a CWPPRA project that can help achieve the vision of the Louisiana Coastal Master Plan and sustain our coast for a more resilient future. We believe that this project should be a priority for the CWPPRA program and Technical Committee to advance for Phase 1 funding.

As organizations with long-standing interest in CWPPRA coastal projects, we are writing to show our support for the Natural Resources Conservation Services proposed PPL28 project, Bayou Terre aux Boeufs Ridge Restoration and Marsh Creation. This project will restore critical habitat and estuarine functions in the Breton Basin, which will help maintain the marsh and provide storm protection to Plaquemines and St. Bernard parishes, and the greater New Orleans area.

The historical ridge of Bayou Terre aux Boeufs, which stretches from Delacroix to Black Bay, has provided coastal upland habitat, a hydrologic barrier between brackish and intermediate marsh in the Breton Basin, and wave and storm surge attenuation. This region also serves as critical migratory bird habitat, providing vital stopover for millions of birds crossing back and forth over the Gulf of Mexico each year, and is proposed as an Important Bird Area because of the diverse conservation priority species the area supports. Unfortunately, erosion in the region has led to a much narrower ridge than was historically present, and subsidence and saltwater intrusion has killed off most of the trees.

The Bayou Terre aux Boeufs Ridge Restoration and Marsh Creation project will create almost 30,000 acres of forested, coastal ridge habitat, and create and nourish over 500 acres of marsh habitat along the ridge. This proposed CWPPRA project would provide significant progress toward the 2017 Coastal Master Plan Bayou Terre aux Boeufs Ridge Restoration (001.RC.100) project. This project will result in increased protection from storm surge and waves, improved fish and wildlife habitat, and increased resiliency of coastal wetlands to erosion, subsidence, and sea level rise.

We greatly appreciate the considerations of such a worthwhile restoration effort and are pleased to see CWPPRA continuing their efforts to provide funding for much needed projects. This process has already provided immense support for coastal restoration and continues to push forward projects consistent with the











RESTORE THE MISSISSIPPI RIVER DELTA

MississippiRiverDelta.org

//MississippiRiverDelta





@RestoreDelta

Coastal Master Plan. We hope these comments underscore both the urgency of project implementation and continuing fiscal responsibility as we work together toward a sustainable coast.

Sincerely,

Natalie Snider

Science Policy Director

Environmental Defense Fund

MatalieSnider

Kim Reyher

Executive Director,

Coalition to Restore Coastal Louisiana

John Lopez, Ph.D.

Director, Coast and Community Program
Lake Pontchartrain Basin Foundation

John a. Segs

Cynthia Duet

Deputy Director,

Audubon Louisiana

David Muth

Director, Gulf Restoration Program

National Wildlife Federation

David P. Mutz

cc: Brad Inman, CWPPRA Program Manager, U.S. Army Corps of Engineers, New Orleans District Johnny Bradberry, Executive Assistant to the Governor for Coastal Activities, Governor's Office William K. Honker, Director of Water Quality Division, U.S. EPA Region 6 Water Division Jeff Weller, Program Supervisor, U.S. Fish and Wildlife Service

Kevin Norton, State Conservationist, Natural Resources Conservation Service

Christopher Doley, Director NOAA Restoration Center, National Oceanic & Atmospheric Administration

Micaela Conor, Project Manager, CPRA Project Management Division

Ron Boustany, Natural Resources Specialist, Natural Resources Conservation Service Louisiana













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SIDNEY D. TORRES, III

November 28, 2018

Colonel Michael N. Clancy District Commander, New Orleans U.S. Army Corps of Engineers Executive Office 7400 Leake Avenue New Orleans, LA 70118

Dear Colonel Clancy:

The Arlene & Joseph Meraux Charitable Foundation would like to express it's support for the Bayou Terre aux Boeufs Ridge Restoration and Marsh Creation. The Foundation is pleased that our Coastal and Environmental Program Manager, Blaise Pezold, helped design this project with the USDANRCS, and the Phase 1 funded PO-178 Bayou La Loutre project.

Both the Bayou Terre aux Boeuf Ridge and PO-178 projects are in the St. Bernard Parish Coastal Plan as Tier 1 priorities.

The Foundation's focus is to improve the environment and quality of life for the citizens of St. Bernard Parish. Accordingly, the Foundation wholeheartedly supports this project.

Sincerely,

Rita O. Gue

President

Arlene & Joseph Meraux Charitable Foundation

ita) Q. Lue.

ROG/mjl

DOCVILLE FARM 5128 E. SAINT BERNARD HWY, VIOLET, LOUISIANA 70092

MERAUXFOUNDATION.ORG

LAW OFFICE OF CRAWFORD A. ROSE, III

ATTORNEY AT LAW 3636 SOUTH I-10 SERVICE ROAD, SUITE 210 **METAIRIE, LOUISIANA 70001**

Direct Line (504) 920-0028

Telephone (504) 828-1600 Bradue) Facsimile (504) 828-1555

Friday, October 26, 2018

District Commander, New Orleans U.S. Army Corps of Engineers **Executive Office** 7400 Leake Ave., New Orleans, LA 70118

RE: Bayou Terre aux Boeufs PPL28

Dear Mr. Clancy and CWPPRA Taskforce:

NOV 1 3 2018

I am writing on behalf of myself regarding the Bayou Terre aux Boeufs PPL28 candidate for hydrology restoration. I am advised that the Restore the Mississippi River Delta Coalition is dedicated to large-scale, ecosystem restoration in the Mississippi River Delta. I am further advised that the Bayou Terre aux Boeufs Ridge Restoration and Marsh Creation is priority project in accord with the vision of the Louisiana Coastal Master Plan to sustain coastal plains. I am writing to suggest priority for the CWPPRA program and agree that the Technical Committee should advance the Phase 1 funding requests of the various stakeholders.

I am informed that the ridge of Bayou Terre aux Boeufs is a hydrologic barrier between brackish and intermediate marsh in the Breton Basin prevents wave and storm surge attenuation. It is a fact that erosion in the region has led to a much narrower ridge. Subsidence and saltwater intrusion has killed trees and scrub. It is hoped that the salinity will be beneficially altered by such restoration and diversion projects, making the growth of more diverse vegetation possible.

My family has owned Section 17 property for many years and has been very concerned about the erosion in this zone since 1964. Support for the Natural Resources Conservation Services proposed PPL28 project, Bayou Terre aux Boeufs Ridge Restoration and Marsh Creation is consistent with our position that there has been a need for erosion prevention for many years. I am informed that the proposed project site restoration may improve estuarine functions in the Breton Basin, which will help maintain the marsh. Please be advised that the gas pipeline servitude canals located on Section 17 are very hazardous to dredging operations. The spoil bank between the canals have eroded away but there are two (2) separate gas pipelines in the water adjacent to the proposed sites. Given these facts please exercise extreme care in your site operations to avoid damage to life and property.

Lank you US Army CEM IN EX New Orleans District Thank you for your consideration of such a worthwhile restoration effort.

Sincerely,

Crawford A. Rose, III



ZION TRAVELERS COOPERATIVES CENTER, INC.

120 THOMAS LANE BRAITHWAITE LA, 70040 (504) 333-7945 (P) (504) 296-5622(C) DRLYN TURNER@YAHOO.COM WWW.ZIONTCC.COM

Colonel Michael N. Clancy
District Commander, New Orleans
U.S. Army Corps of Engineers
Executive Office
7400 Leake Ave., New Orleans, LA 70118

Dear Mr. Clancy and CWPPRA Taskforce:

Zion Travelers Cooperative Center, Inc. is dedicated to this Marsh Creation Project and any and all priority project for all of our organizations. As an organization that thrives, works, and advocate for Plaquemines Parish we definitely applauded and appreciate the effort in helping in rebuilding in our area. This project is an excellent example of a CWPPRA project that can help achieve the vision of the Louisiana Coastal Master Plan and sustain our coast for a more resilient future. We believe that this project should be a priority for the CWPPRA program and Technical Committee to advance for Phase 1 funding.

As organizations with long-standing interest in CWPPRA coastal projects, we are writing to show our support for the Natural Resources Conservation Services proposed PPL28 project, Bayou Terre aux Boeufs Ridge Restoration and Marsh Creation. This project will restore critical habitat and estuarine functions in the Breton Basin, which will help maintain the marsh and provide storm protection to Plaquemines and St. Bernard parishes, and the greater New Orleans area.

The historical ridge of Bayou Terre aux Boeufs, which stretches from Delacroix to Black Bay, has provided coastal upland habitat, a hydrologic barrier between brackish and intermediate marsh in the Breton Basin, and wave and storm surge attenuation. This region also serves as critical migratory bird habitat, providing vital stopover for millions of birds crossing back and forth over the Gulf of Mexico each year, and is proposed as an Important Bird Area because of the diverse conservation priority

species the area supports. Unfortunately, erosion in the region has led to a much narrower ridge than

was historically present, and subsidence and saltwater intrusion has killed off most of the trees.

The Bayou Terre aux Boeufs Ridge Restoration and Marsh Creation project will create almost 30,000

acres of forested, coastal ridge habitat, and create and nourish over 500 acres of marsh habitat along

the ridge. This proposed CWPPRA project would provide significant progress toward the 2017 Coastal

Master Plan Bayou Terre aux Boeufs Ridge Restoration (001.RC.100) project. This project will result in

increased protection from storm surge and waves, improved fish and wildlife habitat, and increased

resiliency of coastal wetlands to erosion, subsidence, and sea level rise.

We greatly appreciate the considerations of such a worthwhile restoration effort and are pleased to

see CWPPRA continuing their efforts to provide funding for much needed projects. This process has

already provided immense support for coastal restoration and continues to push forward projects

consistent with the Coastal Master Plan. We hope these comments underscore both the urgency of

project implementation and continuing fiscal responsibility as we work together toward a sustainable

coast.

Sincerely,

Darilyn Demolle Turner

Darilyn Demolle Turner, Executive Director



River to Bayou

November 26, 2018

Colonel Michael N. Clancy District Commander, New Orleans U.S. Army Corps of Engineers Executive Office 7400 Leake Ave., New Orleans, LA 70118

Dear Mr. Clancy and CWPPRA Taskforce:

The Center for Sustainable Engagement and Development, (CSED) is dedicated to large-scale, ecosystem restoration in the Mississippi River Delta and the Bayou Terre aux Boeufs Ridge Restoration and Marsh Creation is a priority project. This project is an excellent example of a CWPPRA project that can help achieve the vision of the Louisiana Coastal Master Plan and sustain our coast for a more resilient future. We believe that this project should be a priority for the CWPPRA program and Technical Committee to advance for Phase 1 funding.

As an organization with long-standing interest in CWPPRA coastal projects, CSED is writing to show its support for the Natural Resources Conservation Services proposed PPL28 project, Bayou Terre aux Boeufs Ridge Restoration and Marsh Creation. This project will restore critical habitat and estuarine functions in the Breton Basin, which will help maintain the marsh and provide storm protection to Plaquemines and St. Bernard parishes, and the greater New Orleans area.

The historical ridge of Bayou Terre aux Boeufs, which stretches from Delacroix to Black Bay, has provided coastal upland habitat, a hydrologic barrier between brackish and intermediate marsh in the Breton Basin, and wave and storm surge attenuation. This region also serves as critical migratory bird habitat, providing vital stopover for millions of birds crossing back and forth over the Gulf of Mexico each year, and is proposed as an Important Bird Area because of the diverse conservation priority species the area supports. Unfortunately, erosion in the region has led to a much narrower ridge than was historically present, and subsidence and saltwater intrusion has killed off most of the trees.

The Bayou Terre aux Boeufs Ridge Restoration and Marsh Creation project will create almost 30,000 acres of forested, coastal ridge habitat, and create and nourish over 500 acres of marsh habitat along the ridge. This proposed CWPPRA project would provide significant progress toward the 2017 Coastal Master Plan Bayou Terre aux Boeufs Ridge Restoration (001.RC.100) project. This project will result in increased protection from storm surge and waves, improved fish and wildlife habitat, and increased resiliency of coastal wetlands to erosion, subsidence, and sea level rise.

CSED greatly appreciates the consideration of such a worthwhile restoration effort and is pleased to see CWPPRA continuing their efforts to provide funding for much needed projects. This process has already provided immense support for coastal restoration and continues to push forward projects consistent with the Coastal Master Plan. We hope these comments underscore both the urgency of project implementation and continuing fiscal responsibility as we work together toward a sustainable coast.

Sincerely,

Arthur J Johnson Arthur J. Johnson, CEO

Carriere, Kaitlyn M CIV USARMY CEMVN (US)

From: Bradley, Sarah C CIV USARMY CEMVN (US)
Sent: Monday, December 3, 2018 4:06 PM

To: Carriere, Kaitlyn M CIV USARMY CEMVN (US)

Subject: Fwd: [Non-DoD Source] FW: Bayou Terre aux Beoufs support

Follow Up Flag: Follow up Completed

From: Amanda Moore < MooreA@nwf.org> Date: December 3, 2018 at 3:08:48 PM CST

To: Inman, Brad L CIV USARMY CEMVN (US) <Brad.L.Inman@usace.army.mil>, Bradley, Sarah C CIV

USARMY CEMVN (US) <Sarah.C.Bradley@usace.army.mil> **Subject:** [Non-DoD Source] FW: Bayou Terre aux Beoufs support

Hi Brad and Sarah-

Here is one more letter of support for the Bayou Terre aux Boeufs ridge restoration CWPPRA project (see below). I wanted to also double-check that the letters from Mr. Crawford, Meraux Foundation, Zion TCC (Darilyn Turner), Delacroix Corporation, Restore the MRD, and Lower 9 CSED have been received and shared with the task force. Thank you!

From: Monique Verdin [mailto:monique.verdin@unitedhoumanation.org]

Sent: Monday, December 03, 2018 4:02 PM **To:** Amanda Moore <MooreA@nwf.org> **Subject:** Bayou Terre aux Beoufs support

December 3, 2018
Colonel Michael N. Clancy
District Commander, New Orleans
U.S. Army Corps of Engineers
Executive Office
7400 Leake Ave., New Orleans, LA 70118

Dear Mr. Clancy and CWPPRA Taskforce:

As a citizen of the United Houma Nation and a resident of easter St. Bernard Parish, along the Terre aux Beoufs ridge, I would like to make a record in full support for a large-scale, ecosystem restoration in the Mississippi River Delta and the Bayou Terre aux Boeufs Ridge Restoration and Marsh Creation.

The historical ridge of Bayou Terre aux Boeufs, not only provides critical coastal habitat, but acts as a natural buffer protecting our communities from storm surge.

Sincerely,

Monique Verdin Tribal Councilwoman, District 7 Representing St. Bernard & Plaquemines Parishes 504.330.0768

--

Monique Verdin

United Houma Nation Tribal Council, District 7 Cell: 504.330.0768



VERMILION PARISH POLICE JURY

Courthouse Bldg. 100 N. State St., Suite 200 Abbeville, Louisiana 70510



PH: 337-898-4300 • FAX: 337-898-4310 • www.vermilionparishpolicejury.com

KEVIN SAGRERA PRESIDENT

DANE HEBERT VICE PRESIDENT

KEITH ROY
PARISH ADMINISTRATOR

CAROLYN BESSARD
ASST. PARISH ADMINISTRATOR

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> DISTRICT 9 KEVIN SAGRERA

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DISTRICT 11 PERVIS GASPARD

DISTRICT 12 CLORIS J. BOUDREAUX

> DISTRICT 13 SANDRUS STELLY

DISTRICT 14 LEON BROUSSARD



November 20, 2018

Colonel Michael Clancy
District Engineer, New Orleans District
c/o Brad Inman
U.S. Army Corps of Engineers
7400 Leake Avenue
New Orleans, La 70118

RE: NORTH MARSH RESTORATION (NORTH INCREMENT) AND SOUTHEAST WHITE LAKE MARSH CREATION

Dear Colonel Clancy:

In action taken at their November 19, 2018 meeting, the Vermilion Parish Police Jury did resolve to support the North Marsh Restoration (North Increment) and Southeast White Lake Marsh Creation Projects.

We are also requesting, the Tech Committee to vote for Phase I Engineering and Design funding for these two Vermilion Parish Projects.

Should you have any questions, or need additional information, please feel free to call on us.

Respectfully,

Assistant Parish Administrator



7515 Jefferson Highway #322 Baton Rouge, LA 70806 225.333.8234 www.cpcrpa.org

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Vermilion

RESTORING & PROTECTING CALCASIEU, CAMERON, & VERMILION PARISHES

Dear Coastal Wetland Planning, Protection and Restoration (CWPPRA),

The Chenier Plain Coastal Restoration and Protection Authority (Chenier Plain Authority) would like to support the following projects:

CS: "Long Point Bayou Marsh Creation" for phase I funding from the CWPPRA Task Force for Planning, Engineering and Design.

TV: "North Marsh Restoration (North Increment)" for phase I funding from the CWPPRA Task Force for Planning, Engineering and Design.

The Chenier Plain Authority would like to thank CWPPRA for all of the projects in Southwest Louisiana. Please contact the Authority with any questions or comments cpcrpa10@gmail.com.

Nedra Hains, Executive Director Chenier Plain Authority

Nedia Hains



PAR INMAN

P.O. Drawer 3287 • 1015 Pithon Street • Lake Charles, Louisiana 70602-3287 337/721-3500 • Fax 337/437-3399 www.cppj.net

Judd Bares President

Kevin White Vice President

Bryan C. Beam Parish Administrator **MEMORANDUM**

Kevin White

District 1

Calvin Collins

District 2

Shelly Mayo District 3

Tony Guillory District 4

Brian Abshire District 5

Dennis Scott District 6

Chris E. Landry District 7

Guy Brame District 8

Kevin Guidry District 9

Shalon Latour District 10

Sandy Treme District 11

Judd Bares District 12

Francis Andrepont District 13

> Hal McMillin District 14

Les Farnum District 15

TO:

Members of CWPPRA Task Force

FROM:

Judd Bares, President

Calcasieu Parish Police Jury

DATE:

September 25, 2018

RE:

Support Long Point Bayou Marsh Creation Project

Enclosed is a certified copy of a resolution adopted by the Calcasieu Parish Police Jury on September 20, 2018, wherein the Police Jury respectfully requests support for Phase I funding needed for engineering and design of the Long Point Bayou Marsh Creation Project by the Coastal Wetland Planning, Protection and Restoration Act (CWPPRA) Task Force.

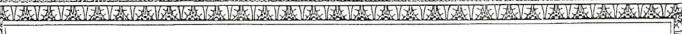
Your support in this matter would be greatly appreciated.

klc

cc:

Enclosure

Ms. Laurie Cormier, Division of Planning and Development





WHEREAS, the Calcasieu-Sabine Basin marshes have experienced an increased inundation of saltwater due to Hurricanes Rita and Ike, and it is unlikely that these marshes will recover from the losses experienced without comprehensive restoration efforts; and

WHEREAS, this marsh restoration project will create 376 acres of marsh near Long Point Bayou just North of the Sabine National Wildlife Refuge. Specific goals of the project are: create 376 acres of emergent brackish marsh through beneficial use of the sediment dredged from the Calcasieu Ship Channel; nourish 54 acres of existing marsh;

WHEREAS, this project would provide protection from storm surge for the Town of Hackberry, which is approximately four miles north of the proposed project; and

NOW, THEREFORE,

BE IT RESOLVED BY THE POLICE JURY OF CALCASIEU PARISH,

LOUISIANA, convened in Regular Session on the 20th day of September, 2018, that it does hereby support the "Long Point Bayou Marsh Creation" for Phase I funding from the Coastal Wetland Planning Protection and Restoration (CWPPRA) Task Force for Planning, Engineering and Design of the project which is located near Long Point Bayou just North of the Sabine National Wildlife Refuge.

BE IT FURTHER AND FINALLY RESOLVED that certified copies of this resolution be forwarded to members of CWPPRA Task Force for support in this matter.

THUS DONE AND PASSED on the date above inscribed

* * * * * * * * * * *

STATE OF LOUISIANA PARISH OF CALCASIEU

I HEREBY CERTIFY that the foregoing is a true and correct copy of the original resolution as adopted by the Calcasieu Parish Police Jury in Regular Session convened on the 20th day of September, 2018.

IN TESTIMONY WHEREOF witness my official signature and the seal of the Parish of Calcasier, Louisiana, on this the

Kathy P. Smith, Parish Secretary



APACHE LOUISIANA MINERALS LLC

(985) 879-3528 TEL · (985) 876-5267 FAX

Mailing Address: Post Office Box 206, Houma, LA 70361-0206

Deliveries Only: 1913 LaTerre Court, Houma, LA 70363-7525

November 19, 2018

Mr. Mark Wingate, Chairman CWPPRA Technical Committee Deputy District Engineer Department of the Army NOD, Corps of Engineers 7400 Leake Avenue New Orleans, LA 70118

RE: PPL 28 Coastwide Hydrologic Improvements

Dear Chairman:

Apache Louisiana Minerals LLC (ALM) owns approximately 270,000 acres of fee land holdings across south Louisiana, within Cameron, Vermilion, Iberia, Terrebonne, Lafourche and Plaquemines Parishes. On all of our properties, there exists a myriad of water control structures which were installed over time by many different entities including the private landowner, local, state and federal governmental entities, and NGOs. All of these structures were installed with the goal of preserving and enhancing the property, and were successful in this regard. However, over time the landscape has changed, which in some instances has precipitated a need to revisit the effectiveness of some of those water control structures.

The scope of this Project involves taking a close look at these historic hydrologic control structures to evaluate their effectiveness and to modify, alter or remove them as warranted. Working in conjunction with the landowner where these structures are located, we believe a positive work plan can be developed and once implemented, positive changes to the landscape can occur.

We believe this project has merit and urge the CWPPRA Technical Committee to recommend that the Task Force authorize full funding and implementation of this project. Thanks in advance for your favorable consideration of this request.

Sincerely,

APACHE LOUISIANA MINERALS LLC

Timothy J. Allen, P.L.S. General Manager

TJA:jpn

Coastal Wetlands Planning, Protection, and Restoration Act 28th Priority Project List Report

Appendix F

Project Status Summary Report from 1st through 28th Priority Project Lists by Lead Agency, Priority List, and Basin

${\bf Coastal\ Wetlands\ Planning,\ Protection,\ and\ Restoration\ Act}$

28th Priority Project List Report

Appendix F

Project Status Summary Report from 1st through 28th Priority Project Lists by Lead Agency, Priority List, and Basin

Table of Contents

	<u>Page</u>
PROJECT SUMMARY REPORT BY PRIORITY LIST	1-2
CONSTRUCTION START/COMPLETION SCHEDULE/CONSTRUCTION ESTIMATE/OBLIGATIONS/EXPENDITURES.	1-9
PROJECT SUMMARY BY PRIORITY LIST / LEAD AGENCY	1-123
Wetlands Conservation Plan	1
0.1 Priority Project List	
Coastwide Reference Monitoring System – Wetlands	2
0.2 Priority Project List	
Monitoring Contingency Fund	4
0.3 Priority Project List	
Storm Recovery Assessment Fund	6
0.4 Priority Project List	
Construction Program Technical Support Services Fund	7
1st Priority Project List	
Barataria Bay Waterway Wetland Creation	8
Bayou Labranche Wetland Creation	8
Lake Salvador Shoreline Protection at Jean Lafitte NHP&P	9
Vermillion River Cutoff Bank Protection	9

	West Bay Sediment Diversion	9
	Isles Dernieres Restoration East Island	11
	Bayou Sauvage NWR Hydrologic Restoration, Phase 1	12
	Cameron Creole Plugs	12
	Cameron Prairie NWR Shoreline Protection	12
	Sabine NWR Erosion Protection	13
	Fourchon Hydrologic Restoration (Deauthorized)	14
	Lower Bayou LaCache Wetland Hydrologic Restoration (Deauthorized)	14
	GIWW to Clovelly Hydrologic Restoration	15
	Vegetative Plantings - Dewitt - Rollover Planting Demonstration (Demo)	
	(deauthorized)	15
	Vegetative Plantings - Falgout Canal Planting Demonstration (Demo)	
	(Complete)	15
	Vegetative Plantings - Timbalier Island Planting Demonstration (Demo)	
	(Complete)	16
	Vegetative Plantings - West Hackberry Planting Demonstration (Demo)	
	(Complete)	16
2nd Pr	riority Project List	
	Clear Marais Bank Protection	18
	West Belle Pass Headland Restoration	18
	Isles Dernieres Island Restoration Trinity Island	19
	Bayou Sauvage NWR Hydrologic Restoration, Phase 2	20
	Atchafalaya Sediment Delivery	21
	Big Island Mining	21
	Pointe Au Fer Canal Plugs	21

	Brown Lake Hydrologic Restoration (Deauthorized)	23
	Caernarvon Diversion Outfall Management	23
	East Mud Lake Marsh Management	23
	Freshwater Bayou Wetland Protection	24
	Fritchie Marsh Restoration	24
	Hwy. 384 Hydrologic Restoration	24
	Jonathan Davis Wetlands Protection	24
	Vermilion Bay/Boston Canal Shore Stabilization	25
3rd Pr	riority Project List	
	Channel Armor Gap Crevasse	26
	MRGO Disposal Area Marsh Protection (Complete)	26
	Pass-a-Loutre Crevasse (Deauthorized)	27
	Red Mud Demonstration (Demo) (Deauthorized)	28
	Whiskey Island Restoration (Complete)	28
	Sabine Refuge Structure Replacement (Hog Island)	29
	Bayou Perot/Bayou Rigolettes Marsh Restoration (Deauthorized)	30
	East Timbalier Island Sediment Restoration, Phase I	30
	Lake Chapeau Sediment Input and Hydrologic Restoration	30
	Lake Salvador Shore Protection Demonstration (Demo) (Complete)	31
	Brady Canal Hydrologic Restoration	32
	Cameron-Creole Maintenance	32
	Cote Blanche Hydrologic Restoration	32
	Southwest Shore White Lake Demo (Deauthorized)	33
	Violet Freshwater Distribution (Deauthorized)	33
	West Points a la Hache Outfall Management	33

White's Ditch Outfall Management (Deauthorized)	33
4th Priority Project List	
Beneficial Use of Hopper Dredged Material Demonstration (Demo)	
(Deauthorized)	35
Grand Bay Crevasse (Deauthorized)	35
Compost Demonstration (Demo) (Deauthorized)	36
East Timbalier Island Sediment Restoration, Phase 2	37
Eden Isles East Marsh Sediment Restoration (Deauthorized)	37
Barataria Bay Waterway West Side Shoreline Protection	38
Bayou L'Ours Ridge Hydrologic Restoration (Deauthorized)	38
Flotant Marsh Fencing Demonstration (Demo) (Deauthorized)	38
Perry Ridge Shore Protection	38
Plowed Terraces Demonstration (Demo) (Complete)	39
5th Priority Project List	
Bayou Chevee Shoreline Protection	40
Bayou Lafourche Siphon (Deauthorized)	41
Grand Bayou Hydrologic Restoration (Deauthorized)	42
Little Vermilion Bay Sediment Trapping	43
Myrtle Grove Siphon (Deauthorized)	43
Freshwater Bayou Bank Stabilization	44
Naomi Outfall Management	44
Raccoon Island Breakwaters Demonstration (Demo)	44
Sweet Lake/Willow Lake Hydrologic Restoration	45
5.1 Priority Project List	
Mississippi River Reintroduction into Bayou Lafourche (Deauthorized	1) 46

6th Priority Project List

	riexible Dustpail Delilo at Head of Passes Delilolistration (Delilo) (Complete)	4
	Marsh Creation East of Atchafalaya River - Avoca Island (Deauthorized)	47
	Marsh Island Hydrologic Restoration	48
	Bayou Bouef Pump Station (Deauthorized)	49
	Lake Boudreaux Freshwater Introduction (Inactive)	50
	Nutria Harvest for Wetland Restoration Demonstration (Demo)	50
	Black Bayou Hydrologic Restoration	52
	Delta Wide Crevasses	52
	Sediment Trapping at "The Jaws"	52
	Barataria Bay Waterway East Side Shoreline Protection	54
	Cheniere au Tigre Sediment Trapping Demonstration (Demo)	54
	Oaks/Avery Canal Hydrologic Restoration, Increment 1	54
	Penchant Basin Natural Resources Plan, Increment 1	54
7th Pi	riority Project List	
	Grande Terre Vegetative Plantings	56
	Pecan Island Terracing	56
	Barataria Basin Landbridge Shoreline Stabilization, Phase 1 and 2	57
	Thin Mat Flotant Marsh Enhancement Demonstration (Demo) (Complete)	57
8th Pi	riority Project List	
	Sabine Refuge Marsh Creation Cycles 1	59
	Sabine Refuge Marsh Creation Cycles 2	59
	Sabine Refuge Marsh Creation Cycles 3	60
	Sabine Refuge Marsh Creation, Cycles 4 and 5	61
	Bayou Bienvenue Pump Station Diversion and Terracing (Deauthorized)	62

Норе	edale Hydrologic Restoration	62
Hum	able Canal Hydrologic Restoration	63
Lake	e Portage Land Bridge	63
Uppe	er Oak River Freshwater Siphon (Deauthorized)	63
9th Priority	Project List	
Fresl	hwater Bayou Bank Stabilization - Belle Isle Canal to Lock (Inactive)	65
Oppo	ortunistic Use of the Bonnet Carre Spillway (Deauthorized)	65
Perio	odic Introduction of Sediment and Nutrients at Selected Diversion Sites	
	Demonstration (Demo) (Deauthorized)	65
Wee	ks Bay MC and SP/Commercial Canal/Freshwater Redirection (Transfer)	.66
LA I	Highway 1 Marsh Creation (Deauthorized)	67
New	Cut Dune and Marsh Restoration	67
Timb	balier Island Dune and Marsh Restoration	67
Fresl	hwater Introduction South of Hwy. 82	69
Man	dalay Bank Protection Demonstration (Demo) (Complete)	70
Casti	ille Pass Channel Sediment Delivery (Deauthorized)	72
Char	ndeleur Islands Marsh Restoration (Complete)	72
East	Grand Terre Islands Restoration (Transfer)	72
Four	Mile Canal Terracing and Sediment Trapping	73
LaBı	ranche Wetlands Terracing, Planting, and Shoreline Protection	
	(Deauthorized)	73
Bara	taria Basin Landbridge Shoreline Protection, Phase 3	74
Blac	k Bayou Culverts Hydrologic Restoration	74
Little	e Pecan Bayou Hydrologic Restoration (Deauthorized)	74
Perry	y Ridge West Bank Stabilization	75

South Lake DeCade Freshwater Introduction	/5
10th Priority Project List	
Benneys Bay Diversion (Deauthorized)	77
Delta Building Diversion at Myrtle Grove (Transfer)	77
Delta Building Diversion North of Fort St. Philip (Deauthorized)	77
Hydrologic Restoration & Vegetative Planting, Lac des Allemands Swamp	79
Lake Borgne Shoreline Protection	79
Delta Management at Fort. St. Phillip	80
East Sabine Lake Hydrologic Restoration	80
Grand-White Lake Landbridge Restoration	81
North Lake Mechant Landbridge Restoration	81
Terrebonne Bay Shore Protection Demonstration (Demo) (Complete)	81
Rockefeller Refuge Gulf Shoreline Stabilization	82
GIWW Bank Restoration of Critical Areas in Terrebonne	83
11th Priority Project List	
River Reintroduction into Maurepas Swamp (Transfer)	84
Ship Shoal: Whiskey West Flank Restoration (Inactive)	84
Dedicated Dredging on the Barataria Basin Landbridge	85
South Grand Chenier Hydrologic Restoration	85
West Lake Boudreaux Shoreline Protection and Marsh Creation	85
Little Lake Shoreline Protection/Dedicated Dredging near Round Lake	87
Pass Chaland to Grand Bayou Pass Barrier Shoreline Protection	87
Pelican Island and Pass La Mer to Chaland Pass	87
Barataria Basin Landbridge Shoreline Protection, Phase 4	89
Coastwide Nutria Control Program	89

Grand Lake Shoreline Protection	89
Raccoon Island Shoreline Protection/Marsh Creation	90
11.1 Priority Project List	
Holly Beach Sand Management	91
12th Priority Project List	
Avoca Island Diversion and Land Building (Deauthorized)	92
Lake Borgne and MRGO Shoreline Protection (Deauthorized)	92
Mississippi River Sediment Trap (Deauthorized)	92
South White Lake Shoreline Protection	93
Bayou Dupont Sediment Delivery System	94
Freshwater Floating Marsh Creation Demonstration (Demo) (Complete)	95
13th Priority Project List	
Shoreline Protection Foundation Improvements Demonstration (Demo)	
(Complete)	97
Spanish Pass Diversion (Deauthorized)	97
Whiskey Island Back Barrier Marsh Creation	98
Goose Point/Point Platte Marsh Creation	99
Bayou Sale Shoreline Protection (Deauthorized)	100
14th Priority Project List	
Riverine Sand Mining/Scofield Island Restoration (Deauthorized)	101
East Marsh Island Marsh Creation	102
South Shore of the Pen Shoreline Protection and Marsh Creation	102
White Ditch Resurrection (Deauthorized)	102
15th Priority Project List	
Bayou Lamoque Freshwater Diversion (Transfer)	104

Venice Ponds Marsh Creation and Crevasses (Inactive)	104
Lake Hermitage Marsh Creation	105
South Pecan Island Freshwater Introduction (Deauthorized)	106
16th Priority Project List	
Southwest LA Gulf Shoreline Nourishment and Protection (Transfe	r)107
Enhancement of Barrier Island Vegetation Demonstration (Demo)	108
Madison Bay Marsh Creation and Terracing (Inactive)	109
West Belle Pass Barrier Headland Restoration Project	109
Alligator Bend Marsh Restoration and Shoreline Protection (Inactiv	re)110
17th Priority Project List	
Bohemia Mississippi River Reintroduction (Deauthorized)	111
South Lake Lery Shoreline and Marsh Restoration	112
Bayou Dupont Ridge Creation and Marsh Restoration	113
Bio-Engineered Oyster Reef Demonstration (Demo)	113
Sediment Containment System for Marsh Creation Demonstration (Demo)114
West Pointe-a la Hache Marsh Creation (Deauthorized)	114
18th Priority Project List	
Bertrandville Siphon (Deauthorized)	116
Grand Liard Marsh and Ridge Restoration	117
Cameron-Creole Freshwater Introduction	118
Central Terrebonne Freshwater Enhancement (Transfer)	118
Non-Rock Alternatives to Shoreline Protection Demonstration (Den	no)119
19th Priority Project List	
Lost Lake Marsh Creation and Hydrologic Restoration	122
Cheniere Ronquille Barrier Island Restoration (Deauthorized)	123

Freshwater Bayou Marsh Creation	124
LaBranche East Marsh Creation	124
20th Priority Project List	
Bayou Bonfouca Marsh Creation	126
Cameron-Creole Watershed Grand Bayou Marsh Creation	126
Terrebonne Bay Marsh Creation - Nourishment (Deauthorized)	126
Coastwide Planting	127
Kelso Bayou Marsh Planting (Transfer)	127
21st Priority Project List	
Northwest Turtle Bay Marsh Creation	129
Cole's Bayou Marsh Restoration	130
Oyster Bayou Marsh Restoration	130
LaBranche Central Marsh Creation	131
22nd Priority Project List	
Bayou Dupont Sediment Delivery-Marsh Creation 3	132
Terracing and Marsh Creation South of Big Mar	133
Cameron Meadows Marsh Creation	134
North Catfish Lake Marsh Creation	135
23rd Priority Project List	
Caminada Headlands Back Barrier Marsh Creation	136
Bayou Grande Cheniere Marsh & Ridge Restoration	137
Island Road Marsh Creation & Nourishment	138
South Grand Chenier marsh Creation-Baker Tract	139
24th Priority Project List	
Shell Reach South Marsh Creation	140

	New Orleans Landbridge Shoreline & Marsh Creation	141
	No Name Bayou Marsh Creation & Nourishment	142
	West Fourchon Marsh Creation & Marsh Nourishment	142
25th P	Priority Project List	
	Caminada Headlands Back Barrier Marsh Creation II	. 144
	East Leeville Marsh Creation & Nourishment	145
	Frichie Marsh Creation & Terracing	145
	Oyster Lake Marsh Creation and Nourishment	145
	Shoreline Protection, Preservation, and Restoration Panel (Demo)	145
	Barataria Bay Rim Marsh Creation	147
26th P	Priority Project List	
	Salvinia Weevil Propagation Facility	148
	St. Catherine Island Marsh Creation & Shoreline Protection	148
	Bayou DeCade Ridge and Marsh Creation	149
	Bayou LaLoutre Ridge and Marsh Creation	150
27th P	Priority Project List	
	Bayou Cane Marsh Creation	151
	Mid Breton Landbridge Marsh Creation and Terracing	151
	Sabine Marsh Creation Cycles 6 & 7	151
	Northeast Turtle Bay Marsh Creation and Critical Area Shoreline Protection	152
28 th Pi	riority Project List	
	Breton Landbridge Marsh Creation	153
	East Delacroix Marsh Creation and Terracing.	153
	Grand Bayou Ridge and Marsh Restoration	153
	Long Point Bayou Marsh Creation	153

PROJECT STATUS SUMMARY REPORT BY BASIN	1-10
(Basin Summary follows the Project Summary by Lead Agency)	1
Atchafalaya Basin	1
Barataria Basin	2
Breton Sound Basin	3
Calcasieu/Sabine Basin	4
Coastal Basins	5
Mississippi River Delta	6
Mermentau	7
Pontchartrain Basin	8
Teche/Vermilion Basin	9
Terrebonne Basin	10
PROJECT SUMMARY ESTIMATES	1-5
(Priority List Summary follows the Project Summary by Basin)	1

COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT Project Summary Report by Priority List

P/L	No. of Projects	Acres	CSA Executed	Under Const.	Const. Completed	Federal Const. Funds Available	Non/Fed Const. Funds Matching Share	Current Approved Estimate	Current Funded Estimate	Obligations To Date	Expenditures To Date
1	14	18,932	14	0	14	\$28,084,900	\$14,234,786	\$86,948,321	\$85,891,947	\$76,734,373	\$76,556,784
2	14	13,090	14	0	14	\$28,173,110	\$14,594,499	\$91,963,522	\$88,125,668	\$76,525,580	\$76,292,065
3	10	11,427	10	0	10	\$29,939,100	\$8,771,322	\$57,278,110	\$50,338,105	\$46,504,799	\$46,078,028
4	4	1,650	4	0	4	\$29,957,533	\$2,202,220	\$13,583,217	\$13,581,726	\$13,075,905	\$13,048,484
5	6	1,907	6	0	6	\$33,371,625	\$2,037,227	\$20,415,683	\$17,031,378	\$15,827,729	\$15,788,304
6	10	9,439	10	0	10	\$39,134,000	\$6,722,155	\$53,407,048	\$53,171,078	\$39,605,746	\$39,348,352
7	4	1,873	4	0	4	\$42,540,715	\$4,669,116	\$31,213,042	\$31,213,042	\$29,763,747	\$29,658,016
8	7	1,529	7	0	7	\$41,864,079	\$5,701,494	\$32,430,250	\$31,845,806	\$27,556,791	\$27,501,485
9	10	2,147	10	1	9	\$47,907,300	\$15,351,967	\$109,104,769	\$95,410,989	\$80,781,357	\$80,488,729
10	9	1,794	9	0	7	\$47,659,220	\$19,767,857	\$139,575,449	\$127,350,228	\$111,308,773	\$82,782,862
11	10	17,941	10	1	9	\$57,332,369	\$43,153,885	\$318,726,345	\$274,442,951	\$243,833,424	\$222,479,919
11.1	1	330	1	0	1	\$0	\$7,065,116	\$14,130,233	\$14,130,233	\$13,999,802	\$13,999,802
12	3	1,170	3	0	3	\$51,938,097	\$6,297,127	\$43,338,276	\$38,983,249	\$54,082,613	\$54,076,608
13	3	708	3	0	3	\$54,023,130	\$7,111,607	\$45,680,048	\$45,373,264	\$39,698,164	\$39,666,160
14	2	275	2	0	2	\$53,054,804	\$7,068,563	\$39,405,387	\$37,292,544	\$35,620,845	\$35,569,845
15	1	447	1	0	1	\$58,059,645	\$5,992,915	\$34,858,396	\$34,409,336	\$34,214,724	\$34,185,117
16	2	305	2	0	2	\$71,402,872	\$7,092,928	\$42,842,415	\$42,644,467	\$26,678,003	\$26,624,901
17	4	595	3	1	3	\$83,286,685	\$11,394,848	\$74,863,876	\$73,782,710	\$70,328,101	\$64,690,873
18	3	588	2	2	1	\$84,916,489	\$8,108,998	\$75,829,152	\$69,872,157	\$65,284,717	\$41,250,469
19	3	1,446	3	0	1	\$79,566,889	\$5,616,638	\$40,123,127	\$36,528,652	\$7,977,714	\$7,373,712
20	3	1,733	3	2	0	\$77,389,442	\$9,969,534	\$69,651,382	\$67,988,811	\$15,787,073	\$10,167,041
21	4	1,936	3	2	0	\$74,239,647	\$9,169,799	\$94,422,352	\$91,394,291	\$52,976,020	\$28,204,793
22	4	1,159	3	0	1	\$75,310,243	\$3,940,650	\$62,144,044	\$60,743,827	\$52,265,445	\$17,903,139
23	4	1,107	1	0	0	\$64,666,970	\$1,915,165	\$42,640,552	\$41,198,855	\$33,257,207	\$4,895,800
24	4	1,312	1	0	0	\$73,630,672	\$1,656,775	\$11,045,165	\$11,045,165	\$7,369,825	\$3,861,388
25	6	1,508	1	0	0	\$75,783,982	\$2,791,778	\$18,611,855	\$18,611,855	\$12,737,978	\$2,217,118
26	4	805	0	0	0	\$74,434,809	\$1,906,695	\$12,711,300	\$9,843,119	\$3,542,772	\$746,847
27	4	1,992	0	0	0	\$75,141,227	\$2,209,886	\$14,732,575	\$14,732,575	\$100,000	\$0
28	4	1,354	0	0	0			\$13,239,163	\$13,239,163	\$0	\$0
Active/Compl Projects	1.57	100,499	130	9	112	\$1,552,809,554	\$240,402,488	\$1,704,915,053	\$1,590,217,190	\$1,287,439,227	\$1,095,456,643
Deauthorized	60	18,492	39	2	0			\$86,471,485	\$80,752,872	\$60,788,178	\$60,798,853

Total Projects	217	118,991	169	11	112	\$1,552,809,554	\$240,402,488	\$1,791,386,538	\$1,670,970,061	\$1,348,227,405	\$1,156,255,49
Cons Plan	1		1	1	0	\$0	\$41,091	\$191,807	\$191,807	\$143,855	\$143,855
CPSSF	1	0	1	1	0	\$0	\$160,843	\$1,598,055	\$1,598,055	\$1,415,104	\$951,466
CRMS	1		1	1	0	\$0	\$15,703,793	\$316,907,558	\$136,907,559	\$84,306,742	\$93,881,327
MCF	1		1	1	0	\$0	\$225,000	\$1,500,000	\$1,500,000	\$666,704	\$666,704
SRAF	1		1	1	0	\$0	\$85,438	\$569,586	\$569,586	\$426,056	\$426,056
Total Construction Program	222	118,991	174	16	112	\$1,552,809,554 \$1,809,6	\$256,457,810 267,364	\$2,112,153,544	\$1,811,737,068	\$1,435,185,867	\$1,252,324,904

Construction	n Ph I Appr	Constru	uction						Construction	
Start FY	Ph II Appr	Start Date	Compl Date	Agency	PL	Acres	Project	Estimate	Obligations	Expenditures
FY2013	10-Jan-2001 A 20-Jan-2010 A	02-May-2013 A	01-Feb-2014 A	NRCS	10	64	GIWW Bank Restoration of Critical Areas in Terrebonne	\$7,919,007.00	\$7,782,764.46	\$7,782,764.46
FY2013	24-Apr-1997 A 28-Oct-2010 A	01-Jun-2013 *	01-Oct-2014 *	FWS	6	266	Lake Boudreaux Freshwater Introduction INACTIVE	\$12,493,289.00	\$11,129.12	\$11,129.12
			FY	Total		330		\$20,412,296.00	\$7,793,893.58	\$7,793,893.58

Construction	n Ph I Appr	Constru	uction						Construction	
Start FY	Ph II Appr	Start Date	Compl Date	Agency	PL	Acres	Project	Estimate	Obligations	Expenditures
FY2014	25-Oct-2007 A 19-Jan-2011 A	21-Apr-2014 A	30-Jun-2015 A	NMFS	17	186	Bayou Dupont Ridge Creation & Marsh Restoration	\$35,077,416.00	\$34,116,961.21	\$34,116,961.21
FY2014	19-Jan-2011 A 22-Jan-2014 *	01-Sep-2014 *	01-Sep-2018 *	NRCS	20	274	Kelso Bayou Marsh Creation TRANSFER	\$0.00	\$0.00	\$0.00
			FY	Total		460		\$35,077,416.00	\$34,116,961.21	\$34,116,961.21

Construction	Ph I Appr	Constru	ıction						Construction	
Start FY	Ph II Appr	Start Date	Compl Date	Agency	PL	Acres	Project	Estimate	Obligations	Expenditures
FY2015	21-Jan-2009 A 21-Jan-2009 A	05-Mar-2015 A	24-Apr-2017 *	NRCS	18	0	Non-Rock Alternatives to Shoreline Protection Demo	\$4,705,689.00	\$4,649,367.29	\$4,649,367.29
FY2015	18-Oct-2006 A	01-Dec-2015 *	01-Jul-2017 *	NMFS	16	334	Madison Bay Marsh Creation and Terracing INACTIVE	\$0.00	\$0.00	\$0.00
			FY	/ Total		334		\$4,705,689.00	\$4,649,367.29	\$4,649,367.29

Construction	n Ph I Appr	Constru	uction						Construction	
Start FY	Ph II Appr	Start Date	Compl Date	Agency	PL	Acres	Project	Estimate	Obligations	Expenditures
FY2016	25-Oct-2007 A 19-Jan-2012 A	31-Jul-2015 A	01-Jun-2018 *	FWS	17	409	South Lake Lery Shoreline and Marsh Restoration	\$28,693,565.00	\$29,030,085.96	\$23,959,642.26
FY2016	24-Jan-2013 A 14-May-2015 A	07-Dec-2015 A	29-Jun-2017 A	EPA	22	118	Bayou Dupont Sediment Delivery- Marsh Creation 3	\$12,339,259.00	\$12,660,808.00	\$11,373,966.40
			FY	Total		527		\$41,032,824.00	\$41,690,893.96	\$35,333,608.66

Construction	Ph I Appr	Constru	uction						Construction	
Start FY	Ph II Appr	Start Date	Compl Date	Agency	PL	Acres	Project	Estimate	Obligations	Expenditures
FY2017	19-Jan-2012 A 22-Jan-2015 A	01-Oct-2016 A	15-Oct-2016 *	NMFS	21	433	Oyster Bayou Marsh Restoration	\$22,734,564.00	\$24,450,400.81	\$20,200,426.75
FY2017	16-Jan-2002 A 15-Feb-2007 A	01-Dec-2016 A	07-Jul-2017 A	NRCS	11	45	Grand Lake Shoreline Protection	\$5,578,845.00	\$5,795,722.00	\$3,945,341.50
FY2017	20-Jan-2010 A 24-Jan-2013 A	25-Jan-2017 A	30-Nov-2018 A	FWS	19	452	Lost Lake Marsh Creation and Hydrologic Restoration	\$28,414,381.00	\$886,364.37	\$823,166.69
FY2017	18-Oct-2006 A 20-Jan-2017 *	30-Jun-2017 *	10-Jul-2018 *	COE	16	888	Southwest LA Gulf Shoreline Nourish &Protect TRANSFER	\$0.00	\$0.00	\$0.00
FY2017	21-Jan-2009 A 22-Jan-2017 *	01-Sep-2017 *	01-Jul-2018 *	NRCS	18	233	Central Terrebonne Freshwater Enhancement TRANSFER	\$0.00	\$0.00	\$0.00
			FY	/ Total		2,051		\$56,727,790.00	\$31,132,487.18	\$24,968,934.94

Construction	Ph I Appr	Constru	uction						Construction	
Start FY	Ph II Appr	Start Date	Compl Date	Agency	PL	Acres	Project	Estimate	Obligations	Expenditures
FY2018	19-Jan-2011 A 22-Jan-2015 A	01-Sep-2017 *	01-Dec-2018 *	FWS	20	476	Cameron-Creole Watershed Grand Bayou Marsh Creation	\$20,600,445.00	\$105,764.52	\$6,691.19
FY2018	10-Jan-2001 A 22-Jan-2016 *	01-Nov-2017 *	31-Mar-2018 *	EPA	10	0	Hydrologic Restoration & Vegetative Planting in the Lac des Allemands Swamp	\$1,715,768.00	\$2,004,218.00	\$47,012.68
FY2018	10-Jan-2001 A	01-Nov-2017 *	15-Feb-2018 *	NMFS	10	256	Rockefeller Refuge Gulf Shoreline Stabilization	\$25,941,244.00	\$27,105,072.64	\$1,212,216.64
FY2018	19-Jan-2012 A 21-Jan-2016 A	01-Apr-2018 *	31-Mar-2019 *	NMFS	21	340	Coles Bayou Marsh Restoration	\$15,921,120.00	\$18,485,690.47	\$70,246.51
FY2018	20-Jan-2010 A 22-Jan-2014 *	01-Jul-2018 *	01-Aug-2019	NRCS	19	279	Freshwater Bayou Marsh Creation	\$0.00	\$0.00	\$0.00
FY2018	20-Jan-2010 A 21-Jan-2018 *	01-Sep-2018 *	01-Sep-2019	NRCS	19	715	LaBranche East Marsh Creation	\$0.00	\$0.00	\$0.00
FY2018	19-Jan-2012 A 21-Jan-2018 *	01-Sep-2018 *	01-Sep-2020	NRCS	21	731	LaBranche Central Marsh Creation	\$0.00	\$0.00	\$0.00
			F	Y Total		2,797		\$64,178,577.00	\$47,700,745.63	\$1,336,167.02

Construction	n Ph I Appr	Constru	uction						Construction	
Start FY	Ph II Appr	Start Date	Compl Date	Agency	PL	Acres	Project	Estimate	Obligations	Expenditures
FY2019	19-Jan-2012 A 12-Jan-2017 A	01-Apr-2019 A	01-Mar-2020	FWS	21	432	Turtle Bay Marsh Creation	\$24,558,643.00	\$35,000.00	\$467.57
FY2019	24-Jan-2013 A 21-Jan-2017 A	21-May-2019	24-Aug-2020	NMFS	22	326	Cameron Meadows Marsh Creation	\$25,799,995.00	\$29,309,974.82	\$195,823.43
			F	Y Total		758		\$50,358,638.00	\$29,344,974.82	\$196,291.00

Construction	Ph I Appr	Const	ruction						Construction	
Start FY	Ph II Appr	Start Date	Compl Date	Agency	PL	Acres	Project	Estimate	Obligations	Expenditures
	21-Jan-2016 A 01-Jan-2019 *	01-Nov-2020	01-Nov-2021	NRCS	25	251	Barataria Bay Rim Marsh Creation	\$0.00	\$0.00	\$0.00
			F	Y Total		251	•	\$0.00	\$0.00	\$0.00

Construction	Ph I Appr	Constru	ıction						Construction	
Start FY	Ph II Appr	Start Date	Start Date Compl Date		PL	Acres	Project	Estimate	Obligations	Expenditures
			Grand T	otal		7,508		\$272.493,230.00	\$196.429.323.67	\$108.395.223.70

COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT

PROJECT STATUS SUMMARY REPORT

06 May 2019

Summary report on the status of CWPPRA projects prepared for the Louisiana Coastal Wetlands Conservation and Restoration Task Force.

Reports enclosed:

Project Summary by Priority List Project Summary by Basin Project Summary Estimates

Information based on data furnished by the Federal Lead Agencies and collected by the Corps of Engineers

Prepared by:

Project Management Division Coastal Restoration Branch U.S. Army Corps of Engineers New Orleans District 7400 Leake Avenue New Orleans, LA 70118

















COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT

Project Status Summary Report by Project Priority List

Actual ****** SCHEDULES ******* ***** ESTIMATES ****** **PROJECT BASIN** PARISH ACRES **CSA Const Start Const End Funded** % Approved **Priority List** Conservation Plan Lead Agency: EPA, REGION 6 State of Louisiana COAST COAST 13-Jun-1995 A 03-Jul-1995 A 21-Nov-1997 * \$191.807 \$191,807 100.0 \$143,855 Wetlands Conservation \$143,855 The date the MIPR was issued to obligate the Federal funds for the development of the plan is used as the construction start date for Plan Status: reporting purposes. Complete. Total Priority List EPA Cons Plan \$191.807 \$191,807 100.0 \$143.855 \$143,855 1 Project(s) 1 Cost Sharing Agreements Executed Construction Started 0 Construction Completed 0 Project(s) Deferred/Deauthorized

\$191,807

\$191,807

100.0

\$143.855 \$143,855

- 1 Project(s)
 - 1 Cost Sharing Agreements Executed
 - 1 Construction Started

Conservation Plan

- 0 Construction Completed
- 0 Project(s) Deferred/Deauthorized

Notes:

PPL Total

- 1. Expenditures based on Corps of Engineers financial data.
- 2. Date codes: A = Actual date * = Behind schedule
- 3. Percent codes: ! = 125% of baseline estimate exceeded

06-May-2019 Page 1

Obligations/

Expenditures

PROJECT

COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT

Project Status Summary Report by Project Priority List

******** SCHEDULES ******* **** ESTIMATES ****** Obligations/
CSA Const Start Const End Approved Funded % Expenditures

Priority List 0.1 Lead Agency: USGS, U.S. Geological Survey

ACRES

PARISH

Coastwide Reference Monitoring System -Wetlands COAST COAST

13-Feb-2013 A 14-Aug-2003 A

\$316,907,558

\$136,907,559

43.2 \$84,306,742

\$93,881,327

06-May-2019 Page 2

Status:

BASIN

The status of the CRMS network and data collection is as follows: all sites (391) have approved landrights and are fully constructed. Data collection is occurring at all sites. All data are posted within the DNR SONRIS database. Available data includes hydrologic, vegetation, elevation/accretion, and soil properties and coastwide aerial photography and satellite imagery. Ten CRMS sites were equipped with real time continuous hydrologic gages in September 2010. A CRMS website has been established as an offshoot of LaCoast.gov (http://www.lacoast.gov/crms2/Home.aspx). The CRMS website provides graphing, visualizations, and data download functionality. The website is designed to facilitate easy access to data and products.

CRMS analytical teams, including agency and academic personnel, were established for landscape, hydrology, vegetation, soils, and data delivery. The teams have developed ecological indices in consultation with the CWPPRA Monitoring Work Group. The ecological indices are incorporated in the CRMS report card which was released in 2011 and is accessed through the CRMS website. The website continues to evolve to support the data and tools that are developed through the CRMS program.

CRMS data are being used in the Operations, Maintenance, and Monitoring Reports for CWPPRA projects and will be incorporated into the 2012 CWPPRA Report to U.S. Congress to evaluate project effectiveness. Several articles have been submitted for publication and are in peer review, but the following documents have been published:

Coastwide Reference Monitoring System (CRMS): U.S. Geological Survey Fact Sheet 2010-3018, 2 p. http://pubs.usgs.gov/fs/2010/3018/.

Cretini, K.F., and Steyer, G.D. 2011, Floristic Quality Index -- An assessment tool for restoration projects and monitoring sites in coastal Louisiana: U.S. Geological Survey Fact Sheet 2011-3044, 4 p. http://pubs.usgs.gov/fs/2011/3044/.

Cretini, K.F, Visser, J.M., Krauss, K.W., and Steyer, G.D. 2012. Development and use of a floristic quality index for coastal Louisiana marshes. Environmental Monitoring and Assessment. 184(4):2389-2403.

- 1. Expenditures based on Corps of Engineers financial data.
- 2. Date codes: A = Actual date * = Behind schedule
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COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT

06-May-2019 Page 3

Actual

Project Status Summary Report by Project Priority List

				*****	*** SCHEDULES *	*****	******* I	Obligations/			
PROJE	ECT B	ASIN	PARISH	ACRES	CSA	Const Start	Const End	Approved	Funded	%	Expenditures
	Total Priority List	USGS	0.1					\$316,907,558	\$136,907,559	43.2	\$84,306,742 \$93,881,327
	1 Project(s)										
	1 Cost Sharing Agre	ements E	xecuted								
	1 Construction Start	ed									
	0 Construction Com	pleted									
	0 Project(s) Deferre	d/Deautho	orized								
PPL Total	0.1							\$316,907,558	\$136,907,559	43.2	\$84,306,742 \$93,881,327

- 1 Project(s)
- 1 Cost Sharing Agreements Executed
- 1 Construction Started
- 0 Construction Completed
- 0 Project(s) Deferred/Deauthorized

- 1. Expenditures based on Corps of Engineers financial data.
- 2. Date codes: A = Actual date * = Behind schedule
- 3. Percent codes: ! = 125% of baseline estimate exceeded

COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT

Project Status Summary Report by Project Priority List

06-May-2019 Page 4

Actual

				******	** SCHEDULES	*****	****** ES	TIMATES ****	****	Obligations/
PROJECT	BASIN	PARISH	ACRES	CSA	Const Start	Const End	Approved	Funded	%	Expenditures
Priority List 0.2		Lea	d Agency:	USGS, U.S.	Geological Sur	vey				
Monitoring Contingency	COAST	COAST		22-Sep-2004 A	08-Dec-1999 A		\$1,500,000	\$1,500,000	100.0	\$666,704
Fund	Status:	On July 10, 2 multiple project Island project On October 9 water survey	d Big	\$666,704						
Total Priori	ty List USGS	0.2					\$1,500,000	\$1,500,000	100.0	\$666,704 \$666,704

- 1 Project(s)
- 1 Cost Sharing Agreements Executed
- 1 Construction Started
- 0 Construction Completed
- 0 Project(s) Deferred/Deauthorized

- 1. Expenditures based on Corps of Engineers financial data.
- 2. Date codes: A = Actual date * = Behind schedule
- 3. Percent codes: ! = 125% of baseline estimate exceeded

COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT

06-May-2019 Page 5

Project Status Summary Report by Project Priority List

			· ·	*****	*** SCHEDULES *	*****	****** E	STIMATES **	*****	Actual Obligations/
PROJECT	BASIN	PARISH	ACRES	CSA	Const Start	Const End	Approved	Funded	%	Expenditures
PPL Total 0.2							\$1,500,000	\$1,500,000	100.0	\$666,704 \$666,704

- 1 Project(s)
- 1 Cost Sharing Agreements Executed
- 1 Construction Started
- 0 Construction Completed
- 0 Project(s) Deferred/Deauthorized

- 1. Expenditures based on Corps of Engineers financial data.
- 2. Date codes: A = Actual date * = Behind schedule
- 3. Percent codes: ! = 125% of baseline estimate exceeded

COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT

Project Status Summary Report by Project Priority List

06-May-2019 Page 6

Actual

					******* SCHEDULES ********			****** ESTIMATES ******		*****	Obligations/
PROJEC	CT	BASIN	PARISH	ACRES	CSA	Const Start	Const End	Approved	Funded	%	Expenditures
Priority Li	ist 0.3		Lea	nd Agency:	USGS, U.S.	Geological Sur	vey				
Storm Recovery Assessment Fur		COAST Status:	COAST On Novembe	er 5, 2008, the C	21-Aug-2007 A	18-Oct-2006 A	onal \$266,227.00 to c	\$569,586	\$569,586	100.0	\$426,056 \$426,056
		Sums	Gustav and Il	ke. Amendment		ooperative agreemen	tt was submitted by U				
	Total Priority I	List USGS	0.3					\$569,586	\$569,586	100.0	\$426,056 \$426,056
	 Project(s) Cost Sharing A Construction S Construction C Project(s) Defe 	tarted completed									
	0.3							\$569,586	\$569,586	100.0	\$426,056 \$426,056

- 1 Project(s)
- 1 Cost Sharing Agreements Executed
- 1 Construction Started
- 0 Construction Completed
- 0 Project(s) Deferred/Deauthorized

- 1. Expenditures based on Corps of Engineers financial data.
- 2. Date codes: A = Actual date * = Behind schedule
- 3. Percent codes: ! = 125% of baseline estimate exceeded

COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT

Project Status Summary Report by Project Priority List

PROJEC	СТ	BASIN	PARISH	ACRES	-	** SCHEDULES * Const Start	-	******* E Approved	STIMATES *** Funded	***** %	Actual Obligations/ Expenditures
Priority L	ist 0.4		Lea	nd Agency:	USGS, U.S.	Geological Surv	rey				
Construction Pr Technical Supp Services Fund		COAST Status:	COAST	0	19-Oct-2011 A	19-Oct-2011 A		\$1,598,055	\$1,598,055	100.0	\$1,415,104 \$951,466
	Total Priority Project(s) Cost Sharing Construction Construction Project(s) Def	Agreements Ex Started Completed		0				\$1,598,055	\$1,598,055	100.0	\$1,415,104 \$951,466
PPL Total	0.4					0		\$1,598,055	\$1,598,055	100.0	\$1,415,104 \$951,466

- 1 Project(s)
- 1 Cost Sharing Agreements Executed
- 1 Construction Started
- 0 Construction Completed
- 0 Project(s) Deferred/Deauthorized

Notes:

- 1. Expenditures based on Corps of Engineers financial data.
- 2. Date codes: A = Actual date * = Behind schedule
- 3. Percent codes: ! = 125% of baseline estimate exceeded

06-May-2019 Page 7

COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT

06-May-2019 Page 8

Actual

Project Status Summary Report by Project Priority List

				******	****** SCHEDULES ******			****** ESTIMATES ******		
PROJECT	BASIN	PARISH	ACRES	CSA	Const Start	Const End	Approved	Funded	%	Expenditures
Priority List 1		Lea	nd Agency:	COE, CORP	S OF ENGINE	EERS				
Barataria Bay Waterway Wetland Creation	BARA Status:	1996, at a cos removed from maintenance beneficial use the local spor	st of \$945,678. In the remaining cycles. The US e sites along the	Remaining funds may marsh creation sites ACE, LADNR, and BBWW. Additional oring team. There is	ay be used to clear now, these areas will be LDWF are currently all monitoring of the	15-Oct-1996 A Dject and the construct marsh creation sites of the incorporated into the ty pursuing an administ Queen Bess site was of maintenance plan for the	oyster leases. If oyster Corp's O&M dispostrative process to ide discontinued in 2002	ter-related conflicts sal plan for the nex entify and prioritize on the recommend	s are t three e lation of	\$1,167,832 \$1,167,832
Bayou Labranche Wetland Creation	PONT	STCHA	203	17-Apr-1993 A	06-Jan-1994 A	07-Apr-1994 A	\$3,717,914	\$3,717,914	100.0	\$3,711,571 \$3,711,571

Status:

Contract awarded to T. L. James Co. (Dredge "Tom James") for dredging approximately 2,500,000 cy of Lake Pontchartrain sediments and placing in marsh creation area. Contract final inspection was performed on April 7, 1994. Site visit by Task Force took place on April 13, 1994. The project is being monitored; the majority of the monitoring has already been completed and is proceeding in accordance as originally planned for this project. The goal of creating a shallow water habitat conducive to the natural establishment of wetland vegetation seems to have been partially met. As sediment continues to consolidate and water is maintained in the area, upland vegetation is expected to be supplanted by more oblilgate wetland species. One project goal is to increase the marsh:open water ratio in the project area to a minimum of 70% emergent marsh to 30% open water after 5 years following project completion. As of 1997, the project area contained about 82% land and 18% water, which is higher than the minimum goal. The consolidation of dredged material over time has reached an elevation that appears to sustain the 70% (land and marsh) component of the project area. The soil properties and the vegetation community of the project have developed into characteristic wetland habitat for the region. The project will be monitored for 20 years. There is no O&M plan for this project; the project's 20 year life expires on 7 Apr 2014.

- 1. Expenditures based on Corps of Engineers financial data.
- 2. Date codes: A = Actual date * = Behind schedule
- 3. Percent codes: ! = 125% of baseline estimate exceeded

COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT

06-May-2019 Page 9

Actual

Project Status Summary Report by Project Priority List

				******* SCHEDULES *******			****** ESTIMATES ******		****	Obligations/
PROJECT	BASIN	PARISH	ACRES	CSA	Const Start	Const End	Approved	Funded	%	Expenditures
Lake Salvador Shoreline	BARA	JEFF		29-Oct-1996 A	01-Jun-1995 A	21-Mar-1996 A	\$60,375	\$60,375	100.0	\$60,375
Protection at Jean Lafitte NHP&P	Status:					rce meeting. The Tasl for the design of the pr		expenditure of up	to	\$60,375
			on contract.			in May 1996 to resolv 996 for \$610,000 to I				
		Complete. The	nis project wa	s design only.						
Vermilion River Cutoff	TECHE	VERMI	65	17-Apr-1993 A	10-Jan-1996 A	11-Feb-1996 A	\$2,047,479	\$2,047,479	100.0	\$2,011,627
Bank Protection	Status:	sediment reter	ntion fence or	the west bank is still	l undetermined.	ast bank of the cutoff to	-	vetlands. The need	d for the	\$2,011,627
		The Task For	ce approved a	revised project estim	nate of \$2,500,000; h	nowever, current estim	nate is less.			
				e easements was requ s completed in Februa		lear ownership titles a	nd significantly leng	thened the project		
		Complete.								
W. D. G.P.	DELTA	DI A O	0.021	20. 4 2002 4	10.5. 2002.4	20 N 2002 A	Φ50 0.62 502	Φ50 062 502	100.0	ф. д. 20.c. co2
West Bay Sediment Diversion	DELTA	PLAQ	9,831	29-Aug-2002 A	10-Sep-2003 A	28-Nov-2003 A	\$50,863,503	\$50,863,503	100.0	\$44,396,693 \$44,396,693
	Status:	###########	#####							,,

- 1. Expenditures based on Corps of Engineers financial data.
- 2. Date codes: A = Actual date * = Behind schedule
- 3. Percent codes: ! = 125% of baseline estimate exceeded

COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT

Project Status Summary Report by Project Priority List

06-May-2019 Page 10

		Ü	*****	*** SCHEDULES *	*****	***** ES	Actual Obligations/			
PROJECT	BASIN	PARISH	ACRES	CSA	Const Start	Const End	Approved	Funded	%	Expenditures
То	tal Priority List COE	1	10,544				\$57,857,103	\$57,857,103	100.0	\$51,348,098 \$51,348,098

- 5 Project(s)
- 5 Cost Sharing Agreements Executed
- 5 Construction Started
- 5 Construction Completed
- 0 Project(s) Deferred/Deauthorized

- 1. Expenditures based on Corps of Engineers financial data.
- 2. Date codes: A = Actual date * = Behind schedule
- 3. Percent codes: ! = 125% of baseline estimate exceeded

COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT

CSA

Lead Agency: EPA, REGION 6

Project Status Summary Report by Project Priority List

Actual ****** SCHEDULES ******* ***** ESTIMATES ****** Obligations/ **Const Start Const End Funded** % **Expenditures** Approved

Priority	List	1

PROJECT

TERRE **TERRE** 9 Isles Dernieres 17-Apr-1993 A 16-Jan-1998 A 15-Jun-1999 A \$8,792,416 \$8,792,416 100.0 \$8,664,422 Restoration East Island \$8,664,422

This phase of the Isles Dernieres restoration project was combined with Isles Dernieres, Phase I (Trinity Island), a priority list 2 project. Status: Additional funds to cover the increased construction cost on lowest bid received were approved at the January 16, 1998 Task Force

meeting.

PARISH

Construction start was January 16, 1998. Hydraulic dredging was completed September 1998. Vegetation planting was completed June

1999.

Total Priority List EPA

9

ACRES

\$8,792,416

\$8,792,416

100.0

\$8,664,422 \$8,664,422

06-May-2019 Page 11

- 1 Project(s)
- 1 Cost Sharing Agreements Executed

BASIN

- 1 Construction Started
- Construction Completed
- 0 Project(s) Deferred/Deauthorized

- 1. Expenditures based on Corps of Engineers financial data.
- 2. Date codes: A = Actual date * = Behind schedule
- 3. Percent codes: ! = 125% of baseline estimate exceeded

COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT

Project Status Summary Report by Project Priority List

06-May-2019 Page 12

Actual

				*****	****** SCHEDULES *******			****** ESTIMATES ******		
PROJECT	BASIN	PARISH	ACRES	CSA	Const Start	Const End	Approved	Funded	%	Expenditures
Priority List 1		Lea	d Agency:	FWS, FISH	& WILDLIFE	SERVICE				
Bayou Sauvage National	PONT	ORL	1,550	17-Apr-1993 A	01-Jun-1995 A	30-May-1996 A	\$1,680,193	\$1,680,193	100.0	\$1,653,436
Wildlife Refuge Hydro Restoration, Phase 1	Status:		•	•	•	ntenance Plan was app Protection and Restor			e lead	\$1,485,847
						A-constructed pumpir to accommodate the la				
Cameron Creole Plugs	CA/SB	CAMER	865	17-Apr-1993 A	01-Oct-1996 A	28-Jan-1997 A	\$2,129,205	\$1,184,669	55.6	\$1,144,505 \$1,144,505
	Status:					1997. The Fish and Watenance Plan in 2002.				
Cameron Prairie National Wildlife Refuge Shoreline	MERM	CAMER	247	17-Apr-1993 A	19-May-1994 A	09-Aug-1994 A	\$1,227,123	\$1,227,123	100.0	\$1,061,657 \$1,061,657
Protection Protection	Status:	maintenance l	has been neede e rock was obs	ed and \$39,963 expense scured by vegetation.	nded on O&M inspo . The rock dike is no	made in the near future ections. The Corps inso the within the GIWW note rock dike is in good	stalled warning signs avigation channel. T	in 2001 due to na	vigation	\$1,001,037
				r rock allowing water hose low areas were	-	ted during the March 2 aspections.	2012 O&M inspectio	n, but there was no	o need of	

- 1. Expenditures based on Corps of Engineers financial data.
- 2. Date codes: A = Actual date * = Behind schedule
- 3. Percent codes: ! = 125% of baseline estimate exceeded

COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT

Project Status Summary Report by Project Priority List

06-May-2019 Page 13

			- 10 ,000 %	******* SCHEDULES ********				****** ESTIMATES ******		
PROJECT	BASIN	PARISH	ACRES	CSA	Const Start	Const End	Approved	Funded	%	Expenditures
Sabine National Wildlife Refuge Erosion Protection	CA/SB	CAMER	5,542	17-Apr-1993 A	24-Oct-1994 A	01-Mar-1995 A	\$1,602,656	\$1,602,656	100.0	\$1,309,987 \$1,309,987
	Status:	performed wi	The project was closed March 2015. No maintenance has been needed within the project's 20-year life performed with CWPPRA funds. The end of the project's 20-year CWPPRA life was March 2015. To 2014, upon the recommendation of project sponsors, approved project close out upon reaching its 20-year CWPPRA life was March 2015.					PRA Task Force or		φ1,307,701
Total Priori	ity List FWS	1	8,204				\$6,639,177	\$5,694,641	85.8	\$5,169,585 \$5,001,996

- 4 Project(s)
- 4 Cost Sharing Agreements Executed
- 4 Construction Started
- 4 Construction Completed
- 0 Project(s) Deferred/Deauthorized

- 1. Expenditures based on Corps of Engineers financial data.
- 2. Date codes: A = Actual date * = Behind schedule
- 3. Percent codes: ! = 125% of baseline estimate exceeded

COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT

Project Status Summary Report by Project Priority List

Actual ****** FCTIMATEC ****** Obligations/

06-May-2019 Page 14

				*****	******* SCHEDULES *******			****** ESTIMATES ******		
PROJECT	BASIN	PARISH	ACRES	CSA	Const Start	Const End	Approved	Funded	%	Expenditures
Priority List 1		Lea	d Agency:	NMFS, NAT	ΓΙΟΝΑL MARI	NE FISHERIES	SERVICE			
Fourchon Hydrologic Restoration DEAUTHORIZED	TERRE Status:	conducted by	the Port and the general public	ey did not wish to		personnel that any ad ed because they questi entation.				\$7,703 \$7,703
Lower Bayou LaCache Hydrologic Restoration DEAUTHORIZED	TERRE Status:	two east-west	connections be mmending deau	tween Bayou Petit	Caillou and Bayou T	project area, users stree Cerrebonne. NMFS arded the letter to COI	received a letter fror	n LA DNR, dated		\$99,625 \$99,625
Total Prior	ity List NMFS	1					\$107,328	\$107,328	100.0	\$107,328 \$107,328

- 2 Project(s)
- 1 Cost Sharing Agreements Executed
- 0 Construction Started
- 0 Construction Completed
- 2 Project(s) Deferred/Deauthorized

- 1. Expenditures based on Corps of Engineers financial data.
- 2. Date codes: A = Actual date *= Behind schedule
- 3. Percent codes: ! = 125% of baseline estimate exceeded

COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT

Project Status Summary Report by Project Priority List

06-May-2019 Page 15

Actual

				*****	******* SCHEDULES *******			****** ESTIMATES ******			
PROJECT	BASIN	PARISH	ACRES	CSA	Const Start	Const End	Approved	Funded	%	Expenditures	
Priority List 1		Lea	nd Agency:	NRCS,							
GIWW to Clovelly Hydrologic Restoration	BARA	LAFOU	175	17-Apr-1993 A	21-Apr-1997 A	31-Oct-2000 A	\$12,896,358	\$12,784,520	99.1	\$10,789,002 \$10,779,002	
,	Status:	began May 1, one plug, beg	, 1997 and com	npleted November 30 2000 and completed), 1997, at a cost of \$	6646,691. The second	ne first contract to install most of the weir structures, second contract to install bank protection, one weir and 400,000. All project construction is complete. O&M				
Vegetative Plantings -	MERM	VERMI		17-Apr-1993 A	11-Jul-1994 A		\$92,147	\$92,147	100.0	\$92,147 \$92,147	
Dewitt-Rollover Planting Demo DEAUTHORIZED	Status:	Sub-project of the Vegetative Plantings project.									
		Complete and	l deauthorized.								
Vegetative Plantings -	TERRE	TERRE	0	17-Apr-1993 A	30-Aug-1996 A	30-Dec-1996 A	\$206,523	\$206,523	100.0	\$206,523	
Falgout Canal Planting Demo COMPLETE	Status:	Sub-project o	of the Vegetativ	ve Plantings project.	Wave-stilling device	ces are in place. Vege	etative plantings are i	in place.		\$206,523	

Notes:

1. Expenditures based on Corps of Engineers financial data.

Complete.

- 2. Date codes: A = Actual date * = Behind schedule
- 3. Percent codes: ! = 125% of baseline estimate exceeded

COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT

06-May-2019 Page 16

Actual

Project Status Summary Report by Project Priority List

				******* SCHEDULES *******			***** ES	Obligations/				
PROJECT	BASIN	PARISH	ACRES	CSA	Const Start	Const End	Approved	Funded	%	Expenditures		
Vegetative Plantings - Timbalier Island Planting	TERRE	TERRE	0	17-Apr-1993 A	15-Mar-1995 A	30-Jul-1996 A	\$300,492	\$300,492	100.0	\$300,492 \$300,492		
Demo COMPLETE	Status:	Sub-project of	Sub-project of the Vegetative Plantings project.									
		Complete.										
Vegetative Plantings -	CA/SB	CAMER	0	17-Apr-1993 A	15-Apr-1993 A	30-Mar-1994 A	\$256,251	\$256,251	100.0	\$256,251		
West Hackberry Planting Demo COMPLETE	Status:	Sub-project of	f the Vegetati	ve Plantings project.						\$256,251		
		Complete.										
Total Priori	ty List NRCS	1	175				\$13,751,771	\$13,639,933	99.2	\$11,644,415 \$11,634,415		

- 5 Project(s)
- 5 Cost Sharing Agreements Executed
- 5 Construction Started
- 4 Construction Completed
- 1 Project(s) Deferred/Deauthorized

- 1. Expenditures based on Corps of Engineers financial data.
- 2. Date codes: A = Actual date * = Behind schedule
- 3. Percent codes: ! = 125% of baseline estimate exceeded

COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT

Project Status Summary Report by Project Priority List

06-May-2019 Page 17

Actual

				*****	*** SCHEDULES *	*****	****** F	Obligations/		
PROJECT	BASIN	PARISH	ACRES	CSA	Const Start	Const End	Approved	Funded	%	Expenditures
PPL Total 1				18	8,932		\$87,147,796	\$86,091,422	98.8	\$76,933,849 \$76,756,259

- 17 Project(s)
- 16 Cost Sharing Agreements Executed
- 15 Construction Started
- 14 Construction Completed
- 3 Project(s) Deferred/Deauthorized

- 1. Expenditures based on Corps of Engineers financial data.
- 2. Date codes: A = Actual date * = Behind schedule
- 3. Percent codes: ! = 125% of baseline estimate exceeded

COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT

06-May-2019 Page 18

Actual

Project Status Summary Report by Project Priority List

				******* SCHEDULES *******			***** ESTIMATES ******			Obligations/		
PROJECT	BASIN	PARISH	ACRES	CSA	Const Start	Const End	Approved	Funded	%	Expenditures		
Priority List 2		Lea	d Agency:	COE, CORP	S OF ENGINE	ERS						
Clear Marais Bank	CA/SB	CALCA	1,067	29-Apr-1996 A	29-Aug-1996 A	03-Mar-1997 A	\$3,267,476	\$3,267,476	100.0	\$2,967,700		
Protection	Status:	needed (based	The original construction estimate was low, based on the proposed plan in that the rock quantity estimate was less than half of the quantity needed (based on the original design), and the estimate did not include a floatation channel needed for construction. This accounts for most of the cost increase shown. The current estimate is based on the original rock dike design and costs about \$89/foot.									
		Complete.										
West Belle Pass Headland	TERRE	LAFOU	474	27-Dec-1996 A	10-Feb-1998 A	15-Aug-1998 A	\$6,826,754	\$6,826,754	100.0	\$6,656,318		
Restoration	Status:	Hennington a shoreline prot area perimete copies are ava	nd Kaitlyn Car ection and rock r; closures #2 & ailable upon rec	riere of USACE-M\ c closures #4 & 5 alo c 3 were not include quest. Project is fund	VN. Constructed feat ong Bayou Lafourch ed in the 2016 inspec	es included Glen Curc tures inspected include the and Belle Pass. Inter- tion due to their boat & meeting project goan. gov website.	ed the vinyl bulkhead rior marsh areas wer inaccessibility. Phot	d Closure #1, the re e viewed from the ographs were taken	ock project n and	\$6,656,318		
Total Priority	List COE	2	1,541				\$10,094,230	\$10,094,230	100.0	\$9,624,018 \$9,624,018		

- 2 Project(s)
- 2 Cost Sharing Agreements Executed
- 2 Construction Started
- 2 Construction Completed
- 0 Project(s) Deferred/Deauthorized

- 1. Expenditures based on Corps of Engineers financial data.
- 2. Date codes: A = Actual date * = Behind schedule
- 3. Percent codes: ! = 125% of baseline estimate exceeded

COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT

Project Status Summary Report by Project Priority List

****** SCHEDULES ******* ***** ESTIMATES ****** Obligations/ **PROJECT BASIN PARISH** ACRES **CSA Const Start Const End Funded** % **Expenditures** Approved **Priority List 2** Lead Agency: EPA, REGION 6 TERRE Isles Dernieres TERRE 109 17-Apr-1993 A 27-Jan-1998 A 15-Jun-1999 A \$10,804,974 \$10,804,974 100.0 \$10,799,102 Restoration Trinity Island Costs increased due to construction bids significantly greater than projected in plans and specifications. Additional funds to cover the Status: increased project construction/dredging cost were approved at the January 16, 1998 Task Force meeting. The 30' hydraulic dredge, the Tom James, mobilized at East Island on about January 27, 1998. Dredging was completed in September 1998. Vegetation plantings was completed June 1999.

- 1 Project(s)
- 1 Cost Sharing Agreements Executed

109

- 1 Construction Started
- 1 Construction Completed

Total Priority List EPA

0 Project(s) Deferred/Deauthorized

Notes:

- 1. Expenditures based on Corps of Engineers financial data.
- 2. Date codes: A = Actual date * = Behind schedule
- 3. Percent codes: ! = 125% of baseline estimate exceeded

06-May-2019 Page 19

Actual

\$10,799,102

\$10,799,102 \$10,799,102

\$10,804,974

\$10,804,974

100.0

COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT

Project Status Summary Report by Project Priority List

06-May-2019 Page 20

Actual ****** SCHEDULES ******* ***** ESTIMATES ****** Obligations/ **PROJECT BASIN** PARISH ACRES **CSA Const Start Const End Funded** % **Expenditures** Approved Lead Agency: FWS, FISH & WILDLIFE SERVICE **Priority List 2** Bayou Sauvage National PONT ORL 1.280 30-Jun-1994 A 15-Apr-1996 A 28-May-1997 A \$1,692,552 \$1,692,552 100.0 \$1,538,921 Wildlife Refuge Hydro \$1,488,017 Construction was completed on March 18, 1997 and accepted at a final inspection on May 28, 1997. The Operation and Maintenance Restoration, Phase 2 Status: Plan was approved in October 2004. The FWS is the lead O&M agency for this project. The Corps of Engineers removed the two 33-inch diameter CWPPRA-constructed pumping stations in 2010 and replaced them in December 2011. This was done because larger pumps were needed to accommodate the larger hurricane protection levees modified in 2011. Total Priority List FWS 1.280 \$1,692,552 \$1,692,552 100.0 \$1,538,921 \$1,488,017

- 1 Project(s)
- 1 Cost Sharing Agreements Executed
- 1 Construction Started
- 1 Construction Completed
- 0 Project(s) Deferred/Deauthorized

- 1. Expenditures based on Corps of Engineers financial data.
- 2. Date codes: A = Actual date *= Behind schedule
- 3. Percent codes: ! = 125% of baseline estimate exceeded

COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT

Project Status Summary Report by Project Priority List

				******* SCHEDULES *******				****** ESTIMATES ******			
PROJECT	BASIN	PARISH	ACRES	CSA	Const Start	Const End	Approved	Funded	%	Obligations/ Expenditures	
Priority List 2		Lea	nd Agency:	NMFS, NAT	TONAL MAR	INE FISHERIES	S SERVICE				
Atchafalaya Sediment Delivery	ATCH Status:	has partially l bathymetric s dredge mater	been met. Limi survey is currer ial channel exc	ited bathymetric data ntly being discussed t	is suggesting partia for both AT-02 and	21-Mar-1998 A als to increase the distraction of t	of Natal Pass and Ca of delta lobe islands	astille Pass. More with beneficially u	extensive using	\$2,285,610 \$2,285,610	
Big Island Mining	ATCH Status:	J	•	01-Aug-1994 A oproved by the Task I ete. First costs account		08-Oct-1998 A 16, 1998 meeting.	\$7,003,102	\$7,003,102	100.0	\$6,860,752 \$6,860,752	
Point Au Fer Canal Plugs	TERRE Status:		2 & 3 and the p	•	•	08-May-1997 A ith maintenance recom he shoreline. This con			-	\$3,309,403 \$3,306,405	

Notes:

- 1. Expenditures based on Corps of Engineers financial data.
- 2. Date codes: A = Actual date * = Behind schedule
- 3. Percent codes: ! = 125% of baseline estimate exceeded

06-May-2019 Page 21

Actual

COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT

Project Status Summary Report by Project Priority List

06-May-2019 Page 22

Actual

				******	SCHEDULES ***	***** EST	***	Obligations/		
PROJECT	BASIN	PARISH	ACRES	CSA	Const Start	Const End	Approved	Funded	%	Expenditures
	Total Priority List NMFS	2	4,167				\$14,972,916	\$14,972,916	100.0	\$12,455,764 \$12,452,767

- 3 Project(s)
- 3 Cost Sharing Agreements Executed
- 3 Construction Started
- 3 Construction Completed
- 0 Project(s) Deferred/Deauthorized

- 1. Expenditures based on Corps of Engineers financial data.
- 2. Date codes: A = Actual date * = Behind schedule
- 3. Percent codes: ! = 125% of baseline estimate exceeded

COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT

Project Status Summary Report by Project Priority List

06-May-2019 Page 23

Actual ****** SCHEDULES ******* ***** ESTIMATES ****** Obligations/ **PROJECT BASIN** PARISH ACRES **CSA Const Start** Const End **Funded** % **Expenditures** Approved **Priority List 2** Lead Agency: NRCS, \$1,097,828 \$1,097,828 Brown Lake Hydrologic CA/SB CAMER 28-Mar-1994 A 100.0 \$1.097.828 Restoration \$1,097,828 Landowner support for the project has been withdrawn due to changes in project features therefore project team moved to deauthorize DEAUTHORIZED Status: project. Task Force voted to approve deathorization in Fall 2009. Caernaryon Diversion BRET **PLAO** 802 13-Oct-1994 A 01-Jun-2001 A 19-Jun-2002 A \$4,536,000 \$4,536,000 100.0 \$4,106,236 Outfall Management \$4,074,360 This project was proposed for deauthorization in December 1996, but was referred for revisions at the request of the landowners and Status: DNR. The project was modified. The final plan/EA has been prepared. Bids were opened 23 February 2001. The low bid exceeded the funds available. Task Force approved additional funds. Construction complete June 19, 2002. East Mud Lake Marsh CA/SB **CAMER** 1,520 24-Mar-1994 A 01-Oct-1995 A 15-Jun-1996 A \$6,036,741 \$6,034,533 100.0 \$5,180,963 Management \$5,158,286 Bid opening was August 8, 1995 and contract awarded to Crain Bros. Construction started in early October 1995. Water control Status:

Construction complete. O&M plan executed. Maintenance needs on a water control structure is being evaluated.

structures are installed and the vegetation installed in the summer of 1996.

- 1. Expenditures based on Corps of Engineers financial data.
- 2. Date codes: A = Actual date * = Behind schedule
- 3. Percent codes: ! = 125% of baseline estimate exceeded

COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT

06-May-2019 Page 24

Actual

Project Status Summary Report by Project Priority List

				*****	** SCHEDULES	*****	****** ES	STIMATES ****	****	Obligations/
PROJECT	BASIN	PARISH	ACRES	CSA	Const Start	Const End	Approved	Funded	%	Expenditures
Freshwater Bayou Wetland Protection	MERM	VERMI	1,593	17-Aug-1994 A	29-Aug-1994 A	15-Aug-1998 A	\$9,871,228	\$6,035,582	61.1	\$5,716,434 \$5,703,670
	Status:		is included as			d from the Wax Lake (tract for the Wax Lake				\$5,705,070
		Project constr	ruction is com	nplete. Maintenance	contract underway t	o repair rock dike.				
Fritchie Marsh Restoration	PONT	STTAM	1,040	21-Feb-1995 A	01-Nov-2000 A	01-Mar-2001 A	\$2,201,674	\$2,201,674	100.0	\$1,891,000
	Status:	O&M plan ex	xecuted Janua	ry 29, 2003.						\$1,878,823
Highway 384 Hydrologic	CA/SB	CAMER	150	13-Oct-1994 A	01-Oct-1999 A	07-Jan-2000 A	\$1,813,079	\$1,813,079	100.0	\$1,482,235
Restoration	Status:	Construction complete Jan		from November 1997	to July 1999 becaus	e of landright issues.	All landright agreem	ents signed. Constr	ruction	\$1,480,420
		O&M plan ex	xecuted. Main	tenance contract com	plete. Minor damag	e from Hurricane Lili	to be repaired. Con	tract in preparation		
Jonathan Davis Wetland	BARA	JEFF	510	05-Jan-1995 A	22-Jun-1998 A	12-Jan-2012 A	\$28,896,380	\$28,896,380	100.0	\$22,827,363
Restoration	Status:	Construction	has begun to	repair vandalism to th	ne concrete walls. W	Vork is anticipated to b	be completed by Octo	ober 2012.		\$22,729,057

- 1. Expenditures based on Corps of Engineers financial data.
- 2. Date codes: A = Actual date * = Behind schedule
- 3. Percent codes: ! = 125% of baseline estimate exceeded

COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT

Project Status Summary Report by Project Priority List

06-May-2019 Page 25

Actual

				******	** SCHEDULES	*****	****** I	ESTIMATES ***	****	Obligations/
PROJECT	BASIN	PARISH	ACRES	CSA	Const Start	Const End	Approved	Funded	%	Expenditures
Vermilion Bay/Boston	TECHE	VERMI	378	24-Mar-1994 A	13-Sep-1994 A	30-Nov-1995 A	\$1,043,748	\$1,043,748	100.0	\$903,545
Canal Shore Protection	Status:	Complete.								\$903,545
Total Pric	ority List NRCS	2	5,993				\$55,496,678	\$51,658,824	93.1	\$43,205,604 \$43,025,989
8 Project(s)										
8 Cost Shar	ring Agreements E	Executed								
7 Construct										
7 Construct	ion Completed									
	Deferred/Deauth	orized								
PPL Total 2				13	,090		\$93,061,350	\$89,223,496	95.9	\$77,623,408 \$77,389,893

- 15 Project(s)
- 15 Cost Sharing Agreements Executed
- 14 Construction Started
- 14 Construction Completed
- 1 Project(s) Deferred/Deauthorized

- 1. Expenditures based on Corps of Engineers financial data.
- 2. Date codes: A = Actual date * = Behind schedule
- 3. Percent codes: ! = 125% of baseline estimate exceeded

COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT

Project Status Summary Report by Project Priority List

PROJECT	BASIN	PARISH	ACRES	******* CSA	*** SCHEDULES Const Start	********* Const End	****** ES	TIMATES **** Funded	***** %	Actual Obligations/ Expenditures
Priority List 3		Lea	nd Agency:	COE, CORP	S OF ENGINE	CERS				
Channel Armor Gap Crevasse	DELTA	PLAQ	936	13-Jan-1997 A	22-Sep-1997 A	02-Nov-1997 A	\$884,270	\$884,270	100.0	\$766,568
Cievasse	Status:	Cost increase	was due to add	ditional project mana	agement costs, by bo	oth Federal and Local S	Sponsor.			\$766,568
		reviewed their	r permit for the		nined that Shell Pipe	egatively impacted by t eline was required to 1				
		Construction	complete.							
MRGO Disposal Area Marsh Protection	PONT	STBER	755	17-Jan-1997 A	25-Jan-1999 A	29-Jan-1999 A	\$318,445	\$318,445	100.0	\$318,445 \$318,445
COMPLETE	Status:	is under \$100	,000. Bids rec		nan Government esti	ned via a simplified acc mate by 25%. Subseq 9 January 1999.				ψ310,++3
		Cost increase	was due to add		agement costs, envir	conmental investigation	ns and local sponsor	activities not inclu	ided in	

Notes:

- 1. Expenditures based on Corps of Engineers financial data.
- 2. Date codes: A = Actual date * = Behind schedule
- 3. Percent codes: ! = 125% of baseline estimate exceeded

06-May-2019

Page 26 A a4--a1

the baseline estimate. Further title research indicates that private ownership titles are unclear, requiring condemnation. This accounts for the long period between CSA execution and project construction.

COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT

Project Status Summary Report by Project Priority List

				*****	*** SCHEDULES	****	***** ES	TIMATES ***	****	Obligations/
PROJECT	BASIN	PARISH	ACRES	CSA	Const Start	Const End	Approved	Funded	%	Expenditures
Pass-a-Loutre Crevasse DEAUTHORIZED	DELTA	PLAQ					\$119,835	\$119,835	100.0	\$119,835
DEACTIONLED	Status:	asked that the locations for the bottom w	e Corps investigathe cut. The Coridth of the crevatorandum dated Dhe project. COE	the alternative locarps has also reviews from 430 feet becember 5, 1997	area of the crevasse, in ations to avoid or min- wed the design to dete as originally proposed was sent to the CWPF norization at the Janua	imize impacts to the permine whether relocated to 200 feet reduced to PRA Technical Comm	pipelines, but there are tions cost-savings co the relocation cost of hittee Chairman requ	esting the Task Fo	e Reducing rce to	\$119,835
Total 1	Priority List COE	3	1,691				\$1,322,550	\$1,322,550	100.0	\$1,204,848 \$1,204,848

- 3 Project(s)
- 2 Cost Sharing Agreements Executed
- 2 Construction Started
- 2 Construction Completed
- 1 Project(s) Deferred/Deauthorized

Notes:

- 1. Expenditures based on Corps of Engineers financial data.
- 2. Date codes: A = Actual date * = Behind schedule
- 3. Percent codes: ! = 125% of baseline estimate exceeded

06-May-2019 Page 27

Actual

COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT

Project Status Summary Report by Project Priority List

			Hojects	aus Summary	report by 110,	ject i nonty last				Actual
PROJECT	BASIN	PARISH	ACRES	******** CSA	** SCHEDULES Const Start	********* Const End	******* ES Approved	Funded	**** %	Actual Obligations/ Expenditures
Priority List 3		Lea	d Agency:	EPA, REGIO	N 6					
Red Mud Demo DEAUTHORIZED	PONT	STJON		03-Nov-1994 A			\$520,129	\$520,129	100.0	\$520,129 \$520,129
DEMOTIONIZED	Status:					pending resolution of ells completed; no vege		y saltwater before	planting	\$320,129
		The Task For and Chemical		e deauthorization of t	the project on Augu	st 7, 2001. Escrowed	funds will be return	ed to Kaiser Alum	iinum	
Whiskey Island	TERRE	TERRE	1,239	06-Apr-1995 A	13-Feb-1998 A	15-Jun-2000 A	\$7,043,188	\$7,043,188	100.0	\$7,043,188
Restoration COMPLETE	Status:	At the Januar received.	ry 16, 1998 me	eting, the Task Force	approved addition	al funds to cover the in	creased construction	cost on lowest bi	d	\$7,043,188
				nary 13, 1998. Dredg ng/planting was carri		1998. Initial vegetati 00.	on with spartina on	oay shore, July 19	98.	
Total I	Priority List EPA	3	1,239				\$7,563,317	\$7,563,317	100.0	\$7,563,317 \$7,563,317

- 2 Project(s)
- 2 Cost Sharing Agreements Executed
- 1 Construction Started
- 1 Construction Completed
- 1 Project(s) Deferred/Deauthorized

Notes:

- 1. Expenditures based on Corps of Engineers financial data.
- 2. Date codes: A = Actual date * = Behind schedule
- 3. Percent codes: ! = 125% of baseline estimate exceeded

06-May-2019

Page 28

COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT

Project Status Summary Report by Project Priority List

****** SCHEDULES *******

Const Start

***** ESTIMATES ******

Actual Obligations/ **Expenditures**

06-May-2019 Page 29

Priority List 3

PROJECT

Lead Agency: FWS, FISH & WILDLIFE SERVICE

Sabine Refuge Structure Replacement (Hog Island) CA/SB

BASIN

CAMER

PARISH

953

ACRES

25-Oct-1996 A

CSA

01-Nov-1999 A

10-Sep-2003 A

Const End

\$6,177,735

Approved

\$6,001,758

Funded

97.2 \$5,992,084

%

\$5,732,619

Status:

Construction began the week of November 1, 1999 and was completed June 2001. The structures were installed and semi-operational by the following dates: Headquarters Canal structure - February 9, 2000; Hog Island Gully structure - August 2000; and the West Cove structure - June 2001. Initially electrical problems were caused because the "3-Phase" electrical service to the structures was not the proper 3-Phase. Transformers and filters were added to the structures in December 2001. The structures continued to operate incorrectly in the automatic mode because the correct "3-Phase" electricity was not available. Rotary phase converters, installed in September 2003, eliminated motor reversal and other problems for the Hog Island Gully and West Cove structure sites. All structures, except for one bay of the Hog Island Gully structure, were fully operational until late October 2004. The Monitoring Plan was approved on June 17, 1999. The Service will be responsible for all structure operations and minor maintenance and the State CPRA will be responsible for the larger maintenance items. Hurricane Rita in October 2005 overtopped the structures and damaged the electric motors, guard rails and other equipment. Some FEMA funds were received by the State for limited repair of Hurricane Rita damage. Other funds from the Fish and Wildlife Service were used for structure repair and upgrade. The electoral systems of all structures and the structure gates of the Hog Island and West Cove structures were modified from one to "two-stem" systems to provide for greater stability. The structures are now operating well with only occasional minor operational problems. The project is currently in the operation and maintenance phase; it's 20year life ends in September 2023.

Total Priority List FWS

953

\$6,177,735

97.2

\$5,992,084

- 1 Project(s)
- 1 Cost Sharing Agreements Executed
- Construction Started
- 1 Construction Completed
- 0 Project(s) Deferred/Deauthorized

Notes:

- 1. Expenditures based on Corps of Engineers financial data.
- 2. Date codes: A = Actual date * = Behind schedule
- 3. Percent codes: ! = 125% of baseline estimate exceeded

\$6,001,758

\$5,732,619

COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT

Project Status Summary Report by Project Priority List

06-May-2019 Page 30

Actual ****** SCHEDULES ******* ***** ESTIMATES ****** Obligations/ **PROJECT BASIN PARISH** ACRES **CSA Const Start** Const End **Funded** % **Expenditures** Approved **Priority List 3** Lead Agency: NMFS, NATIONAL MARINE FISHERIES SERVICE Bayou Perot/Bayou **BARA JEFF** 03-Mar-1995 A \$20.963 \$20.963 100.0 \$20,963 Rigolettes Marsh \$20.963 A feasibility study conducted by LA DNR indicated that possible wetlands benefits from construction of this project are questionable. LA Restoration Status: DNR has indicated a willingness to deauthorize the project. In April 1996, LA DNR had asked to reconsider the project with potential of DEAUTHORIZED combining this with two other projects in the watershed. Project deauthorized at January 16, 1998 Task Force meeting. Deauthorized. East Timbalier Island TERRE LAFOU 1.913 01-Feb-1995 A 01-May-1999 A 01-May-2001 A \$3,621,544 \$3,621,544 100.0 \$3,695,120 Sediment Restoration. \$3,695,120 Status: Construction completed in December 1999. Aerial seeding of the dune platform was achieved in spring 2000, and the installation of sand Phase 1 fencing was completed September 30, 2000. Vegetative dune plantings were completed May 1, 2001. Lake Chapeau Sediment **TERRE TERRE** 509 99.9 \$5,933,582 01-Mar-1995 A 14-Sep-1998 A 18-May-1999 A \$6,847,812 \$6,844,040 Input and Hydrologic \$5,907,883

Maintenance event to degrade the project feature identified as Weir 3 began on 4/27/2011, and the work was accepted on 6/24/2011.

Notes:

Restoration

- 1. Expenditures based on Corps of Engineers financial data.
- 2. Date codes: A = Actual date * = Behind schedule

Status:

3. Percent codes: ! = 125% of baseline estimate exceeded

COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT

Project Status Summary Report by Project Priority List

06-May-2019 Page 31

Actual

			****** SCHEDULES ******* ESTIMATES ******				****	Obligations/			
PROJECT	В	BASIN	PARISH	ACRES	CSA	Const Start	Const End	Approved	Funded	%	Expenditures
Lake Salvador Sho Protection Demo	re	BARA	STCHA	0	01-Mar-1995 A	02-Jul-1997 A	30-Jun-1998 A	\$2,801,782	\$2,801,782	100.0	\$2,801,782 \$2,801,782
COMPLETE	\$	Status:					tion between Bayou d l first costs have been		ake Salvador.		
			Closed out co	operative agre	eement between NOA	A and LADNR. Fir	rst costs accounting ur	idersay.			
			Project has se	rved its demo	nstration purpose and	is being removed by	y DNR with O&M fu	nds, summer of 2002			
	Total Priority List	NMFS	3	2,422				\$13,292,101	\$13,288,329	100.0	\$12,451,448 \$12,425,749

- 4 Project(s)
- 4 Cost Sharing Agreements Executed
- 3 Construction Started
- 3 Construction Completed
- 1 Project(s) Deferred/Deauthorized

- 1. Expenditures based on Corps of Engineers financial data.
- 2. Date codes: A = Actual date * = Behind schedule
- 3. Percent codes: ! = 125% of baseline estimate exceeded

COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT

Project Status Summary Report by Project Priority List

06-May-2019 Page 32

Actual

				*****	** SCHEDULES	*****	***** ES	TIMATES ****	****	Obligations/
PROJECT	BASIN	PARISH	ACRES	CSA	Const Start	Const End	Approved	Funded	%	Expenditures
Priority List 3		Lea	d Agency:	NRCS,						
Brady Canal Hydrologic Restoration	TERRE Status:	the area. In ac and design co project. The r	ddition, CSA re onditions have a evised CSA is	evisions were needed resulted in the CSA	I to accommodate the being modified to also	22-May-2000 A ons regarding monitor e landowner's interest so include Fina Oil Co	in providing non-Fe	deral funding. Perr	nitting	\$6,913,978 \$6,868,319
Cameron-Creole Maintenance	CA/SB Status:	CAMER The first three	2,602 e contracts for	09-Jan-1997 A maintenance work a	30-Sep-1997 A re complete. The pro	30-Sep-1997 A Dject provides for mai.	\$11,895,673	\$5,432,411 reded basis.	45.7	\$3,196,148 \$3,100,319
Cote Blanche Hydrologic Restoration	TECHE Status:	Site inspectio	n for bidder wa	as held January 12, 1	998. Concern for a	15-Dec-1998 A because of concern at source of shell may rempleted December 19	equire budget modifi			\$9,843,903 \$9,843,784

O&M plan executed. Maintenance contract complete.

- 1. Expenditures based on Corps of Engineers financial data.
- 2. Date codes: A = Actual date * = Behind schedule
- 3. Percent codes: ! = 125% of baseline estimate exceeded

COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT

06-May-2019 Page 33

Actual

Project Status Summary Report by Project Priority List

				******	** SCHEDULES *	*****	***** ES	TIMATES ****	****	Obligations/
PROJECT	BASIN	PARISH	ACRES	CSA	Const Start	Const End	Approved	Funded	%	Expenditures
Southwest Shore White Lake Demo	MERM	VERMI		11-Jan-1995 A	30-Apr-1996 A		\$103,468	\$103,468	100.0	\$103,468 \$103,468
DEAUTHORIZED	Status:	Complete. P	roject deauthor	ized.						\$103,406
	D.O.1.			10.0			\$120 to=	4480 485	400.0	4440 445
Violet Freshwater Distribution	PONT	STBER		13-Oct-1994 A			\$128,627	\$128,627	100.0	\$128,627 \$128,627
DEAUTHORIZED	Status:	-	y to gain access rate existing sip	_	oblem due to multiple	e landowner coordina	tion, and additional	questions have aris	sen about	\$120,027
		Project deaut	horized, Octob	er 4, 2000.						
West Pointe a la Hache	BARA	PLAQ		05-Jan-1995 A			\$1,168,631	\$1,168,631	100.0	\$1,168,631
Outfall Management DEAUTHORIZED	Status:	CPRA has w	ithdrawn suppo	rt for continuing this	s project. Project beg	an Deauthorization in	Fall 2014 Task For	ce meeting.		\$1,168,631
White Ditch Outfall	BRET	PLAQ		13-Oct-1994 A			\$32,862	\$32,862	100.0	\$32,862
Management DEAUTHORIZED	Status:	LA DNR con	curred with NF	RCS to deauthorize the	he project. Project d	leauthorized at the Jan	nuary 16, 1998 Task	Force meeting.		\$32,862

Notes:

1. Expenditures based on Corps of Engineers financial data.

Deauthorized.

- 2. Date codes: A = Actual date *= Behind schedule
- 3. Percent codes: ! = 125% of baseline estimate exceeded

COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT

06-May-2019 Page 34

Actual

Project Status Summary Report by Project Priority List

				******	*** SCHEDULES *	******	***** E	STIMATES ***	****	Obligations/
PROJEC	T BASIN	PARISH	ACRES	CSA	Const Start	Const End	Approved	Funded	%	Expenditures
	Total Priority List NRCS	3	5,122				\$31,016,922	\$24,256,666	78.2	\$21,387,617 \$21,246,011
	7 Project(s)									
	7 Cost Sharing Agreements E	xecuted								
	4 Construction Started									
	3 Construction Completed									
	4 Project(s) Deferred/Deautho	orized								
PPL Total	3			1	1,427		\$59,372,625	\$52,432,620	88.3	\$48,599,315 \$48,172,544

- 17 Project(s)
- 16 Cost Sharing Agreements Executed
- 11 Construction Started
- 10 Construction Completed
- 7 Project(s) Deferred/Deauthorized

- 1. Expenditures based on Corps of Engineers financial data.
- 2. Date codes: A = Actual date * = Behind schedule
- 3. Percent codes: ! = 125% of baseline estimate exceeded

PROJECT

Priority List 4

Beneficial Use of Hopper

Dredge Material Demo

DEAUTHORIZED

Grand Bay Crevasse

DEAUTHORIZED

COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT

Project Status Summary Report by Project Priority List

A draft memorandum dated December 5, 1997 was sent to the CWPPRA Technical Committee Chairman requesting the Task Force to deauthorize the project. COE requested deauthorization at the January 16, 1998 Task Force meeting. Project deauthorized July 23, 1998.

****** SCHEDULES ******* ***** ESTIMATES ****** Obligations/ ACRES **CSA Const Start Const End Funded** % **Expenditures** Approved Lead Agency: COE, CORPS OF ENGINEERS 30-Jun-1997 A \$58.310 \$58.310 100.0 \$58,310 \$58,310 Current scheme was found to be non-implementable due to inability of the hopper dredge to get close enough to the disposal area to spray over the bank of the Mississippi River. Project deauthorized October 4, 2000. \$65,747 \$65,747 100.0 \$65,747 \$65,747 The major landowner has indicated non-support of the project and has withheld ROE because of concern about sedimentation negatively impacting oil and gas interests within the deposition area.

Total Priority List COE

BASIN

DELTA

Status:

BRET

Status:

PARISH

PLAO

PLAQ

- \$124.057
- \$124.057
- 100.0 \$124,057 \$124,057

- 2 Project(s)
- Cost Sharing Agreements Executed
- 0 Construction Started
- 0 Construction Completed
- 2 Project(s) Deferred/Deauthorized

Notes:

- 1. Expenditures based on Corps of Engineers financial data.
- 2. Date codes: A = Actual date * = Behind schedule
- 3. Percent codes: ! = 125% of baseline estimate exceeded

06-May-2019 Page 35

Actual

COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT

06-May-2019

Page 36

Actual

Project Status Summary Report by Project Priority List

					*****	** SCHEDULES	*****	***** ES	TIMATES ****	****	Obligations/
PROJECT		BASIN	PARISH	ACRES	CSA	Const Start	Const End	Approved	Funded	%	Expenditures
Priority List	4		Lea	d Agency:	EPA, REGIO	N 6					
Compost Demo		CA/SB	CAMER		22-Jul-1996 A			\$255,391	\$255,391	100.0	\$255,391
DEAUTHORIZEI)	Status:	Plans and spe	cifications have	e been finalized. All	permits and constru	ction approvals have	peen obtained.			\$255,391
				of compost vege on bids has bee		ot yet been supplied.	A smaller sized demo	onstration has been	designed. Adverti	sement	
			The Task For	ce approved dea	authorization on Jan	uary 16, 2002.					
	Total Priority	List EPA	4					\$255,391	\$255,391	100.0	\$255,391 \$255,391

- 1 Project(s)
- 1 Cost Sharing Agreements Executed
- 0 Construction Started
- 0 Construction Completed
- 1 Project(s) Deferred/Deauthorized

- 1. Expenditures based on Corps of Engineers financial data.
- 2. Date codes: A = Actual date * = Behind schedule
- 3. Percent codes: ! = 125% of baseline estimate exceeded

COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT

Project Status Summary Report by Project Priority List

06-May-2019 Page 37

				1 Toject Bu	atas Summary	report by 110,	ject i nonty last				Actual
PROJECT	BA	ASIN	PARISH	ACRES	******* CSA	** SCHEDULES Const Start	********* Const End	****** ES	TIMATES **** Funded	**** %	Obligations/ Expenditures
Priority List	t 4		Lea	d Agency:	NMFS, NAT	TONAL MARI	NE FISHERIES	SERVICE			
East Timbalier Isl Sediment Restora Phase 2	tion,	ERRE	invoked on th	e island as a res		ly and Tropical Stor	15-Jan-2000 A s for East Tinbalier Isla m Isadore, future cons				\$7,548,066 \$7,548,066
Eden Isles East M Restoration DEAUTHORIZE		PONT tatus:	placed twice t	o acquire the la Force meeting	nd; both times the		rce to move forward w o higher bids by priva		1 3		\$39,025 \$39,025
	Total Priority List	NMFS	4	215				\$7,639,176	\$7,639,176	100.0	\$7,587,091 \$7,587,091

- 2 Project(s)
- 1 Cost Sharing Agreements Executed
- 1 Construction Started
- 1 Construction Completed
- 1 Project(s) Deferred/Deauthorized

- 1. Expenditures based on Corps of Engineers financial data.
- 2. Date codes: A = Actual date * = Behind schedule
- 3. Percent codes: ! = 125% of baseline estimate exceeded

COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT

06-May-2019 Page 38

Actual

Project Status Summary Report by Project Priority List

				******	** SCHEDULES	*****	****** ES	TIMATES ****	****	Obligations/
PROJECT	BASIN	PARISH	ACRES	CSA	Const Start	Const End	Approved	Funded	%	Expenditures
Priority List 4		Lea	d Agency:	NRCS,						
Barataria Bay Waterway West Side Shoreline Protection	BARA Status:	JEFF The project is	232 s being coordina	23-Jun-1997 A	01-Jun-2000 A	01-Nov-2000 A	\$3,369,006 rember 1999.	\$3,367,515	100.0	\$3,280,043 \$3,272,703
		Construction	complete. Dedi	cation ceremony hel	ld October 20, 2000	. O&M plan signed Ju	lly 15, 2002.			
Bayou Lours Ridge Hydrologic Restoration DEAUTHORIZED	BARA Status:	LAFOU The initial stemeeting.	ep of deauthoriz	23-Jun-1997 A cation was taken at the	ne January Task For	ce meeting. The proce	\$371,232 ss will be finalized a	\$371,232 t the April Task Fo	100.0 orce	\$371,232 \$371,232
Flotant Marsh Fencing Demo DEAUTHORIZED	TERRE Status:	•	ocating an appr	•	onstration and diffic	culty in addressing eng	\$106,960 gineering constraints.	\$106,960	100.0	\$106,960 \$106,960
Perry Ridge Shore Protection	CA/SB Status:	CALCA Project comp	1,203	23-Jun-1997 A	15-Dec-1998 A	15-Feb-1999 A	\$2,289,090	\$2,289,090	100.0	\$1,922,825 \$1,902,745

- 1. Expenditures based on Corps of Engineers financial data.
- 2. Date codes: A = Actual date * = Behind schedule
- 3. Percent codes: ! = 125% of baseline estimate exceeded

COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT

06-May-2019 Page 39

Actual

\$13,945,150

Project Status Summary Report by Project Priority List

					** SCHEDULES	*****	****** I	ESTIMATES ***	*****	Obligations/
PROJECT	BASIN	PARISH	ACRES	CSA	Const Start	Const End	Approved	Funded	%	Expenditures
Plowed Terraces Der	mo CA/SB	CAMER	0	22-Oct-1998 A	30-Apr-1999 A	31-Aug-2000 A	\$324,970	\$324,970	100.0	\$324,970 \$324,970
	Status:	The first atte		e terraces in the sum		monstration project be t successful. A second				9324,770
1	Γotal Priority List NRC	S 4	1,435				\$6,461,259	\$6,459,768	100.0	\$6,006,031 \$5,978,611
5 I	Project(s)									
5 (Cost Sharing Agreements	Executed								
3 (Construction Started									
3 (Construction Completed									
2 F	Project(s) Deferred/Deau	thorized								
PPL Total 4				1,	650		\$14,479,883	\$14,478,392	100.0	\$13,972,570

- 10 Project(s)
- 8 Cost Sharing Agreements Executed
- 4 Construction Started
- 4 Construction Completed
- 6 Project(s) Deferred/Deauthorized

- 1. Expenditures based on Corps of Engineers financial data.
- 2. Date codes: A = Actual date * = Behind schedule
- 3. Percent codes: ! = 125% of baseline estimate exceeded

COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT

Project Status Summary Report by Project Priority List

06-May-2019 Page 40

Actual

				******* SCHEDULES *******			****** ESTIMATES ******			Obligations/
PROJECT	BASIN	PARISH	ACRES	CSA	Const Start	Const End	Approved	Funded	%	Expenditures
Priority List 5		Lea	nd Agency:	COE, CORP	S OF ENGINE	ERS				
Bayou Chevee Shoreline Protection	PONT Status:	ORL As of Oct 20	75 13, CPRA was i	01-Feb-2001 A	25-Aug-2001 A	17-Dec-2001 A nate for a scheduled ro	\$2,589,403	\$2,589,403 Chevee project.	100.0	\$2,397,760 \$2,397,760
Total Prior	rity List COE	5	75				\$2,589,403	\$2,589,403	100.0	\$2,397,760 \$2,397,760

¹ Project(s)

- 2. Date codes: A = Actual date * = Behind schedule
- 3. Percent codes: ! = 125% of baseline estimate exceeded

¹ Cost Sharing Agreements Executed

¹ Construction Started

¹ Construction Completed

⁰ Project(s) Deferred/Deauthorized

^{1.} Expenditures based on Corps of Engineers financial data.

COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT

Project Status Summary Report by Project Priority List

06-May-2019 Page 41

Actual

				*****	*** SCHEDULES *	****	****** ES	TIMATES ****	****	Obligations/
PROJECT	BASIN	PARISH	ACRES	CSA	Const Start	Const End	Approved	Funded	%	Expenditures
Priority List 5		Lea	d Agency:	EPA, REGIO	ON 6					
Bayou Lafourche Siphon DEAUTHORIZED	TERRE Status:	IBERV Project was d	eauthorized by	19-Feb-1997 A the Task Force on 0	October 25, 2007.		\$1,500,000	\$1,500,000	100.0	\$1,500,000 \$1,500,000
Total Priority	List EPA	5					\$1,500,000	\$1,500,000	100.0	\$1,500,000 \$1,500,000

¹ Project(s)

- 2. Date codes: A = Actual date * = Behind schedule
- 3. Percent codes: ! = 125% of baseline estimate exceeded

¹ Cost Sharing Agreements Executed

⁰ Construction Started

⁰ Construction Completed

¹ Project(s) Deferred/Deauthorized

^{1.} Expenditures based on Corps of Engineers financial data.

COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT

Project Status Summary Report by Project Priority List

06-May-2019 Page 42

			1 Toject Su	ions summing.	report by 110j	cet I from Just				Actual
				******	** SCHEDULES	*****	***** ES	TIMATES ****	****	Obligations/
PROJECT	BASIN	PARISH	ACRES	CSA	Const Start	Const End	Approved	Funded	%	Expenditures
Priority List 5		Lea	nd Agency:	FWS, FISH &	k WILDLIFE S	ERVICE				
Grand Bayou Hydrologic Restoration	TERRE	LAFOU		28-May-2004 A			\$1,452,357	\$1,452,357	100.0	\$1,452,357 \$1,452,357
DEAUTHORIZED	Status:					salinity increases rath pursuing project de-a		Staff of the Pointe	au Chene	φ1, 4 32,337
Total Priorit	y List FWS	5					\$1,452,357	\$1,452,357	100.0	\$1,452,357 \$1,452,357

- 1 Project(s)
- 1 Cost Sharing Agreements Executed
- 0 Construction Started
- 0 Construction Completed
- 1 Project(s) Deferred/Deauthorized

- 1. Expenditures based on Corps of Engineers financial data.
- 2. Date codes: A = Actual date * = Behind schedule
- 3. Percent codes: ! = 125% of baseline estimate exceeded

COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT

Project Status Summary Report by Project Priority List

06-May-2019 Page 43 **Actual**

								TIMATES ****	****	Obligations/
PROJECT	BASIN	PARISH	ACRES	CSA	Const Start	Const End	Approved	Funded	%	Expenditures
Priority List	5	Lea	d Agency:	NMFS, NAT	TONAL MARI	NE FISHERIES	SERVICE			
Little Vermilion Ba Sediment Trapping	y TECHE Status:	Emergent veg	getation was not ong the norther	ted to be colonizing n edge of the projec	in some locations be	20-Aug-1999 A ported that the terrace etween terraces. The F rosion on the ends of the	reshwater Bayou car	nal bank continues	to erode	\$772,779 \$772,779
Myrtle Grove Sipho DEAUTHORIZED	n BARA Status:	funding in the estimated to be NOAA and L	e amount of \$6, be \$15,525,950	000,000 for FY 97. sing out the coopera	Priority List 8 is a	o) for the FY 96 Phase athorized to fund the seturning remaining pr	remaining \$5,000,00	00. Total project co	ost is	\$481,803 \$481,803
	Total Priority List NMFS	5	441				\$1,367,833	\$1,367,833	100.0	\$1,254,582 \$1,254,582

- 2 Project(s)
- 2 Cost Sharing Agreements Executed
- 1 Construction Started
- 1 Construction Completed
- 1 Project(s) Deferred/Deauthorized

- 1. Expenditures based on Corps of Engineers financial data.
- 2. Date codes: A = Actual date * = Behind schedule
- 3. Percent codes: ! = 125% of baseline estimate exceeded

COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT

06-May-2019 Page 44

Actual

Project Status Summary Report by Project Priority List

				******	** SCHEDULES	*****	****** ES	STIMATES ****	****	Obligations/
PROJECT	BASIN	PARISH	ACRES	CSA	Const Start	Const End	Approved	Funded	%	Expenditures
Priority List 5		Lea	nd Agency:	NRCS,						
Freshwater Bayou Bank Stabilization	MERM Status:		_	01-Jul-1997 A g paid by Acadian Ga ury 14, 1998. Const		15-Jun-1998 A	\$8,913,357	\$5,547,666	62.2	\$5,329,186 \$5,316,085
Naomi Outfall Management	BARA Status:	The operation	n of the siphon contract adver	is being reviewed by	/ DNR. Hydraulic an	15-Jul-2002 A et for planning and des alysis is complete; res June 2002 and compl	sults concurred in by	-	99.2	\$2,138,005 \$2,111,680
Raccoon Island Breakwaters Demo	TERRE Status:	TERRE Complete.	0	03-Sep-1996 A	21-Apr-1997 A	31-Jul-1997 A	\$1,788,103	\$1,788,103	100.0	\$1,751,046 \$1,751,046

- 1. Expenditures based on Corps of Engineers financial data.
- 2. Date codes: A = Actual date * = Behind schedule
- 3. Percent codes: ! = 125% of baseline estimate exceeded

COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT

06-May-2019 Page 45

\$19,222,463

Project Status Summary Report by Project Priority List

PROJECT	BASIN	PARISH	ACRES	· ·	*** SCHEDULES Const Start	********** Const End		ESTIMATES *** Funded	***** %	Actual Obligations/ Expenditures
Sweet Lake/Willow Lake Hydrologic Restoration	CA/SB Status:	CAMER The rock ban	247	23-Jun-1997 A sature of the project i	01-Nov-1999 A s complete.	02-Oct-2002 A	\$3,929,152	\$3,929,152	100.0	\$3,438,952 \$3,438,952
Total Priori 4 Project(s) 4 Cost Sharin 4 Constructio 4 Constructio 0 Project(s) E	n Started n Completed	unable to cor construction 5 Executed		struction. Contract te		etative planting will l work was advertised				\$12,657,190 \$12,617,764
PPL Total 5				1	,907		\$23,849,842	\$20,465,537	85.8	\$19,261,889

- 9 Project(s)
- 9 Cost Sharing Agreements Executed
- **6 Construction Started**
- **6 Construction Completed**
- 3 Project(s) Deferred/Deauthorized

- 1. Expenditures based on Corps of Engineers financial data.
- 2. Date codes: A = Actual date *= Behind schedule
- 3. Percent codes: ! = 125% of baseline estimate exceeded

COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT

Project Status Summary Report by Project Priority List

****** SCHEDULES ******* ***** ESTIMATES ****** Obligations/ **PROJECT BASIN** PARISH ACRES **CSA Const Start Const End Funded** % **Expenditures** Approved **Priority List** 5.1 Lead Agency: EPA, REGION 6 Mississippi River TERRE **IBERV** 23-Jul-2003 A \$7,452,191 \$7,452,191 100.0 \$7,452,191 Reintroduction into \$7,452,191 The Mississippi River Reintroduction into Bayou Lafourche Project (BA-25b) has been proposed for de-authorization from the CWPPRA Bayou Lafourche Status: program. However, recognizing the importance of this project, the State of Louisiana, through the Louisiana Department of Natural DEAUTHORIZED Resources, has committed to developing this project and is continuing final design efforts toward completion beyond its authorization under the CWPPRA program. Total Priority List EPA \$7,452,191 \$7,452,191 100.0 \$7,452,191 5.1 \$7,452,191 0 Project(s) 1 Cost Sharing Agreements Executed 0 Construction Started 0 Construction Completed 1 Project(s) Deferred/Deauthorized **PPL Total** 5.1 \$7,452,191 \$7,452,191 100.0 \$7,452,191

- 1 Project(s)
- 1 Cost Sharing Agreements Executed
- 0 Construction Started
- 0 Construction Completed
- 1 Project(s) Deferred/Deauthorized

Notes:

- 1. Expenditures based on Corps of Engineers financial data.
- 2. Date codes: A = Actual date * = Behind schedule
- 3. Percent codes: ! = 125% of baseline estimate exceeded

06-May-2019 Page 46

Actual

\$7,452,191

PROJECT

COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT

Project Status Summary Report by Project Priority List

******** SCHEDULES ******** ****** ESTIMATES ******* Obligations/
CSA Const Start Const End Approved Funded % Expenditures

Priority List 6 Lead Agency: COE, CORPS OF ENGINEERS

ACRES

PARISH

Flexible Dustpan Demo at DELTA **PLAO** 0 31-May-2002 A 03-Jun-2002 A 21-Jun-2002 A \$1,904,646 \$1,904,646 100.0 \$1.889.631 Head of Passes Demo \$1,889,631 **COMPLETE** Status: CSA executed May 31, 2002. Construction completed June 21, 2002.

The Dustpan/Cutterhead Marsh Creation Demonstration project as originally approved, no longer involves the use of a cutterhead dredge. At the October 25, 2001 Task Force meeting, it was approved the motion to use the authorized funds for a "flexible dustpan" demonstration project and approved changing the name of the project to "Flexible Dustpan Demo at Head of Passes".

The project was completed as an operations and maintenance task order through an ERDC research and development IDC contract. The project identified some minor areas of concern with regard to the dredge plants effectiveness as a maintenance tool. The dredge was effective in its performance for the beneficial placement of material. The final surveys and quantities have not yet been reported.

A draft memorandum dated December 5, 1997 was sent to the Technical Committee Chairman requesting the Task Force to deauthorize

Marsh Creation E of the Atchafalaya Rvr-Avoca Island DEAUTHORIZED TERRE STMRY

Status:

BASIN

\$66,869

\$66,869

100.0

\$66,869 \$66,869

the project. COE requested deauthorization at the January 16, 1998 Task Force meeting.

Project deauthorized July 23, 1998.

Notes:

- 1. Expenditures based on Corps of Engineers financial data.
- 2. Date codes: A = Actual date * = Behind schedule
- 3. Percent codes: ! = 125% of baseline estimate exceeded

06-May-2019 Page 47

COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT

Project Status Summary Report by Project Priority List

06-May-2019 Page 48

Actual

PROJECT	BASIN	PARISH	ACRES	******** CSA	** SCHEDULES Const Start	********** Const End	****** ES Approved	STIMATES **** Funded	**** %	Obligations/ Expenditures
Marsh Island Hydrologic Restoration	TECHE	IBERI	408	01-Feb-2001 A	25-Jul-2001 A	12-Dec-2001 A	\$5,143,323	\$5,143,323	100.0	\$4,451,524 \$4,451,524
Restoration	Status:			or PPL 5, 6 and 8 projection beg	-			ry 1, 2001. Adverti	sed as	Ψ 4,431,324
		Revised design	gn of closures	s from earthen to rock b	pecause soil borings	indicate highly organ	ic material in borrov	v area.		
Total	Priority List COE	6	408				\$7,114,838	\$7,114,838	100.0	\$6,408,023 \$6,408,023

- 3 Project(s)
- 2 Cost Sharing Agreements Executed
- 2 Construction Started
- 2 Construction Completed
- 1 Project(s) Deferred/Deauthorized

- 1. Expenditures based on Corps of Engineers financial data.
- 2. Date codes: A = Actual date * = Behind schedule
- 3. Percent codes: ! = 125% of baseline estimate exceeded

COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT

Project Status Summary Report by Project Priority List

06-May-2019 Page 49 **Actual**

				*****	*** SCHEDULES	*****	****** ES	TIMATES ***	****	Obligations/
PROJECT	BASIN	PARISH	ACRES	CSA	Const Start	Const End	Approved	Funded	%	Expenditures
Priority List 6		Lea	ad Agency:	EPA, REGI	ON 6					
Bayou Boeuf Pump Station DEAUTHORIZED	TERRE Status:	Priority List 8 EPA notified	8 was scheduled the Technical C	to fund \$100,000 committee that the	. Total project cost w	150,000; Priority List was estimated to be \$50 to deauthorize the pro	0,000. By letter da			\$3,452 \$3,452
Total Priori	ty List EPA	6					\$3,452	\$3,452	100.0	\$3,452 \$3,452

- 1 Project(s)
- 0 Cost Sharing Agreements Executed
- 0 Construction Started
- 0 Construction Completed
- 1 Project(s) Deferred/Deauthorized

- 1. Expenditures based on Corps of Engineers financial data.
- 2. Date codes: A = Actual date * = Behind schedule
- 3. Percent codes: ! = 125% of baseline estimate exceeded

COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT

06-May-2019 Page 50

Actual

Project Status Summary Report by Project Priority List

				******	** SCHEDULES	****** E	****	Obligations/		
PROJECT	BASIN	PARISH	ACRES	CSA	Const Start	Const End	Approved	Funded	%	Expenditures
Priority List 6		Lea	nd Agency:	FWS, FISH &	& WILDLIFE S	SERVICE				
Lake Boudreaux Freshwater Introduction INACTIVE	TERRE Status:	final landrigh hold until the	ts documents v	which are being subn	nitted to property ov to address the conc	01-Oct-2014* rights work. The upda vners for execution. Furrent Parish proposal	Review of the permit	application has bee	en put on	\$4,275,398 \$4,274,707
Nutria Harvest for Wetland Restoration Demo	COAST Status:	COAST	0	27-Oct-1998 A	20-Sep-1998 A	30-Oct-2003 A	\$806,220	\$806,220	100.0	\$806,220 \$806,220

Nutria Harvest Demonstration Project

Status July 2005

From April through June 2003 the following activities were completed: Promotional Events: 1) Chef Parola demonstrated nutria meat preparation and organized judging for the U. S. Army Corps of Engineers annual "Earth Day Celebration" in New Orleans, 2) LDWF assisted Chef Kevin Diez by providing nutria meat for the Baton Rouge Family Fun Fair, and 3) LDWF provided nutria sausage to the Opelousas Chamber of Commerce for a national cycling event.

LDWF contracted with Firefly Digital to upgrade the Nutria Website "www.nutria.com" to be completed in September 2003. The upgrade will provide easier site navigational access and more accurate and rapid user information.

This project was completed in October 2003. The project sponsors have completed project close-out activities.

- 1. Expenditures based on Corps of Engineers financial data.
- 2. Date codes: A = Actual date * = Behind schedule
- 3. Percent codes: ! = 125% of baseline estimate exceeded

COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT

Project Status Summary Report by Project Priority List

06-May-2019 Page 51

Actual

				*****	**** SCHEDULES *	*****	***** ES	TIMATES ****	****	Obligations/	
PROJECT	BASIN	PARISH	ACRES	CSA	Const Start	Const End	Approved	Funded	%	Expenditures	
5	Total Priority List FWS	6	266				\$26,572,985	\$20,854,372	78.5	\$5,081,618 \$5,080,927	

- 2 Project(s)
- 2 Cost Sharing Agreements Executed
- 1 Construction Started
- 1 Construction Completed
- 0 Project(s) Deferred/Deauthorized

- 1. Expenditures based on Corps of Engineers financial data.
- 2. Date codes: A = Actual date * = Behind schedule
- 3. Percent codes: ! = 125% of baseline estimate exceeded

COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT

06-May-2019 Page 52

Actual

Project Status Summary Report by Project Priority List

				******	** SCHEDULES	*****	****** ES	STIMATES ****	****	Obligations/
PROJECT	BASIN	PARISH	ACRES	CSA	Const Start	Const End	Approved	Funded	%	Expenditures
Priority List 6		Lea	nd Agency:	NMFS, NAT	IONAL MARI	NE FISHERIES	SERVICE			
Black Bayou Hydrologic Restoration	CA/SB Status:	CAMER An O&M ins	3,594 pection is sche	28-May-1998 A duled for 5-04-11.	01-Jul-2001 A	03-Nov-2003 A	\$12,698,222	\$12,462,252	98.1	\$6,590,300 \$6,448,500
Delta Wide Crevasses	DELTA Status:	discussions w	ith both USFV		ntify the new, and f	01-May-2005 A by 19. All crevasses we inal list of crevasse sp				\$3,223,223 \$3,197,279
Sediment Trapping at The Jaws	TECHE Status:		-	28-May-1998 A nducted on 4-05-11. If mud flats between		19-May-2005 A on of the terraces is go oreline.	\$1,722,811 ood. Evidence of rec	\$1,722,811 covery from herbivo	100.0	\$1,392,975 \$1,392,975

- 1. Expenditures based on Corps of Engineers financial data.
- 2. Date codes: A = Actual date * = Behind schedule
- 3. Percent codes: ! = 125% of baseline estimate exceeded

COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT

Project Status Summary Report by Project Priority List

06-May-2019 Page 53

Actual

				****** SCHEDULES *******			***** EST	Obligations/		
PROJECT	BASIN	PARISH	ACRES	CSA	Const Start	Const End	Approved	Funded	%	Expenditures
	Total Priority List NMFS	6	7,979				\$19,149,352	\$18,913,382	98.8	\$11,206,497 \$11,038,755

- 3 Project(s)
- 3 Cost Sharing Agreements Executed
- 3 Construction Started
- 3 Construction Completed
- 0 Project(s) Deferred/Deauthorized

- 1. Expenditures based on Corps of Engineers financial data.
- 2. Date codes: A = Actual date * = Behind schedule
- 3. Percent codes: ! = 125% of baseline estimate exceeded

COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT

Project Status Summary Report by Project Priority List

06-May-2019 Page 54

Troject Status Summary Report by Project Phonty List									Actual			
				*****	*** SCHEDULES	****	***** ES	TIMATES ***	****	Obligations/		
PROJECT	BASIN	PARISH	ACRES	CSA	Const Start	Const End	Approved	Funded	%	Expenditures		
Priority List 6		Lea	ad Agency:	NRCS,								
Barataria Bay Waterway East Side Shoreline	BARA	JEFF	217	12-May-1999 A	01-Dec-2000 A	31-May-2001 A	\$5,224,477	\$5,224,477	100.0	\$4,840,832 \$4,779,992		
Protection	Status:	This project v	This project was combined with the Naomi Outfall Management project for planning and design; construction was separate.									
		Project const	ruction comple	ete.								
		O&M plan si	igned October	2, 2002.								
Cheniere au Tigre	TECHE	VERMI	0	20-Jul-1999 A	01-Sep-2001 A	02-Nov-2001 A	\$624,999	\$624,999	100.0	\$596,781 \$596,781		
Sediment Trapping DEMO	Status:	A request for proposals was advertised in Feb 2000. No valid proposals received. Proceeding with design of a rock structure. Project advertised for bid. Bid came in over estimate. LDNR and NRCS shifted funds from monitoring to construction. Delay in getting new obligation due to internal COE procedures. Government order received July 13, 2001. Construction complete.										
Oaks/Avery Canal	TECHE	VERMI	160	22-Oct-1998 A	15-Apr-1999 A	11-Oct-2002 A	\$2,925,216	\$2,925,216	100.0	\$2,666,090		
Hydrologic Restoration	Status:	O&M plan w	O&M plan was finalized on 2/11/04.									
Penchant Basin Natural Resources Plan,	TERRE	TERRE	675	23-Apr-2002 A	25-May-2010 A	24-Aug-2011 A	\$17,628,814	\$17,628,814	100.0	\$13,148,171 \$13,123,674		
Increment 1	Status:	Project construction was completed on August 24, 2011.										

- 1. Expenditures based on Corps of Engineers financial data.
- 2. Date codes: A = Actual date * = Behind schedule
- 3. Percent codes: ! = 125% of baseline estimate exceeded

COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT

06-May-2019 Page 55

Actual

Project Status Summary Report by Project Priority List

				******* SCHEDULES ********			****** E	Obligations/		
PROJEC	T BASIN	PARISH	ACRES	CSA	Const Start	Const End	Approved	Funded	%	Expenditures
	Total Priority List NRCS	6	1,052				\$26,403,506	\$26,403,506	100.0	\$21,251,874 \$21,162,223
	4 Project(s)									
	4 Cost Sharing Agreements Ex	xecuted								
	4 Construction Started									
	4 Construction Completed									
	0 Project(s) Deferred/Deautho	orized								
PPL Total	6			9,	,705		\$79,244,134	\$73,289,551	92.5	\$43,951,464 \$43,693,379

- 13 Project(s)
- 11 Cost Sharing Agreements Executed
- 10 Construction Started
- 10 Construction Completed
- 2 Project(s) Deferred/Deauthorized

- 1. Expenditures based on Corps of Engineers financial data.
- 2. Date codes: A = Actual date * = Behind schedule
- 3. Percent codes: ! = 125% of baseline estimate exceeded

COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT

Project Status Summary Report by Project Priority List

06-May-2019 Page 56

Actual ****** SCHEDULES ******* ***** ESTIMATES ****** Obligations/ **PROJECT BASIN PARISH** ACRES **CSA Const Start Const End Funded** % **Expenditures** Approved **Priority List** 7 Lead Agency: NMFS, NATIONAL MARINE FISHERIES SERVICE Grand Terre Vegetative **BARA JEFF** 127 23-Dec-1998 A 01-May-2001 A 01-Jul-2001 A \$346,578 \$346,578 100.0 \$346,578 **Plantings** \$346,578 Planting of 3,100 units each of bitter panicum, gulf cordgrass, and marshhay cordgrass on beach nourishment/dune area, and installation Status: of approximately 35,000 smooth cordgrass and 800 black mangrove was completed in June 2001. Monitoring is underway. Project area is being evaluated for additional plantings in 2003/2004. Pecan Island Terracing MERM VERMI 442 01-Apr-1999 A 10-Sep-2003 A \$2,485,502 \$2,485,502 100.0 \$2,348,454 15-Dec-2002 A \$2,348,454 An O&M inspection is planned for May 2011. Status: Total Priority List NMFS 7 569 \$2,832,080 \$2,832,080 100.0 \$2,695,032 \$2,695,032

- 2 Project(s)
- 2 Cost Sharing Agreements Executed
- 2 Construction Started
- 2 Construction Completed
- 0 Project(s) Deferred/Deauthorized

- 1. Expenditures based on Corps of Engineers financial data.
- 2. Date codes: A = Actual date * = Behind schedule
- 3. Percent codes: ! = 125% of baseline estimate exceeded

COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT

06-May-2019 Page 57

Actual

Project Status Summary Report by Project Priority List

				*****	** SCHEDULES	****** ES	Obligations/			
PROJECT	BASIN	PARISH	ACRES	CSA	Const Start	Const End	Approved	Funded	%	Expenditures
Priority List 7		Lea	ad Agency:	NRCS,						
Barataria Basin Landbridge Shoreline Protection, Ph 1 & 2	BARA Status:	JEFF	1,304	16-Jul-1999 A	01-Dec-2000 A	05-Mar-2009 A	\$27,842,861	\$27,842,861	100.0	\$26,530,614 \$26,424,884
Thin Mat Floating Mars Enhancement Demo COMPLETE	h TERRE Status:		0 complete. Mor	16-Oct-1998 A nitoring ongoing.	15-Jun-1999 A	10-May-2000 A	\$538,101	\$538,101	100.0	\$538,101 \$538,101
Tota	al Priority List NRC	S 7	1,304				\$28,380,962	\$28,380,962	100.0	\$27,068,715 \$26,962,984

- 2 Project(s)
- 2 Cost Sharing Agreements Executed
- 2 Construction Started
- 2 Construction Completed
- 0 Project(s) Deferred/Deauthorized

- 1. Expenditures based on Corps of Engineers financial data.
- 2. Date codes: A = Actual date * = Behind schedule
- 3. Percent codes: ! = 125% of baseline estimate exceeded

COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT

Project Status Summary Report by Project Priority List

06-May-2019 Page 58

			3	*****	**** SCHEDULES		****** I	Actual Obligations/		
PROJECT	BASIN	PARISH	ACRES	CSA	Const Start	Const End	Approved	Funded	%	Expenditures
PPL Total 7					1,873		\$31,213,042	\$31,213,042	100.0	\$29,763,747 \$29,658,016

- 4 Project(s)
- 4 Cost Sharing Agreements Executed
- 4 Construction Started
- 4 Construction Completed
- 0 Project(s) Deferred/Deauthorized

- 1. Expenditures based on Corps of Engineers financial data.
- 2. Date codes: A = Actual date * = Behind schedule
- 3. Percent codes: ! = 125% of baseline estimate exceeded

COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT

06-May-2019 Page 59

Project Status Summary Report by Project Priority List

			1 roject s	tutus summing	report of 110	jeet i nonej ms	•			Actual
PROJECT	BASIN	PARISH	ACRES	**************************************	** SCHEDULES Const Start	********* Const End	****** ES	STIMATES **** Funded	***** %	Obligations/ Expenditures
Priority List 8		Lea	d Agency:	COE, CORP	S OF ENGINE	EERS				
Sabine Refuge Marsh Creation, Cycle 1	CA/SB Status:	The first cycle advertised for initiation was	ne Sabine Nation construct all the was completed bid as a compadvanced in Case 8, 2004 the Case Sabine Nation 1 the Case Sabine Nation 2 the Case	conal Wildlife Refuge cycles is approximate ed on February 26, 20 ponent of the Calcasia conjunction with an a	using material dred ely \$21.4 million. 002. The total project eu River and Pass M ccelerated maintena provided additional	26-Feb-2002 A begin begin by the Calcasi and t	ycle 1 was \$3,412,4 contract on February e for the Calcasieu R	15. The project way 16, 2001. Construction	stimated s uction	\$3,422,433 \$3,422,433
Sabine Refuge Marsh Creation, Cycle 2	CA/SB Status:	CAMER Currently this	261 s project is con	17-Feb-2005 A nplete but are waiting	28-Apr-2009 A	28-Apr-2010 A	\$14,331,667 the Corps before th	\$14,331,668 is pipeline can be	100.0 used.	\$11,076,802 \$11,075,348

- 1. Expenditures based on Corps of Engineers financial data.
- 2. Date codes: A = Actual date * = Behind schedule
- 3. Percent codes: ! = 125% of baseline estimate exceeded

COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT

Project Status Summary Report by Project Priority List

06-May-2019 Page 60

Actual

\$17,263,036 \$17,261,582

			****** SCHEDULES ******* *** ESTIMATES ****** Obligations						Obligations/					
PROJECT	BASIN	PARISH		CSA	Const Start	Const End	Approved	Funded	%	Expenditures				
Sabine Refuge Marsh Creation, Cycle 3	CA/SB	CAMER	187	28-Mar-2005 A	25-Oct-2006 A	30-Sep-2010 A	\$3,038,248	\$2,973,179	97.9	\$2,763,802 \$2,763,802				
	Status:	within the Sa cost to constr dredging cycl Dredging cor schedule for for Cycles 2 a material dred sediment mat to assist in th between elev- allowed 10 to	bine National ruct all cycles le 1 was \$3,41 thract on Febru the Calcasieu and 3. Constru ged from the 0 terial were pla e dewatering 0 ations 2.03 Na o 20 percent of	Wildlife Refuge usin is approximately \$21 2,415. The project war 16, 2001. Constraint River. On January 28 action of Cycle 2 was Calcasieu River Ship ced into the Sabine Rof the marsh creation AVD 88 and 2.71 NA	g material dredged of 4 million. The first as advertised for bid uction initiation was, 2004, the CWPPR completed in 2009. Channel. Between Fefuge Cycle 3 marsh disposal area and to LVD 88. Construction I to splay into the su	oject List 8. The project out of the Calcasieu Ricycle was completed of as a component of the sadvanced in conjunct A Task Force provided Cycle 3 consists of the February 12 and March a creation area. Lower create fringe marsh we on of low level weirs all rrounding area. Conta	iver Ship Channel. Ton February 26, 2002 e Calcasieu River an tion with an accelerad additional funding e creation of 232 across 131, 2007, 828,767 elevel earthen overflowth the overflow. The long north and west	The current estimate 2. The total project d Pass Maintenance defended and construction a res of marsh platfor cubic yards of dred ow weirs were conse dredged slurry was boundary of Cycle	ed project cost for e redging pproval m using lged structed as placed 3					

\$20,792,348

\$20,727,280

99.7

- 3 Project(s)
- 3 Cost Sharing Agreements Executed

Total Priority List COE 8

662

- 3 Construction Started
- 3 Construction Completed
- 0 Project(s) Deferred/Deauthorized

- 1. Expenditures based on Corps of Engineers financial data.
- 2. Date codes: A = Actual date *= Behind schedule
- 3. Percent codes: ! = 125% of baseline estimate exceeded

COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT

Project Status Summary Report by Project Priority List

************ SCHEDULES ******** ****** ESTIMATES ******* Obligations/
CSA Const Start Const End Approved Funded % Expenditures

Priority List 8

PROJECT

Lead Agency: FWS, FISH & WILDLIFE SERVICE

Sabine Refuge Marsh Creation, Cycles 4 & 5 CA/SB

BASIN

CAMER

PARISH

331

ACRES

06-May-2014 A 01-Aug-2014 A

07-Jul-2015 A

\$6,600,560

\$6,081,184

92.1 \$5,903,732

\$5,863,405

06-May-2019 Page 61

Status:

Cycle 4 was completed on 1/15/2015 with 230 acres of marsh platform being constructed with material pumped from the Calcasieu River Ship Channel through CWPPRA's permanent pipeline. Cycle 5 was completed on 7/7/2015 with approximately 232 acres of marsh platform being constructed with material pumped from the ship channel. This material was also pumped through CWPPRA's permanent pipeline. In addition to Cycles 4 & 5 being constructed, CWPPRA had the opportunity to work with the Port of Lake Charles and the USACE in constructing low level containment dikes to help contain the approximately 1 million Cyds of material the Port paid to be placed in an open water site on Sabin Refuge just south of Cycles 1-5 (Unit 1A-North). This created approximately 240 acres of marsh platform and was completed on 11/21/2014. CWPPRA also funded the Corps to place approximately 1 million Cyds of material to be place and contained with low level earthen dikes in Unit 1A-South. This created approximately 171 acres of marsh platform and nourished the surrounding marsh which was completed on 6/15/2015. The overflow of material from the two areas in Unit 1A is unknown, but it is believed to have created 300-400 acres of mudflats that will hopefully become vegetated in the near future.

Total Priority List FWS 8

331

\$6,600,560

\$6,081,184

92.1 \$5,903,732

\$5,863,405

- 1 Project(s)
- 1 Cost Sharing Agreements Executed
- 1 Construction Started
- 1 Construction Completed
- 0 Project(s) Deferred/Deauthorized

- 1. Expenditures based on Corps of Engineers financial data.
- 2. Date codes: A = Actual date * = Behind schedule
- 3. Percent codes: ! = 125% of baseline estimate exceeded

COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT

Project Status Summary Report by Project Priority List

				*****	** SCHEDULES	****	****** F S	STIMATES ****	****	Actual Obligations/
PROJECT	BASIN	PARISH	ACRES	CSA	Const Start	Const End	Approved	Funded	%	Expenditures
Priority List	8	Lea	ad Agency:	NMFS, NAT	IONAL MARI	NE FISHERIES	SERVICE			
Bayou Bienvenue F Station Diversion	rump PONT	STBER		01-Jun-2000 A			\$212,153	\$212,153	100.0	\$212,153
DEAUTHORIZED	Status:					gn analyses indicate the project is estimated to				\$212,153
				k Force meeting, DN ed by the Task Force		FS requested initiation 02 meeting.	of the deauthorizati	on procedure.		
Hopedale Hydro Restoration	PONT	STBER	134	11-Jan-2000 A	10-Jan-2004 A	15-Jan-2005 A	\$2,281,287	\$2,281,287	100.0	\$1,987,593
Restoration	Status:	investigation requirements COnstruction	s and hydrolog are complete. In was complete	ic modeling complet A construction contr	e. Landrights for the act was awarded in Ind the project is current.	and design is comple major project feature November 2003, and c rently being operated b	are complete. NEPA construction was init	A compliance and nated in March 200)4.	\$1,987,223
	Total Priority List NMF	S 8	134				\$2,493,439	\$2,493,439	100.0	\$2,199,746

- 2 Project(s)
- 2 Cost Sharing Agreements Executed
- 1 Construction Started
- 1 Construction Completed
- 1 Project(s) Deferred/Deauthorized

Notes:

- 1. Expenditures based on Corps of Engineers financial data.
- 2. Date codes: A = Actual date * = Behind schedule
- 3. Percent codes: ! = 125% of baseline estimate exceeded

06-May-2019 Page 62

A etual

\$2,199,376

COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT

Project Status Summary Report by Project Priority List

06-May-2019 Page 63

PROJECT	BASIN	PARISH	ACRES	**************************************	** SCHEDULES Const Start	********** Const End	****** ES	TIMATES **** Funded	**** %	Actual Obligations/ Expenditures
Priority List 8		Lea	d Agency:	NRCS,						
Humble Canal Hydrologic Restoration	MERM Status:	CAMER Construction	378 complete Marci	21-Mar-2000 A h 2003.	01-Jul-2002 A	01-Mar-2003 A	\$1,574,926	\$1,574,926	100.0	\$1,250,297 \$1,240,096
Lake Portage Land Bridge	TECHE Status:	VERMI Project constr	24 ruction was con	07-Apr-2000 A	15-Feb-2003 A 2004. Monitoring P	15-May-2004 A lan was finalized on Ju	\$1,181,129 ly 19, 2004	\$1,181,129	100.0	\$1,152,133 \$1,149,178
Upper Oak River Freshwater Siphon DEAUTHORIZED	BRET Status:	of the outflow Project feasib	v channel. Fund	ding of the siphon w	rill be requested who licited a cost estima	2,500,000 for completion en engineering and des te from one of their en	ign are completed.	-		\$56,476 \$56,476

Notes:

1. Expenditures based on Corps of Engineers financial data.

Deauthorization procedures initiated.

- 2. Date codes: A = Actual date * = Behind schedule
- 3. Percent codes: ! = 125% of baseline estimate exceeded

COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT

06-May-2019 Page 64

Project Status Summary Report by Project Priority List

			******* SCHEDULES ******* ***** ESTIMATES ******* Ob								
PROJECT	BASIN	PARISH	ACRES	CSA	Const Start	Const End	Approved	Funded	%	Expenditures	
	Total Priority List NRCS	8	402				\$2,812,531	\$2,812,531	100.0	\$2,458,906 \$2,445,750	
2 2 2	Project(s) Cost Sharing Agreements E Construction Started Construction Completed Project(s) Deferred/Deauthor										
PPL Total 8				:	1,529		\$32,698,879	\$32,114,434	98.2	\$27,825,420 \$27,770,114	

- 9 Project(s)
- 8 Cost Sharing Agreements Executed
- 7 Construction Started
- 7 Construction Completed
- 2 Project(s) Deferred/Deauthorized

- 1. Expenditures based on Corps of Engineers financial data.
- 2. Date codes: A = Actual date * = Behind schedule
- 3. Percent codes: ! = 125% of baseline estimate exceeded

COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT

Project Status Summary Report by Project Priority List

06-May-2019 Page 65

Actual

				*****	**** SCHEDULES	*****	****** ES	TIMATES ****	****	Obligations/
PROJECT	BASIN	PARISH	ACRES	CSA	Const Start	Const End	Approved	Funded	%	Expenditures
Priority List 9		Lea	nd Agency:	COE, COR	PS OF ENGINE	ERS				
Freshwater Bayou Bank	TECHE	VERMI	241				\$1,101,738	\$1,101,738	100.0	\$1,101,738
Stabilization - Belle Isle Canal to Lock INACTIVE	Status:	14, 2001, and on cross-section we	data collection ions and depthe ork only dropping	followed. The Use contours. A 30% of	Local Sponsor and lan SACE team met with I design review was held estoration feature. A 95 2007.	LDNR staff after surve l in June 2002. The pr	ey data was processed roject was revised to	d and obtained cor include Area A - s	nsensus	\$1,101,738
Opportunistic Use of the	PONT	STCHA					\$83,932	\$83,932	100.0	\$83,932
Bonnet Carre Spillway DEAUTHORIZED	Status:	accordance w requesting the	vith the CWPPF eir comments a	RA Project Standa	eeting, the Task Force rd Operating Procedur that, at the next CWPF	es Manual, notices we	ere sent out in July 20	007 to all intereste	d parties	\$83,932
Periodic Intro of	COAST	VARY					\$83,556	\$83,556	100.0	\$83,556
Sediment &Nutrients Demo DEAUTHORIZED	Status:	Modification working on u	to Caenarvon,	to ensure consiste reflect post-Katr	trina workload. In Novency. Currently the teatina price levels. Also,	m needs to fully devel	op Preliminary Desi	gn Report. Team	is	\$83,556

- 1. Expenditures based on Corps of Engineers financial data.
- 2. Date codes: A = Actual date * = Behind schedule
- 3. Percent codes: ! = 125% of baseline estimate exceeded

COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT

06-May-2019 Page 66

Actual

Project Status Summary Report by Project Priority List

				********** SCHEDULES **********			****** ES	****	Obligations/	
PROJECT	BASIN	PARISH	ACRES	CSA	Const Start	Const End	Approved	Funded	%	Expenditures
Weeks Bay MC & SP TRANSFER	ТЕСНЕ	IBERI	278				\$534,057	\$534,057	100.0	\$534,057 \$534,057
TRUE OF ER	Status:				RA Program per Task I er their 3 Jun 2013 req		n 2013. It was trans	ferred to the Iberia	Parish	\$334,03 <i>1</i>
Total	Priority List COE	9	519				\$1,803,283	\$1,803,283	100.0	\$1,803,283 \$1,803,283

- 4 Project(s)
- 0 Cost Sharing Agreements Executed
- 0 Construction Started
- 0 Construction Completed
- 2 Project(s) Deferred/Deauthorized

- 1. Expenditures based on Corps of Engineers financial data.
- 2. Date codes: A = Actual date * = Behind schedule
- 3. Percent codes: ! = 125% of baseline estimate exceeded

COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT

Project Status Summary Report by Project Priority List

06-May-2019 Page 67

			1 Toject St	attas Sammary	report by 110	ject i nonty 1215	•			Actual
PROJECT	BASIN	PARISH	ACRES	**************************************	** SCHEDULES Const Start	********* Const End	****** Es Approved	STIMATES **** Funded	**** %	Obligations/ Expenditures
Priority List 9		Lea	d Agency:	EPA, REGIO	ON 6					
LA Highway 1 Marsh Creation DEAUTHORIZED	BARA Status:	LAFOU The project w	vas deauthorized	05-Oct-2000 A d at the February 17,	, 2005 Task Force n	neeting.	\$250,257	\$250,257	100.0	\$250,257 \$250,257
New Cut Dune and Marsh Restoration	TERRE Status:			01-Sep-2000 A as held on April 23, accrement activities in		30-Sep-2008 A for Phase II constructions inspections.	\$10,730,085 tion activities was cl	\$10,617,937 osed-out on Septen	99.0 nber 30,	\$10,192,472 \$10,192,472
Timbalier Island Dune & Marsh Restoration	TERRE Status:		_	05-Oct-2000 A as held on April 23, accrement activities in	•	19-Mar-2009 A t for Phase II constructions inspections.	\$15,429,669 tion activities was cl	\$15,416,473 osed-out on March	99.9 19,	\$15,199,419 \$15,197,826
Total Priorit	y List EPA	9	375				\$26,410,011	\$26,284,667	99.5	\$25,642,148 \$25,640,555

- 3 Project(s)
- 3 Cost Sharing Agreements Executed
- 2 Construction Started
- 2 Construction Completed
- 1 Project(s) Deferred/Deauthorized

- 1. Expenditures based on Corps of Engineers financial data.
- 2. Date codes: A = Actual date * = Behind schedule
- 3. Percent codes: ! = 125% of baseline estimate exceeded

COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT

Project Status Summary Report by Project Priority List

06-May-2019 Page 68

Const End

****** SCHEDULES ******* **Const Start**

****** ESTIMATES ******

Funded

%

Approved

Actual Obligations/ Expenditures

Priority List 9

PROJECT

Lead Agency: FWS, FISH & WILDLIFE SERVICE

CSA

Notes:

- 1. Expenditures based on Corps of Engineers financial data.
- 2. Date codes: A = Actual date * = Behind schedule

BASIN

PARISH ACRES

3. Percent codes: ! = 125% of baseline estimate exceeded

COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT

Project Status Summary Report by Project Priority List

			_	-	** SCHEDULES	*****		STIMATES ****	****	Actual Obligations/
PROJECT	BASIN	PARISH	ACRES	CSA	Const Start	Const End	Approved	Funded	%	Expenditures
Freshwater Introduction South of Highway 82	MERM	CAMER	296	12-Sep-2000 A	01-Sep-2005 A	13-Dec-2006 A	\$6,342,505	\$5,360,016	84.5	\$5,183,114 \$5,182,815

Highway 82 Freshwater Introduction

Status July 2005

Status:

The project was approved for Phase I engineering and design on January 11, 2000. An initial implementation meeting was held in April 2000; field trips were held in May and June 2000. The FWS/DNR Cost Share Agreement was signed on September 12, 2000. Elevational surveys of marsh levels and existing water monitoring stations and control points were completed by Lonnie Harper and Associates on October 26, 2000.

A hydrologic study of the project area entitled, "Analysis of Water Level Data from Rockefeller Refuge and the Grand and White Lakes Basin" was submitted by Erick Swenson (LSU Coastal Ecology Institute) in October 2001. That report concluded that a "precipitationinduced" water level gradient (0.6 feet or greater 50% of the time) existed between marshes north of Highway 82 and the target marshes in the Rockefeller Refuge south of that highway. That gradient was 1.5 feet or greater 30% of the time. Marsh levels varied from 1.0 to 1.2 feet NAVD88 north and to 1.0 to 1.4 feet NAVD88 south of Highway 82. The project hydrology ahs been modeled by Fenstermaker and Associates as described below.

Hydrodynamic Modeling Study

Fenstermaker and Associates began a hydrodynamic modeling study of the project on January 28, 2002. A model set-up interagency meeting was held May 24, 2002. The one-dimensional "Mike 11" model was used for the analysis. Model calibration and verification were completed November 21, 2002, and December 12, 2002 respectively. A draft modeling report was presented in April 2003, and a final report was presented in September 2003.

Model Results

The model indicated that the project, with a number of original features removed or reduced, would significantly flow freshwater south of Hwy 82 to reduce salinities in the project area. The model results suggested the following modifications to the conceptual project; 1) removal of the Boundary Line borrow canal plug, 2) removal of the northeastern north-south canal, 3) removal of 2 of the recommended four 3-48 inch-diameter-culverted structures along the boundary canal, 4) relocate the new Dyson structure to the north, and 5) removal of the Big Constance structure modification feature. The incorporation of these recommendations would significantly reduce project costs.

30% Design Review Meeting

Notes:

- 1. Expenditures based on Corps of Engineers financial data.
- 2. Date codes: A = Actual date * = Behind schedule
- 3. Percent codes: ! = 125% of baseline estimate exceeded

06-May-2019 Page 69

PROJECT

COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT

Project Status Summary Report by Project Priority List

****** SCHEDULES ******* **Const Start**

***** ESTIMATES ******

Funded

Approved

Actual Obligations/ **Expenditures**

%

A favorable 30% Design Review meeting was held on May 14, 2003 with USFWS concurrence to proceed to final design. On July 10, 2003 the LA Department of Natural Resources gave concurrence to proceed with project construction.

CSA

NEPA Review

PARISH ACRES

The Corps and LA Dept of Natural Resources permit and consistency applications were submitted on January 30, 2004. DNR's initial and modified Consistency Determinations were received on March 11, 2004, and June 3, 2004 respectively. The modified Corps permit applications were submitted May 27, 2004. The Corps public notices were issued on June 18, 2004. LA Dept. of Transportation letters of no objection were received on October 2, 2003, February 2, 2004, and April 19, 2004. The Corps Section 404 permits were received on March 10 and March 18, 2005. The draft Environmental Assessment was submitted for agency review on September 10, 2004, and the Final Environmental Assessment and Finding of No Significant Impact was distributed on April 12, 2005.

Phase II Construction Items

A successful 95% Design Review Meeting was held on August 11, 2004. The NRCS Overgrazing Determination was received December 1, 2003. The Corps Section 303(e) Determination received from the Corps on May 6, 2004. Landrights were certified by the LA DNR as completed on May 10, 2004.

Phase II construction funding approval was received at the October 2004 Task Force meeting.

Construction bids were received by June 21, 2005. Construction is anticipated to begin by July 15, 2005.

Mandalay Bank Protection Demo **COMPLETE**

TERRE

BASIN

TERRE

0

06-Dec-2000 A

25-Apr-2003 A

01-Sep-2003 A

Const End

\$1,732,498

\$1,732,498

100.0

\$1,732,498

\$1,732,498

Status: Construction was completed 9/1/2003.

Notes:

- 1. Expenditures based on Corps of Engineers financial data.
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- 3. Percent codes: ! = 125% of baseline estimate exceeded

06-May-2019 Page 70

COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT

Project Status Summary Report by Project Priority List

06-May-2019 Page 71

Actual

				****** SCHEDULES *******			****** ES	Obligations/		
PROJECT	BASIN	PARISH	ACRES	CSA	Const Start	Const End	Approved	Funded	%	Expenditures
Т	Total Priority List FWS	9	296				\$8,075,003	\$7,092,514	87.8	\$6,915,612 \$6,915,313

- 2 Project(s)
- 2 Cost Sharing Agreements Executed
- 2 Construction Started
- 2 Construction Completed
- 0 Project(s) Deferred/Deauthorized

- 1. Expenditures based on Corps of Engineers financial data.
- 2. Date codes: A = Actual date * = Behind schedule
- 3. Percent codes: ! = 125% of baseline estimate exceeded

COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT

Project Status Summary Report by Project Priority List

06-May-2019 Page 72

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PROJECT	BASIN	PARISH	ACRES	**************************************	** SCHEDULES Const Start	******** Const End	****** ES Approved	TIMATES **** Funded	***** %	Obligations/ Expenditures
Priority List 9		Lea	d Agency:	NMFS, NAT	IONAL MARI	NE FISHERIES	SERVICE			
Castille Pass Channel Sediment Delivery DEAUTHORIZED	ATCH Status:	issuance. The	ese special awa		enance dredging for	on features, the COE is perpetuity) are not ye				\$1,717,883 \$1,717,883
Chandeleur Islands Marsh Restoration COMPLETE	PONT Status:	years. Pilot planting	project comple	eted in June, 2000. F	First phase of vegeta	31-Jul-2001 A we planting is schedule tive plantings comple meters. Project area	ted July 2001 with in	nstallation of appr	oximately	\$839,927 \$839,927
East Grand Terre Island Restoration TRANSFER	BARA Status:	JEFF The project is	335 anticipated to	21-Sep-2000 A be transfered to the G	CIAP program for co	onstruction.	\$2,211,739	\$2,211,739	100.0	\$2,211,739 \$2,211,739

- 1. Expenditures based on Corps of Engineers financial data.
- 2. Date codes: A = Actual date * = Behind schedule
- 3. Percent codes: ! = 125% of baseline estimate exceeded

COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT

Project Status Summary Report by Project Priority List

06-May-2019 Page 73

Actual

				******	** SCHEDULES	***** ES	STIMATES ****	****	Obligations/		
PROJECT	BASIN	PARISH	ACRES	CSA	Const Start	Const End	Approved	Funded	%	Expenditures	
Four Mile Canal Terracing and Sediment	TECHE	VERMI	167	25-Sep-2000 A	10-Jun-2003 A	23-May-2004 A	\$3,792,936	\$2,241,155	59.1	\$2,132,077 \$2,107,541	
Trapping	Status:			•		ported the project is s at this time an O&M d	~ ~		g the 4-	\$2,107,341	
LaBranche Wetlands Terracing, Planting &	PONT	STCHA		21-Sep-2000 A			\$306,836	\$306,836	100.0	\$306,836	
Shoreline Prot DEAUTHORIZED	Status:	Cooperative A	Agreement was	s awarded September	21, 2000. Enginee	ering and design comp	elete. Construction is	s scheduled for 200)2.	\$306,836	
DEACHIONIZED		_	sk Force approved Phase 2 funding at January 10, 2001 meeting. In a letter dated September 7, 2001, NMFS returned Phase 2 funding cause of waning landowner support. Deauthorization is not requested at this time.								
Total I	Priority List NMFS	9	722				\$8,869,321	\$7,317,540	82.5	\$7,208,462 \$7,183,926	

- 5 Project(s)
- 5 Cost Sharing Agreements Executed
- 2 Construction Started
- 2 Construction Completed
- 2 Project(s) Deferred/Deauthorized

- 1. Expenditures based on Corps of Engineers financial data.
- 2. Date codes: A = Actual date * = Behind schedule
- 3. Percent codes: ! = 125% of baseline estimate exceeded

COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT

06-May-2019 Page 74

Actual

Project Status Summary Report by Project Priority List

				******	*** SCHEDULES	*****	****** E	Obligations/		
PROJECT	BASIN	PARISH	ACRES	CSA	Const Start	Const End	Approved	Funded	%	Expenditures
Priority List 9		Lea	nd Agency:	NRCS,						
Barataria Basin Landbridge Shoreline	BARA	JEFF	264	25-Jul-2000 A	20-Oct-2003 A	30-Sep-2018*	\$46,231,596	\$37,250,870	80.6	\$25,632,860 \$25,385,321
Protection, Ph 3	Status:				ruary 2017, with exc his 400-foot section.	eption of about 400 fo	eet with poor underly	ying soils. An addi	tional	Ψ23,303,321
Black Bayou Culverts Hydrologic Restoration	CA/SB	CAMER	540	25-Jul-2000 A	25-May-2005 A	26-Jan-2010 A	\$16,899,059	\$16,326,810	96.6	\$14,611,776 \$14,611,776
	Status:	-	_		-	een completed and wing contracting decision		or construction in S	Summer	
Little Pecan Bayou Hydrologic Restoration	MERM	CAMER		25-Jul-2000 A			\$1,303,713	\$1,303,713	100.0	\$1,303,713 \$1,303,713
DEAUTHORIZED	Status:	Project was d	leauthorized at S	Spring 2012 Task F	Force meeting for the	following reasons:				\$1,505,715
		•The current l		features do not yield	d sufficient wetland l	penefits to warrant a F	Phase II request for c	onstruction and twe	enty	

•Within the current project scope, the CPRA has concerns over public vandalism.

- 1. Expenditures based on Corps of Engineers financial data.
- 2. Date codes: A = Actual date * = Behind schedule
- 3. Percent codes: ! = 125% of baseline estimate exceeded

COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT

06-May-2019 Page 75

Actual

Project Status Summary Report by Project Priority List

				*****	** SCHEDULES	*****	****** E	STIMATES ****	****	Obligations/
PROJECT	BASIN	PARISH	ACRES	CSA	Const Start	Const End	Approved	Funded	%	Expenditures
Perry Ridge West Bank	CA/SB	CAMER	83	25-Jul-2000 A	01-Nov-2001 A	31-Jul-2002 A	\$2,204,709	\$2,192,355	99.4	\$1,888,251
Stabilization	Status:	The Perry Ric	dge project app	proved on Priority Li	st 4 was the first pha	ase of this project. Thi	s is the second and f	final phase of the pr	oject.	\$1,876,342
		-	pproved Phase on has been cor		ng January 10, 2001	. The rock bank prote	ction is installed. Th	ne contract for the to	erraces	
South Lake Decade Freshwater Introduction	TERRE	TERRE	202	25-Jul-2000 A	24-Jan-2011 A	12-Jul-2011 A	\$4,901,784	\$3,432,948	70.0	\$3,368,964 \$3,362,211
Treshwater introduction	Status:		Unit #1 was completed and completed		2011. CPRA did no	ot agree to proceed wi	th 2nd construction	unit, therefore proj	ect was	φ3,302,211
Total Prior	rity List NRCS	9	1,089				\$71,540,861	\$60,506,696	84.6	\$46,805,564
Total Tilol	ing Zist Titles		1,007				ψ, 1,5 to,001	Ψου,200,070	54.0	\$46,539,363

- 5 Project(s)
- 5 Cost Sharing Agreements Executed
- 4 Construction Started
- 3 Construction Completed
- 1 Project(s) Deferred/Deauthorized

- 1. Expenditures based on Corps of Engineers financial data.
- 2. Date codes: A = Actual date * = Behind schedule
- 3. Percent codes: ! = 125% of baseline estimate exceeded

COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT

Project Status Summary Report by Project Priority List

06-May-2019 Page 76 **Actual**

				*****	**** SCHEDULES *	*****	****** I	ESTIMATES ***	****	Obligations/
PROJECT	BASIN	PARISH	ACRES	CSA	Const Start	Const End	Approved	Funded	%	Expenditures
PPL Total 9				;	3,001		\$116,698,480	\$103,004,700	88.3	\$88,375,068 \$88,082,440

- 19 Project(s)
- 15 Cost Sharing Agreements Executed
- 10 Construction Started
- 9 Construction Completed
- 6 Project(s) Deferred/Deauthorized

- 1. Expenditures based on Corps of Engineers financial data.
- 2. Date codes: A = Actual date * = Behind schedule
- 3. Percent codes: ! = 125% of baseline estimate exceeded

COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT

Project Status Summary Report by Project Priority List

06-May-2019 Page 77

Actual

PROJECT	************ SCHEDULES ******** ******* ESTIMATES *** BASIN PARISH ACRES CSA Const Start Const End Approved Funded									Obligations/
PROJECT	BASIN	PARISH	ACRES	CSA	Const Start	Const End	Approved	Funded	%	Expenditures
Priority List 10		Lea	nd Agency:	COE, CORI	PS OF ENGINE	ERS				
Benneys Bay Diversion DEAUTHORIZED	DELTA	PLAQ					\$978,100	\$978,100	100.0	\$978,100 \$978,100
	Status:	Subcommitte performed in 2002. At the sediment rete developed an	e in May 2001. October 2001 a design review r ntion enhancen d is being revie	Right of Entry to pand geotechnical be meeting agreement devices) which wed by the LDNR	n PPL9 in January 19 perform surveys and g orings were collected was reached to proceed h were removed at the . A revised WVA and mplete all design wor	eotechnical borings value 2002. A 30% and further with the pro- request of the local states design cost estimate	vas received in Augu design review was c oposed design excep ponsor. A Final Des are in preparation fo	ast 2001. Site surve ompleted in Septer t for one feature (S ign Report has bee r review at the CW	eys were mber REDs - n	77.0,
Delta Building Diversion	BARA	JEFF	8,891				\$2,543,325	\$2,543,325	100.0	\$2,543,325
at Myrtle Grove TRANSFER	Status:	agencies invo will be requir and allow the	olved with this pred over and about to outline mascoping docume	project. The currer ove the proposed n ajor data and analy	effort, and its relation nt view within the man nodeling. At this time tic requirements for the filed. An initial Value	nagement team is that , it has been decided ne NEPA document.	additional fisheries to begin assembling The required NEPA	data collection and an inter-agency EI scoping meetings l	analysis S team nave been	\$2,543,325
Delta Building Diversion North of Fort St. Philip	BRET	PLAQ					\$1,178,640	\$1,178,640	100.0	\$1,178,640 \$1,178,640
DEAUTHORIZED	Status:	95% desgin r	eview anticipat	ed July 25, 2007.						Ψ1,170,040

- 1. Expenditures based on Corps of Engineers financial data.
- 2. Date codes: A = Actual date * = Behind schedule
- 3. Percent codes: ! = 125% of baseline estimate exceeded

COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT

Project Status Summary Report by Project Priority List

06-May-2019 Page 78

			v	******	*** SCHEDULES *	*****	****** ES	TIMATES ****	****	Actual Obligations/
PROJECT	BASIN	PARISH	ACRES	CSA	Const Start	Const End	Approved	Funded	%	Expenditures
Total Pr	iority List COE	10	8,891				\$4,700,066	\$4,700,066	100.0	\$4,700,066 \$4,700,066

- 3 Project(s)
- 0 Cost Sharing Agreements Executed
- 0 Construction Started
- 0 Construction Completed
- 2 Project(s) Deferred/Deauthorized

- 1. Expenditures based on Corps of Engineers financial data.
- 2. Date codes: A = Actual date * = Behind schedule
- 3. Percent codes: ! = 125% of baseline estimate exceeded

COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT

Project Status Summary Report by Project Priority List

06-May-2019 Page 79

Actual

****** SCHEDULES ******* ***** ESTIMATES ****** Obligations/ **PROJECT BASIN** PARISH ACRES **CSA Const Start** Const End **Funded** % **Expenditures** Approved **Priority List** 10 Lead Agency: EPA, REGION 6 Hydrologic Restoration & **BARA** STJAM 0 08-Oct-2001 A 01-Nov-2017 * 31-Mar-2018 * \$7,886,704 \$5,220,448 66.2 \$4,673,299 Vegetative Planting in the \$2,508,177 After extensive field work/surveys and modeling efforts in 2014 and 2015, the Project Management Team completed the Engineering & Lac des Allemands Swamp Status: Design Plans. A 30% design meeting was held on July 23, 2015, followed by the 95% design meeting on October 28, 2015. The BA 34-2 project was presented to the Tech Committee at the December 10, 2015 meeting. On January 22, 2016, the CWPPRA Task Force approved by electronic vote the Technical Committee's recommendation to approve the BA 34-2 project for Phase II funding. A new Cooperative Agreement is currently being put into place for Phase II project construction. Construction is estimated to start in December 2016. **PONT STBER** \$20,439,994 Lake Borgne Shoreline 165 02-Oct-2001 A 01-Aug-2007 A 12-Apr-2010 A \$27,479,959 \$27,226,547 99.1 Protection \$20,309,754 Status: Construction grant has expired and final Phase 1 activities in the process of being closed-out. Total Priority List EPA 10 165 \$35,366,663 91.7 \$25,113,293 \$32,446,995 \$22,817,930

- 2 Project(s)
- 2 Cost Sharing Agreements Executed
- 1 Construction Started
- 1 Construction Completed
- 0 Project(s) Deferred/Deauthorized

- 1. Expenditures based on Corps of Engineers financial data.
- 2. Date codes: A = Actual date * = Behind schedule
- 3. Percent codes: ! = 125% of baseline estimate exceeded

Hydrologic Restoration

COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT

Project Status Summary Report by Project Priority List

	****** SCHEDULES ****** *** ESTIMATES *****									*** Obligations/	
PROJECT	BASIN	PARISH	ACRES	CSA	Const Start	Const End	Approved	Funded	%	Expenditures	
Priority List 10		Lea	d Agency:	FWS, FISH &	& WILDLIFE S	SERVICE					
Delta Management at Fort St. Philip	BRET	PLAQ	267	16-May-2001 A	19-Jun-2006 A	14-Dec-2006 A	\$2,739,727	\$2,383,455	87.0	\$1,958,227	
St. 1 mmp	Status:	This project v	vas completed	in 2006. Monitoring	g is ongoing and no	maintenance has been	conducted.			\$1,776,169	
East Sabine Lake	CA/SB	CAMER	225	17-Jul-2001 A	01-Dec-2004 A	11-Aug-2009 A	\$6,049,990	\$5,006,506	82.8	\$4,860,552	

Status:

A joint FWS- NRCS-DNR cost-share agreement was completed on July 17, 2001. FTN completed hydrodynamic modeling for the proposed water control structures at Right Prong, Greens, Three and Willow Bayous. The "East Sabine Lake Hydrologic Restoration Hydrodynamic Modeling Study Phase II: Calibration and Verification Report," "Historical Data Review Modeling Phase III Data and Final Report," and the "Phase III Determination of Boundary Conditions for Evaluating Project Alternatives" were completed October 5, 2004. With-project model runs that included modeling of fixed crest weirs with boat bays (10 feet wide by 4 feet deep) at Willow, Three, Greens and Right Prong Black Bayous were completed. Hydrodynamic modeling results predicted that the proposed structures would have very little effect in reducing project area salinities. Therefore Phase 2 of the project that involved structures on the above bayous were removed from the project. The first portion of Construction Unit 1 was completed in October 2006. The following project features were constructed: 1) Pines Ridge Bayou weir, 2) Bridge Bayou culverts, 3) 171,000 linear feet of earthen terraces in the Greens Lake area, 4) 3,000 linear feet of rock breakwater, with 50-foot wide gaps, at the eastern Sabine Lake shoreline beginning at Willow Bayou, and, 5) a rock weir in SE Section 16. Project The proposed 11 miles (58,100 linear feet) of planned Sabine Lake shoreline plantings were removed and more earthen terraces were added using vegetative planting funds because of an unsuccessful 7,500 linear foot test planting along the Sabine Lake shoreline conducted by the State Soil and Water Conservation District and the NRCS. The CWPPRA Task Force approved adding 50,000 linear feet of terraces, constructing 4, 50-foot-wide gaps in the rock breakwater, and deleting Construction Unit 2 components in October 2006 based on hydrodynamic modeling results. The Pines Bayou weir was rehabilitated in August 2007 due to heavy damage caused by Hurricane Rita. Four 50-foot wide gaps were also installed in August 2007, in the 3,000 foot-long rock breakwater near Willow Bayou. 50,000 linear feet of additional earthen terraces were constructed in January 2008. The Cameron Parish Drainage District No. 7 replaced the Section 16 rock weir in 2015. The project will be in it's current operation and maintenance phase until the end of its 20-year life in 2029.

Notes:

- 1. Expenditures based on Corps of Engineers financial data.
- 2. Date codes: A = Actual date *= Behind schedule
- 3. Percent codes: ! = 125% of baseline estimate exceeded

06-May-2019 Page 80

Actual

\$4,788,001

COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT

06-May-2019 Page 81

Actual

Project Status Summary Report by Project Priority List

				*****	** SCHEDULES	*****	***** ES	STIMATES ****	****	Obligations/
PROJECT	BASIN	PARISH	ACRES	CSA	Const Start	Const End	Approved	Funded	%	Expenditures
Grand-White Lake	MERM	CAMER	213	24-Jul-2001 A	10-Jul-2003 A	01-Oct-2004 A	\$8,584,334	\$4,888,460	56.9	\$3,944,371
Landbridge Restoration	Status:	###########	#####							\$3,890,628
North Lake Mechant Landbridge Restoration	TERRE	TERRE	604	16-May-2001 A	01-Apr-2003 A	16-Dec-2009 A	\$36,734,873	\$35,280,966	96.0	\$34,386,221
Landoridge Restoration	Status:	Construction	of this project	has been completed.	This project is now	v in the Operation and	Maintenance Phase.			\$34,386,221
Terrebonne Bay Shore Protection Demo	COAST	TERRE	0	24-Jul-2001 A	25-Aug-2007 A	19-Dec-2007 A	\$2,747,094	\$2,747,094	100.0	\$2,717,853
COMPLETE	Status:	This demonst	ration project	is in its last year. We	e will start the close	out process soon.				\$2,713,702
Total Prior	ity List FWS	10	1,309				\$56,856,018	\$50,306,481	88.5	\$47,867,224 \$47,554,721

- 5 Project(s)
- 5 Cost Sharing Agreements Executed
- 5 Construction Started
- 5 Construction Completed
- 0 Project(s) Deferred/Deauthorized

- 1. Expenditures based on Corps of Engineers financial data.
- 2. Date codes: A = Actual date * = Behind schedule
- 3. Percent codes: ! = 125% of baseline estimate exceeded

COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT

Project Status Summary Report by Project Priority List

06-May-2019 Page 82

Actual

PROJECT	BASIN	PARISH	ACRES	******* CSA	** SCHEDULES Const Start	********** Const End	****** ES Approved	TIMATES **** Funded	**** %	Obligations/ Expenditures
Priority List 10		Lea	d Agency:	NMFS, NAT	IONAL MARI	NE FISHERIES	SERVICE			
Rockefeller Refuge Gulf Shoreline Stabilization	MERM Status:	_		27-Sep-2001 A ing will occur on Ma orization in Decemb	•	15-Feb-2018 * 95% Design Meeting	\$34,330,522 s scheduled for Septe	\$33,337,316 ember 30, 2014. NN	97.1 MFS	\$28,937,343 \$3,044,487
Total Priorit	y List NMFS	10	256				\$34,330,522	\$33,337,316	97.1	\$28,937,343 \$3,044,487

- 1 Project(s)
- 1 Cost Sharing Agreements Executed
- 0 Construction Started
- 0 Construction Completed
- 0 Project(s) Deferred/Deauthorized

- 1. Expenditures based on Corps of Engineers financial data.
- 2. Date codes: A = Actual date * = Behind schedule
- 3. Percent codes: ! = 125% of baseline estimate exceeded

COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT

Project Status Summary Report by Project Priority List

06-May-2019 Page 83

				1 Toject S	aus Summary	Report by 110	ject i nonty Las	5i			Actual
					*****	** SCHEDULES	*****	*******	ESTIMATES ***	****	Obligations/
PROJEC	T I	BASIN	PARISH	ACRES	CSA	Const Start	Const End	Approved	Funded	%	Expenditures
Priority Lis	st 10		Lea	nd Agency:	NRCS,						
GIWW Bank Res	in	TERRE Status:	TERRE	64	16-May-2001 A	02-May-2013 A	01-Feb-2014 A	\$13,022,246	\$11,259,436	86.5	\$9,390,913 \$9,365,724
Terrebonne	Total Priority List		construction i	in December 20		12. Hojectic-surve	eyed to verify design	\$13,022,246	\$11,259,436	86.5	\$9,390,913 \$9,365,724
	 Project(s) Cost Sharing Agra Construction Star Construction Con Project(s) Deferre 	ted npleted									
PPL Total 1	10				10	,685		\$144,275,514	\$132,050,293	91.5	\$116,008,839 \$87,482,928

- 12 Project(s)
- 9 Cost Sharing Agreements Executed
- 7 Construction Started
- 7 Construction Completed
- 2 Project(s) Deferred/Deauthorized

- 1. Expenditures based on Corps of Engineers financial data.
- 2. Date codes: A = Actual date * = Behind schedule
- 3. Percent codes: ! = 125% of baseline estimate exceeded

COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT

Project Status Summary Report by Project Priority List

06-May-2019 Page 84

Actual

								Obligations/		
PROJECT	BASIN	PARISH	ACRES	CSA	Const Start	Const End	Approved	Funded	%	Expenditures
Priority List 11		Lea	nd Agency:	EPA, REGIO	N 6					
River Reintroduction into Maurepas Swamp	PONT	STJON	5,438	04-Apr-2002 A			\$6,554,124	\$6,554,124	100.0	\$6,554,124 \$6,554,124
TRANSFER	Status:	the project fro funds cease a	om CWPPRA, to s soon as the re	to CPRA in the near equest is made, and E	future. However, C PA and CPRA still	expected to be met by CWPPRA SOP require have some necessary of ject transfer at this tim	s that all project expexpenditures that wi	enditures of CWP	PRA	30,334,124
Ship Shoal: Whiskey	TERRE	TERRE	195	17-Mar-2003 A			\$2,298,822	\$2,298,822	100.0	\$2,298,822
West Flank Restoration INACTIVE	Status:			ed, but not recomme ests will be made.	nded, at the Decemb	oer 2012 Technical Co	ommittee Meeting. S	Sponsors will deter	rmine	\$2,298,822
Total Priority	List EPA	11	5,633				\$8,852,946	\$8,852,946	100.0	\$8,852,946 \$8,852,946

- 2 Project(s)
- 2 Cost Sharing Agreements Executed
- 0 Construction Started
- 0 Construction Completed
- 0 Project(s) Deferred/Deauthorized

- 1. Expenditures based on Corps of Engineers financial data.
- 2. Date codes: A = Actual date * = Behind schedule
- 3. Percent codes: ! = 125% of baseline estimate exceeded

COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT

06-May-2019 Page 85

Actual

Project Status Summary Report by Project Priority List

				******	** SCHEDULES	*****	***** ES	STIMATES ****	****	0			
PROJECT	BASIN	PARISH	ACRES	CSA	Const Start	Const End	Approved	Funded	%	Expenditures			
Priority List 11		Lea	d Agency:	FWS, FISH &	& WILDLIFE S	SERVICE							
Dedicated Dredging on the Barataria Basin Landbridge	BARA Status:	JEFF This project v	605	03-Apr-2002 A in 2010. Monitoring	11-Sep-2008 A	15-Apr-2010 A	\$16,286,153	\$15,951,806	97.9	\$15,819,734 \$15,804,859			
South Grand Chenier Hydrologic Restoration	MERM Status:	CAMER The CWPPRANRCS in Marimplementation 2004. Design Landrights mand 95%	414 A Task Force a rch 2017, but the properties of the surveying was eetings were helign Review me truction fundin	03-Apr-2002 A pproved construction ne bid was unsuccess field trip was held of completed Septembeld between project s etings were held on a g on January 20, 201	01-Jun-2015 A In funding on Januar In funding on Januar In Januar In March 13, 2002. In er 2007. A wave and In ponsors and the may August 6, 2009, and In Due to lack of la	o1-Jun-2019 y 20, 2014. A Construction of the hydrodynamic malysis model and geot jor landowners in 2001 November 3, 2009, andrights from two of nuary 19, 2012, Task	n November or Dece odeling report was co echnical investigatio 12, 2003, and 2006. It respectively. The Tast the seven major land	mber 2017. An ompleted in Septem ns were completed Preliminary design (sk Force approved in owners, project	aber in 2008. (30%) nitial	\$21,068,605 \$2,393,085			
West Lake Boudreaux Shoreline Protection& Marsh Creation	TERRE Status:	2012. Landrig were complete TERRE Annual inspec	ghts were finali ed in April 201 277 ction was comp	zed in 2012 and com 5. Permit modification 03-Apr-2002 A	struction approval vons were received in 24-Jul-2007 A on 4/2016.	South Grand Chenier was again received in a June 2015. The revi 04-Apr-2011 A	January 2014. Revist sed construction star \$\frac{1}{3}\$	ed Plans and specifit date is June 2018. \$17,753,003	cations	\$16,016,480 \$16,015,039			

- 1. Expenditures based on Corps of Engineers financial data.
- 2. Date codes: A = Actual date * = Behind schedule
- 3. Percent codes: ! = 125% of baseline estimate exceeded

COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT

Project Status Summary Report by Project Priority List

06-May-2019 Page 86

Actual

				*****	**** SCHEDULES *	*****	****** ES	TIMATES ****	****	Obligations/
PROJECT	BASIN	PARISH	ACRES	CSA	Const Start	Const End	Approved	Funded	%	Expenditures
To	otal Priority List FWS	11	1,296				\$58,359,460	\$55,987,749	95.9	\$52,904,818 \$34,212,983

- 3 Project(s)
- 3 Cost Sharing Agreements Executed
- 3 Construction Started
- 2 Construction Completed
- 0 Project(s) Deferred/Deauthorized

- 1. Expenditures based on Corps of Engineers financial data.
- 2. Date codes: A = Actual date * = Behind schedule
- 3. Percent codes: ! = 125% of baseline estimate exceeded

COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT

Project Status Summary Report by Project Priority List

06-May-2019 Page 87

1 toject Status Summary Report by 1 toject 1 nonty List										Actual
PROJECT	BASIN	PARISH	ACRES	********* CSA	*** SCHEDULES Const Start	********* Const End	****** ES	STIMATES **** Funded	**** %	Obligations/ Expenditures
Priority List 11		Lea	nd Agency:	: NMFS, NAT	TONAL MAR	INE FISHERIES	S SERVICE			
Little Lake Shoreline Protection/Dedicated Dredging near Round Lake	BARA Status:	hd settled. A	survey will be		ber 7 to help determ	30-Mar-2007 A g the northern section of settle				\$22,143,840 \$22,097,859
Pass Chaland to Grand Bayou Pass Barrier Shoreline Restoration	BARA Status:	dune planting platform appo to determine	gs observed. The ar to be regulused for mech	The marsh creation ar arly flooded by tides	ea and associated co and has about 50% ovide tidal exchange	25-Aug-2009 A ears largely intact and ontainment dikes were to 60% vegetative cov. Based on observed s	also inspected. Maj ver. Marsh fill conta	or portions of the n inment dikes were i	narsh nspected	\$37,730,903 \$37,688,840
Pelican Island and Pass La Mer to Chaland Pass BBI	BARA Status:	PLAQ CU 2 (Pelica:	334 n Island): Con	06-Aug-2002 A	25-Mar-2006 A Joy 2011(A)	28-Nov-2012 A	\$71,170,649	\$70,335,097	98.8	\$69,531,434 \$69,440,050

Heavy Construction Completion - 14 Dec 2012(S) Vegetative Plantings - Fall 2012/Spring 2013(S)

- 1. Expenditures based on Corps of Engineers financial data.
- 2. Date codes: A = Actual date * = Behind schedule
- 3. Percent codes: ! = 125% of baseline estimate exceeded

COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT

Project Status Summary Report by Project Priority List

06-May-2019 Page 88

Actual

				*****	******* SCHEDULES *******			****** ESTIMATES ******			
PROJECT	BASIN	PARISH	ACRES	CSA	Const Start	Const End	Approved	Funded	%	Expenditures	
Total Pri	ority List NMFS	11	1,310				\$141,398,046	\$133,753,939	94.6	\$129,406,177 \$129,226,749	

- 3 Project(s)
- 3 Cost Sharing Agreements Executed
- 3 Construction Started
- 3 Construction Completed
- 0 Project(s) Deferred/Deauthorized

- 1. Expenditures based on Corps of Engineers financial data.
- 2. Date codes: A = Actual date * = Behind schedule
- 3. Percent codes: ! = 125% of baseline estimate exceeded

COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT

Project Status Summary Report by Project Priority List

****** SCHEDULES *******

Actual ****** ESTIMATES ****** Obligations/

06-May-2019 Page 89

PROJECT	BASIN	PARISH	ACRES	CSA	Const Start	Const End	Approved	Funded	%	Expenditures
Priority List 11		Lea	nd Agency:	NRCS,						
Barataria Basin Landbridge Shoreline Protection, Ph 4	BARA Status:	JEFF Construction	256 Unit #6 was co	09-May-2002 A ompleted on April 2	27-Apr-2005 A 6, 2006.	26-Apr-2006 A	\$17,709,217	\$13,188,787	74.5	\$7,041,808 \$6,586,767
Coastwide Nutria Control Program	COAST Status:		ave been collect			15-Jul-2003 A ere collected. Over th estimate of coastwide		-		\$29,304,926 \$29,228,361
Grand Lake Shoreline Protection	MERM Status:	CAMER Construction	45 completed 7/7/	20-Sep-2011 A	01-Dec-2016 A	07-Jul-2017 A	\$10,055,616	\$7,083,159	70.4	\$6,812,398 \$4,962,018

- 1. Expenditures based on Corps of Engineers financial data.
- 2. Date codes: A = Actual date * = Behind schedule
- 3. Percent codes: ! = 125% of baseline estimate exceeded

COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT

Project Status Summary Report by Project Priority List

PROJECT	BASIN	PARISH	ACRES	******* CSA	** SCHEDULES Const Start	********** Const End	*******] Approved	ESTIMATES *** Funded	***** %	Actual Obligations/ Expenditures
Raccoon Island Shorelin Protection/Marsh Creat			71 struction began struction ended	23-Apr-2002 A on 12/12/2005 on 9/16/2007	13-Dec-2005 A	27-Apr-2013 A	\$23,163,392	\$22,534,640	97.3	\$18,363,297 \$18,263,042
			truction began truction ended							
Tota	al Priority List NRCS	11	15,335				\$118,968,839	\$84,701,263	71.2	\$61,522,429 \$59,040,188
4 Cor 4 Cor	ject(s) It Sharing Agreements Enstruction Started Instruction Completed Ject(s) Deferred/Deauth									
PPL Total 11				23	,574		\$327,579,291	\$283,295,897	86.5	\$252,686,371

- 12 Project(s)
- 12 Cost Sharing Agreements Executed
- 10 Construction Started
- 9 Construction Completed
- 0 Project(s) Deferred/Deauthorized

Notes:

- 1. Expenditures based on Corps of Engineers financial data.
- 2. Date codes: A = Actual date *= Behind schedule
- 3. Percent codes: ! = 125% of baseline estimate exceeded

06-May-2019 Page 90

Actual

\$231,332,866

COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT

Project Status Summary Report by Project Priority List

Actual ****** SCHEDULES ******* ***** ESTIMATES ****** Obligations/ **PROJECT BASIN PARISH** ACRES CSA **Const Start Const End Funded** % **Expenditures** Approved **Priority List 11.1** Lead Agency: NRCS, Holly Beach Sand CA/SB **CALCA** 330 09-May-2002 A 01-Aug-2002 A 31-Mar-2003 A \$14,130,233 \$14,130,233 100.0 \$13,999,802 Management \$13,999,802 The placement of the sand material on to the beach was completed on Saturday, March 1, 2003. Required work that is now in progress Status: consist of demobilization of the pipeline segments, dressing the completed beach work, erection of the Sand Fencing and installation of the vegetation. Total Priority List NRCS 11.1 330 \$14,130,233 \$14,130,233 100.0 \$13,999,802 \$13,999,802 1 Project(s) 1 Cost Sharing Agreements Executed 1 Construction Started 1 Construction Completed 0 Project(s) Deferred/Deauthorized 330 **PPL Total** 11.1 \$14,130,233 \$14,130,233 100.0 \$13,999,802

- 1 Project(s)
- 1 Cost Sharing Agreements Executed
- 1 Construction Started
- 1 Construction Completed
- 0 Project(s) Deferred/Deauthorized

Notes:

- 1. Expenditures based on Corps of Engineers financial data.
- 2. Date codes: A = Actual date * = Behind schedule
- 3. Percent codes: ! = 125% of baseline estimate exceeded

06-May-2019 Page 91

\$13,999,802

COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT

Project Status Summary Report by Project Priority List

06-May-2019 Page 92

Actual

				******* SCHEDULES *******			****** ESTIMATES ******			Obligations/		
PROJECT	BASIN	PARISH	ACRES	CSA	Const Start	Const End	Approved	Funded	%	Expenditures		
Priority List 12		Lea	nd Agency:	COE, COR	PS OF ENGINE	ERS						
Avoca Island Diversion	TERRE	STMRY					\$1,736,137	\$1,736,137	100.0	\$1,736,137		
DEAUTHORIZED	Status:	The TE-49 Avoca Diversion and Land Building Project was deauthorized per CWPPRA Task Force decision on 4 June 2013.										
Lake Borgne and MRGO Shoreline Protection	PONT	STBER					\$1,089,193	\$1,089,193	100.0	\$1,089,193 \$1,089,193		
DEAUTHORIZED	Status:	This project was approved for Phase I design on PPL12 in January 2003. A kickoff meeting and site visit were held in April 2003. The project work plan for Phase I was submitted to the P&E Subcommittee in October 2003. Right of Entry to perform surveys and geotechnical borings was requested in June 2003 and received in August 2003. Surveys and geotechnical borings were collected during fall 2003. A preliminary design report was completed in December 2003. A 30% design review was held in August 2004. A 95% design review was held on March 29, 2005. A request for Phase II construction approval from the Task Force is scheduled for January 2007.										
Mississippi River Sediment Trap	DELTA	PLAQ					\$354,791	\$354,791	100.0	\$354,791 \$354,791		
DEAUTHORIZED	Status:	This complex project was approved for Phase I design activities in August 2002. A kickoff meeting was held in September 2002. The project work plan is under development pending a plan reformulation meeting with the LA Dept. of Natural Resources and Corps of Engineers design teams.										

- 1. Expenditures based on Corps of Engineers financial data.
- 2. Date codes: A = Actual date * = Behind schedule
- 3. Percent codes: ! = 125% of baseline estimate exceeded

COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT

Project Status Summary Report by Project Priority List

Page 93

Actual

Obligations/
Expenditures

06-May-2019

				******* SCHEDULES *******			****** E	Obligations/			
PROJECT	BASIN	PARISH	ACRES	CSA	Const Start	Const End	Approved	Funded	%	Expenditures	
South White Lake Shoreline Protection	MERM	1 VERMI	844	24-Mar-2005 A	01-Nov-2005 A	29-Aug-2006 A	\$14,566,733	\$10,683,541	73.3	\$10,474,289 \$10,474,289	
	Status		CPRA O&M is in the process of setting up the 2014 annual site inspection trip for the ME-22 project; it is tentatively set to occur in the late June or early July 2014 timeframe with report to follow.								
5	Гotal Priority List СОЕ	12	844				\$17,746,854	\$13,863,662	78.1	\$13,654,409 \$13,654,409	

⁴ Project(s)

- 1 Construction Started
- 1 Construction Completed
- 3 Project(s) Deferred/Deauthorized

- 1. Expenditures based on Corps of Engineers financial data.
- 2. Date codes: A = Actual date * = Behind schedule
- 3. Percent codes: ! = 125% of baseline estimate exceeded

¹ Cost Sharing Agreements Executed

PROJECT

Priority List 12

Bayou Dupont Sediment

Delivery System

COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT

CSA

21-Mar-2004 A

Lead Agency: EPA, REGION 6

Project Status Summary Report by Project Priority List

Const Start

04-Feb-2009 A

Actual ****** SCHEDULES ******* ***** ESTIMATES ****** Obligations/ Expenditures **Const End Approved Funded** % 03-Jun-2010 A \$27,702,941 \$27,231,106 98.3 \$42,539,722 \$42,533,717 Additional post-primary construction activities will not be pursued. Sponsors will be proceeding with construction grant close-out

\$27,702,941

1 Project(s)

1 Cost Sharing Agreements Executed

BASIN

BARA

Status:

PARISH

PLAQ

activities.

12

ACRES

326

326

- Construction Started
- Construction Completed

Total Priority List EPA

0 Project(s) Deferred/Deauthorized

Notes:

- 1. Expenditures based on Corps of Engineers financial data.
- 2. Date codes: A = Actual date * = Behind schedule
- 3. Percent codes: ! = 125% of baseline estimate exceeded

06-May-2019 Page 94

\$27,231,106 98.3

\$42,539,722 \$42,533,717

COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT

Project Status Summary Report by Project Priority List

Actual ****** SCHEDULES ******* ***** ESTIMATES ****** Obligations/ **PROJECT BASIN PARISH** ACRES **CSA Const Start Const End Funded** % **Expenditures** Approved **Priority List 12** Lead Agency: NRCS, \$1,068,602 Freshwater Floating COAST **COAST** 0 12-Jun-2003 A 01-Jul-2004 A 01-Jun-2006 A \$1,068,602 \$1,068,602 100.0 Marsh Creation Demo \$1,068,602 The deployed vegetated structures at the Mandalay field site have been in place since Spring 2006, and are functioning as designed. By **COMPLETE** Status: the end of 2008 (the third growing season in the field), vegetation in the floating structures has spread significantly from their mother structures and are beginning to interweave with plants from adjacent structures, and the belowground plant material was generating an increasingly extensive network of the fibrous roots and rhizomes necessary to establish the foundation of a sustainable organic marsh mat. Some of the deployed structures at Mandalay were damaged, but overall the project structures and associated vegetation weathered the storms well with less than 5% of the structures damaged or lost. In this project, the P. hemitomon plants established in the floating structures performed extremely well in the areas not impacted by increases in water salinity from storm induced high water, and when protected from nutria grazing. Total Priority List NRCS 12 0 \$1,068,602 \$1,068,602 100.0 \$1,068,602

- 1 Project(s)
- 1 Cost Sharing Agreements Executed
- 1 Construction Started
- 1 Construction Completed
- 0 Project(s) Deferred/Deauthorized

Notes:

- 1. Expenditures based on Corps of Engineers financial data.
- 2. Date codes: A = Actual date * = Behind schedule
- 3. Percent codes: ! = 125% of baseline estimate exceeded

06-May-2019 Page 95

\$1,068,602

COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT

Project Status Summary Report by Project Priority List

06-May-2019 Page 96

			v	*****	**** SCHEDULES		******* I	ESTIMATES ***	****	Actual Obligations/
PROJECT	BASIN	PARISH	ACRES	CSA	Const Start	Const End	Approved	Funded	%	Expenditures
PPL Total 12					1,170		\$46,518,396	\$42,163,369	90.6	\$57,262,734 \$57,256,728

- 6 Project(s)
- 3 Cost Sharing Agreements Executed
- 3 Construction Started
- 3 Construction Completed
- 3 Project(s) Deferred/Deauthorized

- 1. Expenditures based on Corps of Engineers financial data.
- 2. Date codes: A = Actual date * = Behind schedule
- 3. Percent codes: ! = 125% of baseline estimate exceeded

COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT

Project Status Summary Report by Project Priority List

06-May-2019 Page 97

Actual

				*****	*** SCHEDULES	*****	***** ES	TIMATES ***	****	Obligations/
PROJECT	BASIN	PARISH	ACRES	CSA	Const Start	Const End	Approved	Funded	%	Expenditures
Priority List 13		Lea	d Agency:	COE, CORP	S OF ENGINE	EERS				
Shoreline Protection Foundation Improvements Demo COMPLETE	COAST Status:	COAST DEMO Final 16 Jan 2014.	0 Report was con	24-Mar-2005 A mpleted and present	01-Nov-2005 A tation on project & c	29-Aug-2006 A opies of report were p	\$707,839 rovided at the CWPF	\$707,839 PRA Task Force M	100.0 leeting on	\$707,839 \$707,839
Spanish Pass Diversion DEAUTHORIZED	DELTA Status:	PLAQ The MR-14 S	spanish Pass Di	version project was	deauthorized per CV	WPPRA Task Force de	\$310,152 ecision on 4 June 20	\$310,152 13.	100.0	\$310,152 \$310,152
Total Priority	List COE	13	0				\$1,017,991	\$1,017,991	100.0	\$1,017,991 \$1,017,991

- 2 Project(s)
- 1 Cost Sharing Agreements Executed
- 1 Construction Started
- 1 Construction Completed
- 1 Project(s) Deferred/Deauthorized

- 1. Expenditures based on Corps of Engineers financial data.
- 2. Date codes: A = Actual date *= Behind schedule
- 3. Percent codes: ! = 125% of baseline estimate exceeded

COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT

Project Status Summary Report by Project Priority List

Page 98

Actual

****** FSTIMATES *******
Obligations/

06-May-2019

PROJECT	BASIN	PARISH	ACRES	******* CSA	** SCHEDULES Const Start	********** Const End	****** ES Approved	TIMATES **** Funded	**** %	Obligations/ Expenditures
1 KOJEC1	DASIN	TAKISII	ACRES	CSA	Collst Start	Const End	Approved	Tunucu	/0	Expenditures
Priority List 13		Lea	nd Agency:	EPA, REGIO	ON 6					
Whiskey Island Back Barrier Marsh Creation	TERRE Status:	TERRE After further	272 assessment of p	29-Sep-2004 A project vegetation, sp	11-Feb-2009 A consors intend to pur	18-Jun-2010 A	\$30,414,086 etation planting ever	\$30,207,395 at.	99.3	\$24,917,387 \$24,908,848
Total Prio	rity List EPA	13	272				\$30,414,086	\$30,207,395	99.3	\$24,917,387 \$24,908,848

- 1 Project(s)
- 1 Cost Sharing Agreements Executed
- 1 Construction Started
- 1 Construction Completed
- 0 Project(s) Deferred/Deauthorized

- 1. Expenditures based on Corps of Engineers financial data.
- 2. Date codes: A = Actual date *= Behind schedule
- 3. Percent codes: ! = 125% of baseline estimate exceeded

COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT

Project Status Summary Report by Project Priority List

06-May-2019 Page 99

Actual ****** SCHEDULES ******* ***** ESTIMATES ****** Obligations/ Expenditures **PROJECT BASIN** PARISH ACRES **CSA Const Start Const End Approved Funded** % **Priority List** 13 Lead Agency: FWS, FISH & WILDLIFE SERVICE PONT Goose Point/Point Platte STTAM 436 14-May-2004 A 02-Apr-2008 A 12-Feb-2009 A \$14,558,123 \$14,458,030 99.3 \$14,072,939 Marsh Creation \$14,049,473 This project was completed in 2009 and is in the monitoring and O&M phase. Status: Total Priority List FWS 13 436 \$14.558.123 \$14,458,030 99.3 \$14.072.939 \$14,049,473

¹ Project(s)

¹ Cost Sharing Agreements Executed

¹ Construction Started

¹ Construction Completed

⁰ Project(s) Deferred/Deauthorized

^{1.} Expenditures based on Corps of Engineers financial data.

^{2.} Date codes: A = Actual date * = Behind schedule

^{3.} Percent codes: ! = 125% of baseline estimate exceeded

COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT

Project Status Summary Report by Project Priority List

06-May-2019 Page 100

Actual ****** SCHEDULES ******* ***** ESTIMATES ****** Obligations/ **PROJECT BASIN** PARISH ACRES **CSA Const Start Const End Approved Funded** % **Expenditures Priority List 13** Lead Agency: NRCS, Bayou Sale Shoreline TECHE STMRY 16-Jun-2004 A \$1,855,824 \$1,855,824 100.0 \$1,855,824 Protection \$1,855,824 Project scope change did not get approved by Technical Committee. Project team reviewing option suggested by Parish to allow a test DEAUTHORIZED Status: section of an alternative shoreline protection product, funded by Parish. Project Team currently assessing viability. Total Priority List NRCS 13 \$1,855,824 \$1,855,824 100.0 \$1,855,824 \$1,855,824 1 Project(s) 1 Cost Sharing Agreements Executed 0 Construction Started 0 Construction Completed 1 Project(s) Deferred/Deauthorized **PPL Total** 13 708 \$47,846,025 \$47,539,241 99.4 \$41,864,140 \$41,832,136

- 5 Project(s)
- 4 Cost Sharing Agreements Executed
- 3 Construction Started
- 3 Construction Completed
- 2 Project(s) Deferred/Deauthorized

- 1. Expenditures based on Corps of Engineers financial data.
- 2. Date codes: A = Actual date *= Behind schedule
- 3. Percent codes: ! = 125% of baseline estimate exceeded

COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT

Project Status Summary Report by Project Priority List

Page 101
Actual

06-May-2019

				******	* SCHEDULES *	*****	***** ES	TIMATES ****	****	Obligations/
PROJECT	BASIN	PARISH	ACRES	CSA	Const Start	Const End	Approved	Funded	%	Expenditures
Priority List 14		Lea	d Agency:	NMFS, NATI	ONAL MARIN	E FISHERIES	SERVICE			
Riverine Sand Mining/Scofield Island Restoration DEAUTHORIZED	BARA Status:		siana planning t 9 January 2012	04-Oct-2005 A o construct the project meeting.	ct using state-only fu	nds. Final CWPPRA	\$2,935,025 deauthorization wa	\$2,935,025 s approved by the	100.0 Task	\$2,935,025 \$2,935,025
Total Priority	List NMFS	14					\$2,935,025	\$2,935,025	100.0	\$2,935,025 \$2,935,025

- 1 Project(s)
- 1 Cost Sharing Agreements Executed
- 0 Construction Started
- 0 Construction Completed
- 1 Project(s) Deferred/Deauthorized

- 1. Expenditures based on Corps of Engineers financial data.
- 2. Date codes: A = Actual date * = Behind schedule
- 3. Percent codes: ! = 125% of baseline estimate exceeded

COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT

Project Status Summary Report by Project Priority List

06-May-2019 Page 102

Actual

				******	** SCHEDULES	*****	****** E	STIMATES ****	****	Obligations/
PROJECT	BASIN	PARISH	ACRES	CSA	Const Start	Const End	Approved	Funded	%	Expenditures
Priority List 14		Lea	d Agency:	NRCS,						
East Marsh Island Marsh Creation	TECHE Status:	IBERI Construction	169 of marsh creati	04-Oct-2006 A on has been complet	15-Feb-2010 A ted. Vegetative Plan	22-Jul-2011 A atings began March 20	\$17,765,813	\$17,439,420 completed by July 2	98.2 011.	\$17,709,503 \$17,690,191
South Shore of the Pen Shoreline Protection & Marsh Creation	BARA Status:	JEFF Project was co	106 ompleted on Ju	07-Dec-2005 A ne 6, 2012.	17-Jun-2010 A	06-Jun-2012 A	\$21,639,574	\$19,853,124	91.7	\$17,911,342 \$17,879,655
White Ditch Resurrection and Outfall Management DEAUTHORIZED	BRET Status:	PLAQ Project team	nas agreed to m	11-Aug-2005 A nove to deauthorizati	on due to issues reg	arding location & ope	\$1,020,420 cration of siphon.	\$1,020,420	100.0	\$1,020,420 \$1,020,420
Total Priorit	y List NRCS	14	275				\$40,425,806	\$38,312,963	94.8	\$36,641,265 \$36,590,265

- 3 Project(s)
- 3 Cost Sharing Agreements Executed
- 2 Construction Started
- 2 Construction Completed
- 1 Project(s) Deferred/Deauthorized

- 1. Expenditures based on Corps of Engineers financial data.
- 2. Date codes: A = Actual date * = Behind schedule
- 3. Percent codes: ! = 125% of baseline estimate exceeded

COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT

06-May-2019 Page 103

Project Status Summary Report by Project Priority List

			3	*****	*** SCHEDULES		****** I	ESTIMATES ***	****	Actual Obligations/
PROJECT	BASIN	PARISH	ACRES	CSA	Const Start	Const End	Approved	Funded	%	Expenditures
PPL Total 14					275		\$43,360,831	\$41,247,988	95.1	\$39,576,290 \$39,525,290

- 4 Project(s)
- 4 Cost Sharing Agreements Executed
- 2 Construction Started
- 2 Construction Completed
- 2 Project(s) Deferred/Deauthorized

- 1. Expenditures based on Corps of Engineers financial data.
- 2. Date codes: A = Actual date * = Behind schedule
- 3. Percent codes: ! = 125% of baseline estimate exceeded

COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT

Project Status Summary Report by Project Priority List

06-May-2019 Page 104

Actual

				******	* SCHEDULES :	****	****** ES	TIMATES ****	****	Obligations/
PROJECT	BASIN	PARISH	ACRES	CSA	Const Start	Const End	Approved	Funded	%	Expenditures
Priority List 15		Lea	nd Agency:	EPA, REGIO	N 6					
Bayou Lamoque	BRET	PLAQ	620				\$9,510	\$9,510	100.0	\$9,510
Freshwater Diversion TRANSFER	Status:	CORRECTIO	ON: The project	was TRANSFERRE	D to the state by the	e CWPPRA Task Ford	ee on October 25, 20	07.		\$9,510
Venice Ponds Marsh Creation and Crevasses	DELTA	PLAQ	318	19-Jun-2009 A			\$611,222	\$611,222	100.0	\$611,222
INACTIVE	Status:			ed, but not recommer ests will be made.	nded, at the Decemb	per 2012 Technical Co	mmittee Meeting. S	ponsors will deter	rmine	\$611,222
Total Priority	y List EPA	15	938				\$620,732	\$620,732	100.0	\$620,732 \$620,732

- 2 Project(s)
- 1 Cost Sharing Agreements Executed
- 0 Construction Started
- 0 Construction Completed
- 0 Project(s) Deferred/Deauthorized

- 1. Expenditures based on Corps of Engineers financial data.
- 2. Date codes: A = Actual date * = Behind schedule
- 3. Percent codes: ! = 125% of baseline estimate exceeded

PROJECT

Priority List 15

Lake Hermitage Marsh

Creation

COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT

CSA

28-Mar-2006 A

This project was completed in 2015 and monitoring activities are ongoing.

Lead Agency: FWS, FISH & WILDLIFE SERVICE

Project Status Summary Report by Project Priority List

****** SCHEDULES *******

Const End

19-May-2015 A

\$34.858.396

Const Start

24-Feb-2012 A

******** ESTIMATES *******
Approved Funded % Expenditures

\$34,858,396 \$34,409,336 98.7 \$34,214,724 \$34,185,117

\$34,409,336

98.7

06-May-2019 Page 105

\$34,214,724 \$34,185,117

- 1 Project(s)
- 1 Cost Sharing Agreements Executed

Total Priority List FWS

BASIN

BARA

Status:

PARISH

PLAQ

15

ACRES

447

447

- 1 Construction Started
- 1 Construction Completed
- 0 Project(s) Deferred/Deauthorized

- 1. Expenditures based on Corps of Engineers financial data.
- 2. Date codes: A = Actual date * = Behind schedule
- 3. Percent codes: ! = 125% of baseline estimate exceeded

COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT

Project Status Summary Report by Project Priority List

****** SCHEDULES ******* ***** ESTIMATES ****** Obligations/ **PROJECT BASIN** PARISH ACRES **CSA Const Start Const End Funded** % **Expenditures** Approved **Priority List** 15 Lead Agency: NMFS, NATIONAL MARINE FISHERIES SERVICE South Pecan Island MERM VERMI 21-Sep-2006 A \$779,422 \$779,422 100.0 \$779,422 Freshwater Introduction The acquisition of land rights has been unsuccessful with one of the eight landowners. Therefore, the NMFS and OCPR will be DEAUTHORIZED Status: recommending to the Technical Committee that this project proceed to deauthorization. Total Priority List NMFS 15 \$779,422 \$779,422 100.0 \$779,422 \$779,422 1 Project(s) 1 Cost Sharing Agreements Executed 0 Construction Started 0 Construction Completed 1 Project(s) Deferred/Deauthorized **PPL Total** 15 1.385 \$36,258,549 \$35,809,489 98.8 \$35,614,877 \$35,585,270

- 4 Project(s)
- 3 Cost Sharing Agreements Executed
- 1 Construction Started
- 1 Construction Completed
- 1 Project(s) Deferred/Deauthorized

Notes:

- 1. Expenditures based on Corps of Engineers financial data.
- 2. Date codes: A = Actual date * = Behind schedule
- 3. Percent codes: ! = 125% of baseline estimate exceeded

06-May-2019 Page 106

Actual

\$779,422

COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT

Project Status Summary Report by Project Priority List

06-May-2019 Page 107

Actual ****** SCHEDULES ******* ***** ESTIMATES ****** Obligations/ **PROJECT BASIN** PARISH ACRES **CSA Const Start Const End Funded** % **Expenditures** Approved **Priority List 16** Lead Agency: COE, CORPS OF ENGINEERS Southwest LA Gulf MERM **CAMER** 888 30-Jun-2017 * 10-Jul-2018 * \$10,657 \$10,657 100.0 \$10.657 Shoreline Nourish \$10,657 This project was approved for Phase 1 design in Oct 2006. The COE internal project delivery team (PDT) has been assembled. Upon &Protect TRANSFER Status: attainment of a Cost Share Agreement with CPRA, a Phase 1 work plan will be developed and a kickoff meeting/site visit scheduled. In Mar 2009, a project Fact Sheet and map was approved by the New Orleans District for placement on the LaCoast website. At this time, the project is unable to be further developed by the COE and the CPRA until a Cost Share Agreement is signed. Total Priority List COE 888 \$10,657 100.0 \$10.657 16 \$10,657 \$10,657

- 1 Project(s)
- 0 Cost Sharing Agreements Executed
- 0 Construction Started
- 0 Construction Completed
- 0 Project(s) Deferred/Deauthorized

- 1. Expenditures based on Corps of Engineers financial data.
- 2. Date codes: A = Actual date *= Behind schedule
- 3. Percent codes: ! = 125% of baseline estimate exceeded

COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT

Project Status Summary Report by Project Priority List

06-May-2019 Page 108

Actual

				*****	** SCHEDULES	*****	***** ES	TIMATES ****	****	Obligations/
PROJECT	BASIN	PARISH	ACRES	CSA	Const Start	Const End	Approved	Funded	%	Expenditures
Priority List 16		Lea	d Agency:	EPA, REGIO	N 6					
Enhancement of Barrier Island Vegetation Demo	COAST Status:	COAST A draft final t	0 report was recei	27-Jul-2007 A ved and reviewed, w	14-Jun-2010 A with minimal comme	31-Dec-2010 A ents. Subsequently, a f	\$591,998 inal report was comp	\$591,998 bleted.	100.0	\$591,998 \$591,998
Total Priori	ity List EPA	16	0				\$591,998	\$591,998	100.0	\$591,998 \$591,998

¹ Project(s)

- 2. Date codes: A = Actual date * = Behind schedule
- 3. Percent codes: ! = 125% of baseline estimate exceeded

¹ Cost Sharing Agreements Executed

¹ Construction Started

¹ Construction Completed

⁰ Project(s) Deferred/Deauthorized

^{1.} Expenditures based on Corps of Engineers financial data.

COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT

Project Status Summary Report by Project Priority List

06-May-2019 Page 109

Actual

***** ESTIMATES ****** ****** SCHEDULES ******* Obligations/ **PROJECT BASIN PARISH** ACRES **CSA Const Start Const End Funded** % **Expenditures** Approved **Priority List 16** Lead Agency: NMFS, NATIONAL MARINE FISHERIES SERVICE \$1,731,039 Madison Bay Marsh TERRE TERRE 334 31-May-2007 A 01-Dec-2015 * 01-Jul-2017 * \$1,731,039 100.0 \$1,731,039 Creation and Terracing \$1,731,039 NMFS intends to seek Phase 2 authorization in December 2014. **INACTIVE** Status: West Belle Pass Barrier **TERRE** LAFOU 305 31-May-2007 A 09-Sep-2011 A \$42,250,417 \$42,052,469 99.5 \$26,086,005 04-Jun-2013 A Headland Restoration \$26,032,902 Project Status: Readjusted description and changed construction completion date based on plantings date to fit with O&M plan. 639 \$43,981,456 99.5 \$27.817.044 Total Priority List NMFS 16 \$43,783,508 \$27,763,942

- 2 Project(s)
- 2 Cost Sharing Agreements Executed
- 1 Construction Started
- 1 Construction Completed
- 0 Project(s) Deferred/Deauthorized

- 1. Expenditures based on Corps of Engineers financial data.
- 2. Date codes: A = Actual date * = Behind schedule
- 3. Percent codes: ! = 125% of baseline estimate exceeded

COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT

Project Status Summary Report by Project Priority List

****** SCHEDULES ******* ***** ESTIMATES ****** Obligations/ **PROJECT BASIN** PARISH ACRES **CSA Const Start Const End** Approved **Funded** % **Expenditures** Lead Agency: NRCS, **Priority List 16** PONT ORL Alligator Bend Marsh 181 11-Jun-2008 A \$1,364,230 \$1,364,230 100.0 \$1,364,230 Restoration and Shoreline \$1,364,230 Project has been placed on Inactive list until CWPPRA is reauthorized, receives further funding, or another program is found that can Protection (Inactive) Status: provided construction funding. 181 Total Priority List NRCS 16 \$1,364,230 \$1,364,230 100.0 \$1,364,230 \$1,364,230 1 Project(s) 1 Cost Sharing Agreements Executed 0 Construction Started 0 Construction Completed 0 Project(s) Deferred/Deauthorized **PPL Total** 16 1,708 \$45,948,342 \$45,750,394 99.6 \$29,783,929 \$29,730,827

- 5 Project(s)
- 4 Cost Sharing Agreements Executed
- 2 Construction Started
- 2 Construction Completed
- 0 Project(s) Deferred/Deauthorized

Notes:

- 1. Expenditures based on Corps of Engineers financial data.
- 2. Date codes: A = Actual date * = Behind schedule
- 3. Percent codes: ! = 125% of baseline estimate exceeded

06-May-2019 Page 110

Actual

COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT

Project Status Summary Report by Project Priority List

06-May-2019 Page 111

Actual

				******	* SCHEDULES *	*****	****** ES	TIMATES ****	****	Obligations/
PROJECT	BASIN	PARISH	ACRES	CSA	Const Start	Const End	Approved	Funded	%	Expenditures
Priority List 17		Lea	d Agency:	EPA, REGIO	N 6					
Bohemia Mississippi River Reintroduction DEAUTHORIZED	BRET Status:	PLAQ Project delaye of Task Force		16-Jul-2008 A derations of State Ma	ster Plan consistenc	ry. Project deauthoriza	\$502,592	\$502,592 nitiated pending d	100.0	\$502,592 \$502,592
Total Priority	List EPA	17					\$502,592	\$502,592	100.0	\$502,592 \$502,592

- 1 Project(s)
- 1 Cost Sharing Agreements Executed
- 0 Construction Started
- 0 Construction Completed
- 1 Project(s) Deferred/Deauthorized

- 1. Expenditures based on Corps of Engineers financial data.
- 2. Date codes: A = Actual date * = Behind schedule
- 3. Percent codes: ! = 125% of baseline estimate exceeded

COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT

Project Status Summary Report by Project Priority List

****** SCHEDULES ******* ***** ESTIMATES ****** Obligations/ **PROJECT BASIN** PARISH ACRES **CSA Const Start Const End Funded** % **Expenditures** Approved Lead Agency: FWS, FISH & WILDLIFE SERVICE **Priority List 17** South Lake Lery BRET MULTI 409 19-Feb-2008 A 31-Jul-2015 A 01-Jun-2018 * \$32,663,173 \$32,295,816 98.9 \$31,587,910 Shoreline and Marsh \$25,969,638 All earth work associated with the Lake Rim Embankments (LRE) or Shoreline Restoration has been completed. All LRE have been Restoration Status: planted with bullwhip (intertidal) and bermuda and brown top millet (crown). There are some concerns with the amount of erosion associated with LRE 1 and 6. Currently CPRA/FWS/NRCS are evaluating if/what additional work will be needed on those reaches to address the erosion. All marsh creation has been completed. Additional marsh has been created south of marsh creation units 2,3, and 4. Waiting on final as-builts from NRCS. 17 409 \$32,663,173 \$32,295,816 98.9 \$31.587.910 Total Priority List FWS \$25,969,638

- 1 Project(s)
- 1 Cost Sharing Agreements Executed
- 1 Construction Started
- 0 Construction Completed
- 0 Project(s) Deferred/Deauthorized

Notes:

- 1. Expenditures based on Corps of Engineers financial data.
- 2. Date codes: A = Actual date *= Behind schedule
- 3. Percent codes: ! = 125% of baseline estimate exceeded

06-May-2019 Page 112

Actual

COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT

Project Status Summary Report by Project Priority List

06-May-2019 Page 113

Actual ****** SCHEDULES ******* ***** ESTIMATES ****** Obligations/ **PROJECT BASIN** PARISH ACRES **CSA Const Start Const End Funded** % **Expenditures** Approved **Priority List 17** Lead Agency: NMFS, NATIONAL MARINE FISHERIES SERVICE Bayou Dupont Ridge **BARA JEFF** 186 17-Jul-2008 A 21-Apr-2014 A 30-Jun-2015 A \$38,985,192 \$38,271,383 98.2 \$35,703,764 Creation & Marsh \$35,684,808 Major construction activities are complete. The marsh platform and ridge have been constructed and the containment dikes have been Restoration Status: gapped. Ridge plantings are currently being planned. Bio-Engineered Oyster **MERM MULTI** 0 02-Aug-2011 A 17-Feb-2012 A \$2,244,785 \$2,244,785 100.0 \$2,152,725 Reef DEMO \$2,152,725 Oyster and elevation surveys are complete and a final report are in process. Status: Total Priority List NMFS 17 186 \$41,229,977 \$40,516,168 98.3 \$37,856,490 \$37,837,533

- 2 Project(s)
- 1 Cost Sharing Agreements Executed
- 2 Construction Started
- 2 Construction Completed
- 0 Project(s) Deferred/Deauthorized

- 1. Expenditures based on Corps of Engineers financial data.
- 2. Date codes: A = Actual date *= Behind schedule
- 3. Percent codes: ! = 125% of baseline estimate exceeded

COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT

06-May-2019 Page 114

Actual

Project Status Summary Report by Project Priority List

				******	** SCHEDULES	*****	***** ES	TIMATES ***	****	Obligations/
PROJECT	BASIN	PARISH	ACRES	CSA	Const Start	Const End	Approved	Funded	%	Expenditures
Priority List 17		Lea	d Agency:	NRCS,						
Sediment Containment	COAST	COAST	0	28-Jan-2008 A	08-Jan-2013 A	11-Sep-2013 A	\$970,726	\$970,726	100.0	\$883,702
System for Marsh Creation Demo	Status:	LA-9 Demo I	Project was incl	uded with the PO-7:	5 Pilot Study. Proje	ct was awarded on Jar	nuary 7, 2013.			\$883,702
West Pointe a la Hache Marsh Creation	BARA	PLAQ		24-Jan-2008 A			\$580,827	\$580,827	100.0	\$580,827
DEAUTHORIZED	Status:	47 footprint a	and cover most		d to be built under tl	mental funding and whis project. Therefore rogram.				\$580,827
Total Prior	rity List NRCS	17	0				\$1,551,553	\$1,551,553	100.0	\$1,464,529 \$1,464,529

- 2 Project(s)
- 2 Cost Sharing Agreements Executed
- 1 Construction Started
- 1 Construction Completed
- 1 Project(s) Deferred/Deauthorized

- 1. Expenditures based on Corps of Engineers financial data.
- 2. Date codes: A = Actual date * = Behind schedule
- 3. Percent codes: ! = 125% of baseline estimate exceeded

COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT

Project Status Summary Report by Project Priority List

Actual Obligations/

06-May-2019 Page 115

				*****	*** SCHEDULES *	*****	****** I	ESTIMATES ***:	****	Obligations/
PROJECT	BASIN	PARISH	ACRES	CSA	Const Start	Const End	Approved	Funded	%	Expenditures
PPL Total 17					595		\$75,947,295	\$74,866,129	98.6	\$71,411,520 \$65,774,293

- 6 Project(s)
- 5 Cost Sharing Agreements Executed
- 4 Construction Started
- 3 Construction Completed
- 2 Project(s) Deferred/Deauthorized

- 1. Expenditures based on Corps of Engineers financial data.
- 2. Date codes: A = Actual date * = Behind schedule
- 3. Percent codes: ! = 125% of baseline estimate exceeded

COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT

Project Status Summary Report by Project Priority List

06-May-2019 Page 116

Actual

				*****	*** SCHEDULES	*****	****** ES'	TIMATES ****	****	Obligations/
PROJECT	BASIN	PARISH	ACRES	CSA	Const Start	Const End	Approved	Funded	%	Expenditures
Priority List	18	Lea	nd Agency:	EPA, REGIO	ON 6					
Bertrandville Siphon DEAUTHORIZED	BRET Status:	PLAQ Project delays	s due to conside	15-Jun-2011 A erations of State Ma	aster Plan consistency	and pursuit of landow	\$521,984 oner support.	\$521,984	100.0	\$521,984 \$521,984
То	tal Priority List EPA	18					\$521,984	\$521,984	100.0	\$521,984 \$521,984

- 1 Project(s)
- 1 Cost Sharing Agreements Executed
- 0 Construction Started
- 0 Construction Completed
- 1 Project(s) Deferred/Deauthorized

- 1. Expenditures based on Corps of Engineers financial data.
- 2. Date codes: A = Actual date * = Behind schedule
- 3. Percent codes: ! = 125% of baseline estimate exceeded

COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT

Project Status Summary Report by Project Priority List

Actual ****** SCHEDULES ******* ***** ESTIMATES ****** Obligations/ **CSA Const Start** Const End **Funded** % **Expenditures** Approved

Priority List 18 Lead Agency: NMFS, NATIONAL MARINE FISHERIES SERVICE

Grand Liard Marsh and Ridge Restoration

PROJECT

BARA

BASIN

PLAO

PARISH

370

ACRES

01-Jul-2014 A

01-Oct-2015 A

\$42,579,616

\$42,227,680

99.2 \$39,716,861

\$33,635,315

06-May-2019 Page 117

Status:

The bid opening was on February 6, 2014 and the construction contract was awarded to Weeks Marine, Inc. on March 18, 2014. The notice to proceed was issued on March 24, 2014 and the pre-construction meeting was held on April 3, 2014. Access channel dredging began on July 22, 2014 and ended on August 26, 2015. Earthen ridge and containment dike construction began on August 27, 2014 and was complete on March 24, 2015. Marsh creation began on March 18, 2015 and was complete on July 31, 2015. Weeks Marine, Inc. completed construction on September 16, 2015. Final quantities constructed were: 450 acres of marsh platform; 28,855 linear feet of containment dikes; 45,152 square feet of steel sheet piling; and 15,484 linear feet of earthen ridge. Portions of the marsh are expected to be planted with vegetation in the fall of 2018. The constructed ridge will be planted with woody vegetation in the future.

Total Priority List NMFS 18

370

\$42,579,616

\$42,227,680

99.2 \$39,716,861

- 1 Project(s)
- 0 Cost Sharing Agreements Executed
- Construction Started
- Construction Completed
- 0 Project(s) Deferred/Deauthorized

Notes:

- 1. Expenditures based on Corps of Engineers financial data.
- 2. Date codes: A = Actual date * = Behind schedule
- 3. Percent codes: ! = 125% of baseline estimate exceeded

\$33,635,315

COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT

06-May-2019 Page 118

Actual

Project Status Summary Report by Project Priority List

				******* SCHEDULES *******			****** ESTIMATES ******			Obligations/
PROJECT	BASIN	PARISH	ACRES	CSA	Const Start	Const End	Approved	Funded	%	Expenditures
Priority List 18		Lea	d Agency:	NRCS,						
Cameron-Creole Freshwater Introduction	CA/SB Status:	information re		tructural components		01-Jul-2016* ject only. Federal Spo Phase II approval Jan		•	79.1	\$19,894,212 \$1,944,111
Central Terrebonne Freshwater Enhancement TRANSFER	TERRE Status:	TERRE Project featur	233 es are being in	04-May-2009 A	01-Sep-2017 * Restore Act Project: 1	01-Jul-2018* Bayou Dularge Ridge	\$2,326,289 e, Marsh, and Hydrol	\$2,326,289 ogic Restoration.	100.0	\$1,343,138 \$1,343,138

- 1. Expenditures based on Corps of Engineers financial data.
- 2. Date codes: A = Actual date * = Behind schedule
- 3. Percent codes: ! = 125% of baseline estimate exceeded

COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT

06-May-2019 Page 119

Actual

Project Status Summary Report by Project Priority List

	DACINI	DA DIGII	A CDEC		******** SCHEDULES ********* CSA			******* ESTIMATES ******					
PROJECT	BASIN	PARISH	ACRES	CSA	Const Start	Const End	Approved	Funded	%	Expenditures			
Non-Rock Alternatives to Shoreline Protection	COAST	COAST	0	04-May-2009 A	05-Mar-2015 A	24-Apr-2017*	\$6,472,800	\$6,472,800	100.0	\$5,673,643 \$5,671,044			
Demo	Status:	Projected Timelines											
		Project was a	dvertised on N	Nov. 15, 2011									
		Site VisitsNo	v. 16 & 17, 20	011									
		Proposals Du	e on RFPMar.	. 15, 2012)									
		< Phase I > Review of Pro	oposalsMay 1	4, 2012)									
		Interview Pro	ocessJune 28, 2	2012)									
		< Phase 2 > Notice of Selection (for Phase 2 design) (July 13, 2012)											
	Draft Design Schedule from NRCS(Aug. 3, 2012)												
		Phase 2 Contract Award (Aug. 13, 2012)											
		Final Design Schedule from NRCS(Aug. 17, 2012)											
		Begin Surveys and Prepare P&S for advertisement (Sep. 19, 2012)											
		Final Product	Selection and	d Develop Phase III E	Budget(Nov. 26, 2012	2)							
		Submit Budget Increase Request to Technical Committee (TC)(Nov. 27, 2012)											
		Request Task Force Approval and BudgetJanuary 17, 2013											
		< Phase 3 > Notice of Selection (for Phase III)(Jan. 25, 2013)											

- 1. Expenditures based on Corps of Engineers financial data.
- 2. Date codes: A = Actual date * = Behind schedule
- 3. Percent codes: ! = 125% of baseline estimate exceeded

COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT

Project Status Summary Report by Project Priority List

06-May-2019 Page 120 **Actual**

				*****	**** SCHEDULES	****** ES	****	Obligations/		
PROJECT	BASIN	PARISH	ACRES	CSA	Const Start	Const End	Approved	Funded	%	Expenditures
		Advertise N	RCS Dredging Co	ontract(Mar. 18, 2	2013)					
		Finalize NR	CS Plans & Spec	ifications(May 25	5, 2013)					
		Phase 3 Con	tract Award (Ma	y 27, 2013)						
		NTP on NRO	CS Dredging Con	ntract(May 31, 20	13)					
		Construction	n of Shoreline Pro	otection Systems(Jan. 22, 2014)					
		Construction	Report(Feb. 21,	2014)						
		Monitoring l	Period(Jan. 23, 20	017)						
		Completion	Report and Proje	ct Closeout(Apr.	24, 2017)					
Tota	al Priority List NRCS	18	451				\$35,575,825	\$29,970,766	84.2	\$26,910,993 \$8,958,292
3 Proj	ject(s)									
3 Cos	t Sharing Agreements E	xecuted								
2 Con	struction Started									

Notes:

- 1. Expenditures based on Corps of Engineers financial data.
- 2. Date codes: A = Actual date * = Behind schedule

0 Construction Completed

0 Project(s) Deferred/Deauthorized

3. Percent codes: ! = 125% of baseline estimate exceeded

COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT

Project Status Summary Report by Project Priority List

Actual ****** SCHEDULES ******* ****** ESTIMATES ****** Obligations/ **PROJECT** Expenditures PARISH ACRES BASIN **CSA Const Start Const End** Approved **Funded** % **PPL Total** 18 821 \$78,677,425 \$72,720,430 92.4 \$67,149,838 \$43,115,591

- 5 Project(s)
- 4 Cost Sharing Agreements Executed
- 3 Construction Started
- 1 Construction Completed
- 1 Project(s) Deferred/Deauthorized

Notes:

- 1. Expenditures based on Corps of Engineers financial data.
- 2. Date codes: A = Actual date * = Behind schedule
- 3. Percent codes: ! = 125% of baseline estimate exceeded

06-May-2019 Page 121

COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT

Project Status Summary Report by Project Priority List

06-May-2019 Page 122

PROJECT	BASIN	PARISH	ACRES	·	** SCHEDULES Const Start	*********** Const End		STIMATES **** Funded	**** %	Actual Obligations/ Expenditures
Priority List 19	9	Lea	nd Agency:	FWS, FISH &	& WILDLIFE S	SERVICE				
Lost Lake Marsh Creation and Hydrologic Restoration	on TERRE Status:		452 was completed	22-Apr-2010 A I on November 30, 20	25-Jan-2017 A	30-Nov-2018 A ion contract has been o	\$35,125,857 closed and the project	\$31,531,382 et will be entering th	89.8 ne O&M	\$3,439,604 \$3,376,406
Tota	d Priority List FWS	19	452				\$35,125,857	\$31,531,382	89.8	\$3,439,604 \$3,376,406

- 1 Project(s)
- 1 Cost Sharing Agreements Executed
- 1 Construction Started
- 1 Construction Completed
- 0 Project(s) Deferred/Deauthorized

- 1. Expenditures based on Corps of Engineers financial data.
- 2. Date codes: A = Actual date * = Behind schedule
- 3. Percent codes: ! = 125% of baseline estimate exceeded

COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT

06-May-2019 Page 123

Actual

Project Status Summary Report by Project Priority List

				******	******* SCHEDULES *******			****** ESTIMATES ******		
PROJECT	BASIN	PARISH	ACRES	CSA	Const Start	Const End	Approved	Funded	%	Expenditures
Priority List 19		Lea	d Agency:	NMFS, NATI	ONAL MARIN	VE FISHERIES	SERVICE			
Chenier Ronquille Barrier Island Restoration DEAUTHORIZED	BARA Status:	PLAQ Project was de Horizon Oil S		18-Aug-2010 A a CWPPRA project a	s it was successfully	included as a Phase	\$1,042,540 III Early Restoration	\$1,042,540 in Project for the Do	100.0 eepwater	\$1,042,540 \$1,042,540
Total Priority I	List NMFS	19					\$1,042,540	\$1,042,540	100.0	\$1,042,540 \$1,042,540

- 1 Project(s)
- 1 Cost Sharing Agreements Executed
- 0 Construction Started
- 0 Construction Completed
- 1 Project(s) Deferred/Deauthorized

- 1. Expenditures based on Corps of Engineers financial data.
- 2. Date codes: A = Actual date * = Behind schedule
- 3. Percent codes: ! = 125% of baseline estimate exceeded

COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT

06-May-2019 Page 124

Actual

Project Status Summary Report by Project Priority List

					*****	** SCHEDULES	******		ESTIMATES ******		Obligations/		
PROJECT	I	BASIN	PARISH	ACRES	CSA	Const Start	Const End	Approved	Funded	%	Expenditures		
Priority List	19		Lea	d Agency:	NRCS,								
Freshwater Bayou I	Marsh	MERM	VERMI	279	01-Apr-2010 A	01-Jul-2018*	01-Aug-2019	\$2,425,997	\$2,425,997	100.0	\$2,203,992		
Creation		Status:	Milestones sh	Milestones shown above are not correct. Federal Sponsor does not have access to change the information.									
			Scheduled Da 30% Review 95% Review Contracting Construction	tes: May 201 August 2 April 2017 Start Septemb	2016 7								
LaBranche East Ma	arsh	PONT	STCHA	715	01-Apr-2010 A	01-Sep-2018*	01-Sep-2019	\$2,571,273	\$2,571,273	100.0	\$2,334,118		
Creation Creation		Status:		STCHA 715 01-Apr-2010 A 01-Sep-2018* 01-Sep-2019 \$2,571,273 \$2,571,273 100.0 evised Scheduled Dates: 30% Review Nov 2017; 95% Review April 2018; Contracting April 2019; Construction Start September 2019									
	Total Priority List	t NRCS	19	994				\$4,997,270	\$4,997,270	100.0	\$4,538,111 \$3,997,306		

- 2 Project(s)
- 2 Cost Sharing Agreements Executed
- 0 Construction Started
- 0 Construction Completed
- 0 Project(s) Deferred/Deauthorized

- 1. Expenditures based on Corps of Engineers financial data.
- 2. Date codes: A = Actual date * = Behind schedule
- 3. Percent codes: ! = 125% of baseline estimate exceeded

COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT

Project Status Summary Report by Project Priority List

Actual ****** SCHEDULES ******* ****** ESTIMATES ****** Obligations/ Expenditures **PROJECT** PARISH ACRES BASIN **CSA Const Start Const End** Approved **Funded** % **PPL Total** 19 1,446 \$9,020,255 \$41,165,667 \$37,571,192 91.3 \$8,416,252

- 4 Project(s)
- 4 Cost Sharing Agreements Executed
- 1 Construction Started
- 1 Construction Completed
- 1 Project(s) Deferred/Deauthorized

Notes:

- 1. Expenditures based on Corps of Engineers financial data.
- 2. Date codes: A = Actual date * = Behind schedule
- 3. Percent codes: ! = 125% of baseline estimate exceeded

06-May-2019 Page 125

COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT

Project Status Summary Report by Project Priority List

***** ESTIMATES ****** ****** SCHEDULES ******* Obligations/ **PROJECT BASIN** PARISH ACRES **CSA Const Start Const End Funded** % **Expenditures** Approved Lead Agency: FWS, FISH & WILDLIFE SERVICE **Priority List 20** Bayou Bonfouca Marsh PONT **STTAM** 478 14-Mar-2011 A 05-Sep-2016 A 20-Jan-2018 * \$28,253,969 \$27,648,895 97.9 \$4,351,573 Creation \$4,121,870 Marsh Creation (MC) 1 and 3 are completed. MC 2 is nearing completion. Starting to pump into MC 4. There has been a number of Status: acres created in the overflow area just outside of MC 1. Cameron-Creole CA/SB **CAMER** 476 24-Oct-2011 A 01-Sep-2017 * 01-Dec-2018 * \$28,707,688 \$28,122,302 98.0 \$1,603,344 Watershed Grand Bayou \$1,504,271 Notice to Proceed to Construction was issued on September 13, 2017. Marsh Creation Status: Terrebonne Bay Marsh **TERRE TERRE** \$2,901,750 \$2,901,750 100.0 \$790,023 Creation-Nourishment \$801,388 This project has been put on hold and no work is currently being done on the project. DEAUTHORIZED Status: Total Priority List FWS 20 954 \$59,863,407 \$58,672,947 98.0 \$6,744,940 \$6,427,530

- 3 Project(s)
- 2 Cost Sharing Agreements Executed
- 1 Construction Started
- 0 Construction Completed
- 1 Project(s) Deferred/Deauthorized

Notes:

- 1. Expenditures based on Corps of Engineers financial data.
- 2. Date codes: A = Actual date * = Behind schedule
- 3. Percent codes: ! = 125% of baseline estimate exceeded

06-May-2019 Page 126

Actual

COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT

Project Status Summary Report by Project Priority List

06-May-2019 Page 127

Actual

		D A CIDA			****** SCHEDULES *******			****** ESTIMATES *****			Obligations/	
PROJECT		BASIN	PARISH	ACRES	CSA	Const Start	Const End	Approved	Funded	%	Expenditures	
Priority List	20		Lea	d Agency:	NRCS,							
Coastwide Vegetat	tive	COAST	COAST	779	20-Sep-2011 A	27-Jul-2012 A	01-Jun-2013*	\$12,689,725	\$12,217,614	96.3	\$9,832,155 \$4,540,900	
Planting		Status:	South Bayou Decade (Terrebonne Par), partially completed; Gentilly Unit (Orleans Par), completed; West Little Lake # 2 (Lafourche Par), completed; Sabine Unit One, under construction; The Jaws Part 2, under construction; Willow Lake 2, awarded; Decade Vicinity, out for bid; Belle Ils Lake, will be out for bid in October 2017.									
Kelso Bayou Mars Creation TRANSF		CA/SB Status:	CAMER Milestones sh	274 nown above are	20-Sep-2011 A	01-Sep-2014*	01-Sep-2018 *	\$2,360,609 the information.	\$2,360,609	100.0	\$1,263,548 \$1,263,548	
			Scheduled Da 30% Review 95% Review Contracting		. 6 2016 7							
	Total Priority L	ist NRCS	20	1,053				\$15,050,334	\$14,578,223	96.9	\$11,095,704 \$5,804,449	

- 2 Project(s)
- 2 Cost Sharing Agreements Executed
- 1 Construction Started
- 0 Construction Completed
- 0 Project(s) Deferred/Deauthorized

- 1. Expenditures based on Corps of Engineers financial data.
- 2. Date codes: A = Actual date * = Behind schedule
- 3. Percent codes: ! = 125% of baseline estimate exceeded

COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT

Project Status Summary Report by Project Priority List

06-May-2019 Page 128

Actual

				*****	*** SCHEDULES *	****** F	Obligations/			
PROJECT	BASIN	PARISH	ACRES	CSA	Const Start	Const End	Approved	Funded	%	Expenditures
PPL Total 20				2	2,007		\$74,913,741	\$73,251,170	97.8	\$17,840,644 \$12,231,978

- 5 Project(s)
- 4 Cost Sharing Agreements Executed
- 2 Construction Started
- 0 Construction Completed
- 1 Project(s) Deferred/Deauthorized

- 1. Expenditures based on Corps of Engineers financial data.
- 2. Date codes: A = Actual date * = Behind schedule
- 3. Percent codes: ! = 125% of baseline estimate exceeded

COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT

Project Status Summary Report by Project Priority List

06-May-2019 Page 129

Actual

				******* SCHEDULES ******			****** ES	Obligations/		
PROJECT	BASIN	PARISH	ACRES	CSA	Const Start	Const End	Approved	Funded	%	Expenditures
Priority List 21		Lea	d Agency:	FWS, FISH &	& WILDLIFE S	SERVICE				
Turtle Bay Marsh Creation	BARA Status:	JEFF A constructio	432 n contract has	10-May-2012 A been awarded to Coa	01-Apr-2019 A astal Dredging, Inc.	01-Mar-2020 A Notice to Proceed	\$33,664,671 was issued on April	\$32,607,095 1, 2019.	96.9	\$1,721,436 \$1,650,146
Total Priority	List FWS	21	432				\$33,664,671	\$32,607,095	96.9	\$1,721,436 \$1,650,146

¹ Project(s)

- 2. Date codes: A = Actual date * = Behind schedule
- 3. Percent codes: ! = 125% of baseline estimate exceeded

¹ Cost Sharing Agreements Executed

¹ Construction Started

⁰ Construction Completed

⁰ Project(s) Deferred/Deauthorized

^{1.} Expenditures based on Corps of Engineers financial data.

COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT

Project Status Summary Report by Project Priority List

Actual ****** FCTIMATEC ****** Obligations/

06-May-2019 Page 130

				****** SCHEDULES ******			***** ESTIMATES ******			Obligations/	
PROJECT	BASIN	PARISH	ACRES	CSA	Const Start	Const End	Approved	Funded	%	Expenditures	
Priority List	21	Lea	nd Agency:	NMFS, NAT	IONAL MARI	NE FISHERIE	S SERVICE				
Coles Bayou Marsh Restoration	TECH! Status:		340 course for a ph	ase 2 (construction)	01-Apr-2018* request in Decembe	31-Mar-2019* r 2015.	\$25,635,641	\$24,169,491	94.3	\$21,127,196 \$2,608,023	
Oyster Bayou Marsh Restoration	CA/SE Status:		433 ds to seek Phase	05-Feb-2013 A	01-Oct-2016 A December 2014.	15-Oct-2016*	\$31,236,742	\$30,732,407	98.4	\$26,452,331 \$22,171,801	
1	Total Priority List NMI	S 21	773				\$56,872,383	\$54,901,898	96.5	\$47,579,527 \$24,779,824	

- 2 Project(s)
- 1 Cost Sharing Agreements Executed
- 1 Construction Started
- 0 Construction Completed
- 0 Project(s) Deferred/Deauthorized

- 1. Expenditures based on Corps of Engineers financial data.
- 2. Date codes: A = Actual date *= Behind schedule
- 3. Percent codes: ! = 125% of baseline estimate exceeded

COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT

Project Status Summary Report by Project Priority List

***** ESTIMATES ****** ****** SCHEDULES ******* Obligations/ **PROJECT BASIN** PARISH ACRES **CSA Const Start Const End** Approved **Funded** % **Expenditures Priority List 21** Lead Agency: NRCS, LaBranche Central Marsh PONT STCHA 731 01-Jun-2012 A 01-Sep-2018 * 01-Sep-2020 \$3,885,298 \$3,885,298 100.0 \$3,675,057 Creation \$1,774,823 Revised Scheduled Dates: 30% Review Jan 2018; 95% Review July 2018; Contracting April 2019; Construction Start September 2019 Status: Total Priority List NRCS 21 731 \$3.885.298 \$3.885.298 100.0 \$3,675,057 1 Project(s) 1 Cost Sharing Agreements Executed 0 Construction Started 0 Construction Completed 0 Project(s) Deferred/Deauthorized **PPL Total** 21 1,936 \$94,422,352 \$91,394,291 96.8 \$52,976,020

- 4 Project(s)
- 3 Cost Sharing Agreements Executed
- 2 Construction Started
- 0 Construction Completed
- 0 Project(s) Deferred/Deauthorized

Notes:

- 1. Expenditures based on Corps of Engineers financial data.
- 2. Date codes: A = Actual date * = Behind schedule
- 3. Percent codes: ! = 125% of baseline estimate exceeded

06-May-2019 Page 131

Actual

\$1,774,823

\$28,204,793

COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT

Project Status Summary Report by Project Priority List

06-May-2019 Page 132

Actual ****** SCHEDULES ******* ***** ESTIMATES ****** Obligations/ Expenditures **PROJECT BASIN** PARISH ACRES **CSA Const Start Const End Approved Funded** % **Priority List 22** Lead Agency: EPA, REGION 6 Bayou Dupont Sediment **BARA PLAQ** 118 23-Aug-2013 A 07-Dec-2015 A 29-Jun-2017 A \$18,119,679 \$17,715,370 97.8 \$15,735,052 Delivery-Marsh Creation 3 \$12,597,276 Phase 2 was approved at the May 14, 2015 Task Force meeting based on a reduced scope to fit available CWPPRA funding. Status: Phase 2 grant was awarded on December 7, 2015. Total Priority List EPA 22 118 \$18,119,679 \$17,715,370 97.8 \$15,735,052 \$12,597,276

- 1 Project(s)
- 1 Cost Sharing Agreements Executed
- 1 Construction Started
- 1 Construction Completed
- 0 Project(s) Deferred/Deauthorized

- 1. Expenditures based on Corps of Engineers financial data.
- 2. Date codes: A = Actual date * = Behind schedule
- 3. Percent codes: ! = 125% of baseline estimate exceeded

COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT

Project Status Summary Report by Project Priority List

06-May-2019 Page 133

Actual ****** SCHEDULES ******* ***** ESTIMATES ****** Obligations/ **PROJECT BASIN** PARISH ACRES **CSA Const Start Const End Approved Funded** % **Expenditures Priority List 22** Lead Agency: FWS, FISH & WILDLIFE SERVICE Terracing & Marsh **BARA PLAQ** 314 31-Oct-2013 A \$2,308,599 \$2,308,599 100.0 \$1,509,927 Creation South of Big Mar \$1,378,840 Phase II Funding will be requested at the December 2017 Technical Committee Meeting. Status: Total Priority List FWS 22 314 \$2,308,599 \$2,308,599 100.0 \$1.509.927 \$1,378,840

- 0 Construction Completed
- 0 Project(s) Deferred/Deauthorized

- 1. Expenditures based on Corps of Engineers financial data.
- 2. Date codes: A = Actual date * = Behind schedule
- 3. Percent codes: ! = 125% of baseline estimate exceeded

¹ Project(s)

¹ Cost Sharing Agreements Executed

⁰ Construction Started

COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT

Project Status Summary Report by Project Priority List

06-May-2019 Page 134

Actual

				******	*** SCHEDULES	*****	***** ES	TIMATES ****		Obligations/
PROJECT	BASIN	PARISH	ACRES	CSA	Const Start	Const End	Approved	Funded	%	Expenditures
Priority List 22		Lea	d Agency:	NMFS, NA	ΠΟΝAL MAR	INE FISHERIE	S SERVICE			
Cameron Meadows Marsh Creation	CA/SB Status:	CAMER	326		21-May-2019	24-Aug-2020	\$38,499,572	\$37,503,664	97.4	\$32,395,324 \$3,148,781
Total Priori	ty List NMFS	22	326				\$38,499,572	\$37,503,664	97.4	\$32,395,324 \$3,148,781

¹ Project(s)

- 0 Construction Completed
- 0 Project(s) Deferred/Deauthorized

- 1. Expenditures based on Corps of Engineers financial data.
- 2. Date codes: A = Actual date * = Behind schedule
- 3. Percent codes: ! = 125% of baseline estimate exceeded

⁰ Cost Sharing Agreements Executed

⁰ Construction Started

COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT

Project Status Summary Report by Project Priority List

				1 Toject St	atus Summary	Keport by 110	Ject I Hoffity LAS	5i			Actual
PROJE	CT	BASIN	PARISH	ACRES	**************************************	** SCHEDULES Const Start	**************************************	*******	STIMATES *** Funded	***** %	Obligations/ Expenditures
TROJE	<u> </u>	DAGIN	TAMSII	ACKES	CDA	Const Start	Const End	Approved	runded	70	Expenditures
Priority I	ist 22		Lea	nd Agency:	NRCS,						
North Catfish I	Lake Marsh	TERRE	LAFOU	401	11-Oct-2013 A		01-Sep-2021	\$3,216,194	\$3,216,194	100.0	\$2,625,141 \$778,242
Creation		Status:			e of Services for Engi erch 2018 to conduct		o complete the data c ces.	ollection and design	of the project. Plan	ı to have	\$770,242
	Total Priority	y List NRCS	22	401				\$3,216,194	\$3,216,194	100.0	\$2,625,141 \$778,242
	1 Project(s)										
	1 Cost Sharing	Agreements E	Executed								
	0 Construction	Started									
	0 Construction	Completed									
	0 Project(s) De	eferred/Deauth	orized								
PPL Total	22				1,1	159		\$62,144,044	\$60,743,827	97.7	\$52,265,445 \$17,903,139
4	Project(s)										Ψ11,703,137

- 4 Project(s)
- 3 Cost Sharing Agreements Executed
- 1 Construction Started
- 1 Construction Completed
- 0 Project(s) Deferred/Deauthorized

Notes:

- 1. Expenditures based on Corps of Engineers financial data.
- 2. Date codes: A = Actual date * = Behind schedule
- 3. Percent codes: ! = 125% of baseline estimate exceeded

06-May-2019 Page 135

COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT

Project Status Summary Report by Project Priority List

06-May-2019 Page 136 **Actual**

				*****	*** SCHEDULES *	*****	***** ES	TIMATES ****	****	Obligations/
PROJECT	BASIN	PARISH	ACRES	CSA	Const Start	Const End	Approved	Funded	%	Expenditures
Priority List	23	Lea	d Agency:	EPA, REGIO	ON 6					
Caminada Headlands Back Barrier Marsh Creation	BARA Status:	LAFOU	165				\$33,523,561	\$32,081,864	95.7	\$26,876,855 \$1,576,768
Т	otal Priority List EPA	23	165				\$33,523,561	\$32,081,864	95.7	\$26,876,855 \$1,576,768

¹ Project(s)

- 0 Construction Completed
- 0 Project(s) Deferred/Deauthorized

- 1. Expenditures based on Corps of Engineers financial data.
- 2. Date codes: A = Actual date * = Behind schedule
- 3. Percent codes: ! = 125% of baseline estimate exceeded

⁰ Cost Sharing Agreements Executed

⁰ Construction Started

COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT

Project Status Summary Report by Project Priority List

06-May-2019 Page 137

Actual ****** SCHEDULES ******* ***** ESTIMATES ****** Obligations/ **PROJECT BASIN** PARISH ACRES **CSA Const Start Const End Approved Funded** % **Expenditures Priority List 23** Lead Agency: FWS, FISH & WILDLIFE SERVICE Bayou Grande Cheniere **BARA PLAQ** 237 23-Jan-2015 A \$2,742,302 \$2,742,302 100.0 \$1,068,123 Marsh & Ridge \$943,131 Phase II approval will be requested at the December 2017 Technical Committee Meeting. Restoration Status: Total Priority List FWS 23 237 \$2,742,302 \$2,742,302 100.0 \$1.068.123 \$943,131

- 1 Project(s)
- 1 Cost Sharing Agreements Executed
- 0 Construction Started
- 0 Construction Completed
- 0 Project(s) Deferred/Deauthorized

- 1. Expenditures based on Corps of Engineers financial data.
- 2. Date codes: A = Actual date * = Behind schedule
- 3. Percent codes: ! = 125% of baseline estimate exceeded

COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT

Project Status Summary Report by Project Priority List

06-May-2019 Page 138

			-10 jev	·	** SCHEDULES :	****		STIMATES ****	****	Actual Obligations/
PROJECT	BASIN	PARISH	ACRES	CSA	Const Start	Const End	Approved	Funded	%	Expenditures
Priority List 23		Lea	nd Agency:	NMFS, NATI	IONAL MARI	NE FISHERIES	SERVICE			
Island Road Marsh Creation & Nourishment	TERRE Status:	TERRE	312	01-Jul-2014*			\$3,721,447	\$3,721,447	100.0	\$3,485,636 \$1,804,374
Total Pric	ority List NMFS	23	312				\$3,721,447	\$3,721,447	100.0	\$3,485,636 \$1,804,374

- 1 Project(s)
- 0 Cost Sharing Agreements Executed
- 0 Construction Started
- 0 Construction Completed
- 0 Project(s) Deferred/Deauthorized

- 1. Expenditures based on Corps of Engineers financial data.
- 2. Date codes: A = Actual date * = Behind schedule
- 3. Percent codes: ! = 125% of baseline estimate exceeded

COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT

Project Status Summary Report by Project Priority List

06-May-2019 Page 139

Actual

				*****	*** SCHEDULES	*****	****** F	ESTIMATES ***	****	Obligations/
PROJECT	BASIN	PARISH	ACRES	CSA	Const Start	Const End	Approved	Funded	%	Expenditures
Priority List	23	Lea	nd Agency:	NRCS,						
South Grand Chenier Marsh Creation – Bak Tract	MERM Status:	CAMER Project desig	393 n is on hold due	30-Jun-2015 * to difficulty in obt	30-Nov-2017 * aining landrights.	30-Nov-2018*	\$2,653,242	\$2,653,242	100.0	\$1,826,594 \$571,527
	otal Priority List NRCS	23	393				\$2,653,242	\$2,653,242	100.0	\$1,826,594 \$571,527
0 Cc 0 Cc	ost Sharing Agreements on construction Started construction Completed roject(s) Deferred/Deauth									
PPL Total 23				1,	107		\$42,640,552	\$41,198,855	96.6	\$33,257,207 \$4,895,800

Notes:

4 Project(s)

0 Construction Started0 Construction Completed

- 1. Expenditures based on Corps of Engineers financial data.
- 2. Date codes: A = Actual date * = Behind schedule

1 Cost Sharing Agreements Executed

0 Project(s) Deferred/Deauthorized

3. Percent codes: ! = 125% of baseline estimate exceeded

COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT

Project Status Summary Report by Project Priority List

06-May-2019 Page 140

Actual

****** SCHEDULES ******* ***** ESTIMATES ****** Obligations/ **PROJECT BASIN** PARISH ACRES **CSA Const Start Const End Approved Funded** % **Expenditures Priority List 24** Lead Agency: EPA, REGION 6 PONT Shell Beach South Marsh STBER 344 22-Jul-2015 A 30-Sep-2019 \$3,176,569 \$3,176,569 100.0 \$1,052,000 Creation \$334,231 TF Approved Phase 1 on 1/22/15. Status: Grant awarded to the CPRA for Phase 1 on 7/22/15. MOA between EPA/USACE signed by Colonel Hansen on 9/25/15. Phase 1 Kickoff meeting held at USACE offices on 10/20/15. Total Priority List EPA 24 344 \$3,176,569 \$3,176,569 100.0 \$1,052,000 \$334,231

- 1 Project(s)
- 1 Cost Sharing Agreements Executed
- 0 Construction Started
- 0 Construction Completed
- 0 Project(s) Deferred/Deauthorized

- 1. Expenditures based on Corps of Engineers financial data.
- 2. Date codes: A = Actual date *= Behind schedule
- 3. Percent codes: ! = 125% of baseline estimate exceeded

COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT

Project Status Summary Report by Project Priority List

06-May-2019 Page 141

Actual

PROJECT	BASIN	PARISH	ACRES	******** CSA	*** SCHEDULES * Const Start	********** Const End	****** ES Approved	TIMATES **** Funded	**** %	Obligations/ Expenditures
Priority List 24		Lea	d Agency:	FWS, FISH	& WILDLIFE S	ERVICE				
New Orleans Landbridge Shoreline & Marsh Creation	PONT Status:	ORL	167				\$1,942,143	\$1,942,143	100.0	\$743,651 \$602,797
Total Priority	List FWS	24	167				\$1,942,143	\$1,942,143	100.0	\$743,651 \$602,797

- 1 Project(s)
- 0 Cost Sharing Agreements Executed
- 0 Construction Started
- 0 Construction Completed
- 0 Project(s) Deferred/Deauthorized

- 1. Expenditures based on Corps of Engineers financial data.
- 2. Date codes: A = Actual date * = Behind schedule
- 3. Percent codes: ! = 125% of baseline estimate exceeded

PROJECT

Priority List 24

No Name Bayou Marsh

Creation & Nourishment

West Fourchon Marsh

Creation & Marsh

Nourishment

COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT

CSA

Approved for Phase I Engineering and Design in January 2015

Project Status Summary Report by Project Priority List

****** SCHEDULES *******

Const End

\$3,201,929

\$5,926,453

Const Start

Actual ***** ESTIMATES ****** Obligations/ Expenditures **Approved Funded** % Lead Agency: NMFS, NATIONAL MARINE FISHERIES SERVICE \$2,724,524 \$2,724,524 100.0 \$2,591,970 \$1,450,866

\$3,201,929

\$5,926,453

100.0

100.0

- 2 Project(s)
- 0 Cost Sharing Agreements Executed

Total Priority List NMFS 24

BASIN

CA/SB

Status:

TERRE

Status:

PARISH

CAMER

LAFOU

ACRES

497

304

801

- 0 Construction Started
- 0 Construction Completed
- 0 Project(s) Deferred/Deauthorized

Notes:

- 1. Expenditures based on Corps of Engineers financial data.
- 2. Date codes: A = Actual date * = Behind schedule
- 3. Percent codes: ! = 125% of baseline estimate exceeded

06-May-2019 Page 142

\$2,982,205

\$1,473,494

\$5,574,174 \$2,924,360

COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT

Project Status Summary Report by Project Priority List

06-May-2019 Page 143

			v	*****	**** SCHEDULES	-	****** I	ESTIMATES ***	*****	Actual Obligations/
PROJECT	BASIN	PARISH	ACRES	CSA	Const Start	Const End	Approved	Funded	%	Expenditures
PPL Total 24					1,312		\$11,045,165	\$11,045,165	100.0	\$7,369,825 \$3,861,388

- 4 Project(s)
- 1 Cost Sharing Agreements Executed
- 0 Construction Started
- 0 Construction Completed
- 0 Project(s) Deferred/Deauthorized

- 1. Expenditures based on Corps of Engineers financial data.
- 2. Date codes: A = Actual date * = Behind schedule
- 3. Percent codes: ! = 125% of baseline estimate exceeded

COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT

Project Status Summary Report by Project Priority List

Actual ****** SCHEDULES ******* ****** ESTIMATES ****** Obligations/ Expenditures **PROJECT BASIN** PARISH ACRES **CSA Const Start Const End Approved Funded** % **Priority List 25** Lead Agency: EPA, REGION 6 Caminada Headlands **BARA** LAFOU 207 \$3,034,310 \$3,034,310 100.0 \$2,730,776 Back Barrier Marsh \$841,285 Status: Creation II Total Priority List EPA 25 207 \$3,034,310 \$3.034.310 100.0 \$2,730,776 \$841,285

- 0 Construction Completed
- 0 Project(s) Deferred/Deauthorized

Notes:

- 1. Expenditures based on Corps of Engineers financial data.
- 2. Date codes: A = Actual date *= Behind schedule
- 3. Percent codes: ! = 125% of baseline estimate exceeded

06-May-2019 Page 144

¹ Project(s)

⁰ Cost Sharing Agreements Executed

⁰ Construction Started

COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT

06-May-2019 Page 145

Actual

Project Status Summary Report by Project Priority List

				*****	*** SCHEDULES	*****	****** ES	TIMATES ****	****	Obligations/
PROJECT	BASIN	PARISH	ACRES	CSA	Const Start	Const End	Approved	Funded	%	Expenditures
Priority List 25		Lea	d Agency:	NMFS, NA	IIONAL MARI	NE FISHERIES	SERVICE			
East Leeville Marsh Creation and Nourishment	BARA Status:	LAFOU	322				\$4,026,090	\$4,026,090	100.0	\$3,635,711 \$693,414
Frichie Marsh Creation and Terracing	PONT Status:	STTAM	290				\$3,033,294	\$3,033,294	100.0	\$643,331 \$208,785
Oyster Lake Marsh Creation and Nourishment	CA/SB Status:	CAMER	438				\$3,608,939	\$3,608,939	100.0	\$3,253,940 \$331,900
Shoreline Protection, Preservation, and Restoration Panel (DEMO)	COAST Status:	COAST					\$2,215,514	\$2,215,514	100.0	\$461,386 \$141,685

- 1. Expenditures based on Corps of Engineers financial data.
- 2. Date codes: A = Actual date * = Behind schedule
- 3. Percent codes: ! = 125% of baseline estimate exceeded

COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT

Project Status Summary Report by Project Priority List

06-May-2019 Page 146

Actual

				*****	*** SCHEDULES *	****	***** ES	TIMATES ****	****	Obligations/	
PROJECT	BASIN	PARISH	ACRES	CSA	Const Start	Const End	Approved	Funded	%	Expenditures	
	Total Priority List NMFS	25	1,050				\$12,883,837	\$12,883,837	100.0	\$7,994,367 \$1,375,784	

- 4 Project(s)
- 0 Cost Sharing Agreements Executed
- 0 Construction Started
- 0 Construction Completed
- 0 Project(s) Deferred/Deauthorized

- 1. Expenditures based on Corps of Engineers financial data.
- 2. Date codes: A = Actual date * = Behind schedule
- 3. Percent codes: ! = 125% of baseline estimate exceeded

COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT

Project Status Summary Report by Project Priority List

06-May-2019 Page 147

Actual ****** SCHEDULES ******* ***** ESTIMATES ****** Obligations/ **PROJECT BASIN** PARISH ACRES **CSA Const Start Const End Approved Funded** % **Expenditures** Lead Agency: NRCS, **Priority List 25** Barataria Bay Rim Marsh **BARA JEFF** 251 25-Jul-2017 A 01-Nov-2020 01-Nov-2021 \$2,693,708 \$2,693,708 100.0 \$2,012,834 Creation \$49 Status: Total Priority List NRCS 25 251 \$2,693,708 \$2,693,708 100.0 \$2.012.834 \$49 1 Project(s) 1 Cost Sharing Agreements Executed 0 Construction Started 0 Construction Completed 0 Project(s) Deferred/Deauthorized **PPL Total** 25 1,508 \$18,611,855 \$18,611,855 100.0 \$12,737,978 \$2,217,118

- 6 Project(s)
- 1 Cost Sharing Agreements Executed
- 0 Construction Started
- 0 Construction Completed
- 0 Project(s) Deferred/Deauthorized

- 1. Expenditures based on Corps of Engineers financial data.
- 2. Date codes: A = Actual date *= Behind schedule
- 3. Percent codes: ! = 125% of baseline estimate exceeded

COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT

06-May-2019 Page 148

Actual

Project Status Summary Report by Project Priority List

				******* SCHEDULES ********			****** ESTIMATES ******			Obligations/
PROJECT	BASIN	PARISH	ACRES	CSA	Const Start	Const End	Approved	Funded	%	Expenditures
Priority List 26		Lea	d Agency:	FWS, FISH	& WILDLIFE S	ERVICE				
Salvinia Weevil Propagation Facility	COAST Status:	COAST	26				\$3,802,748	\$934,567	24.6	\$0 \$11,372
St. Catherine Island Marsh Creation & Shoreline Protection	PONT Status:	STTAM	214				\$2,389,308	\$2,389,308	100.0	\$262,848 \$273
Total Pri 2 Project(s	ority List FWS	26	240				\$6,192,056	\$3,323,875	53.7	\$262,848 \$11,645

- 0 Cost Sharing Agreements Executed
- 0 Construction Started
- 0 Construction Completed
- 0 Project(s) Deferred/Deauthorized

- 1. Expenditures based on Corps of Engineers financial data.
- 2. Date codes: A = Actual date * = Behind schedule
- 3. Percent codes: ! = 125% of baseline estimate exceeded

COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT

Project Status Summary Report by Project Priority List

06-May-2019 Page 149

Actual

****** SCHEDULES ******* ***** ESTIMATES ****** Obligations/ Expenditures **PROJECT BASIN** PARISH ACRES **CSA Const Start Const End Approved Funded** % **Priority List 26** Lead Agency: NMFS, NATIONAL MARINE FISHERIES SERVICE Bayou DeCade Ridge and TERRE TERRE 378 \$3,282,292 \$3,282,292 100.0 \$2,954,062 Marsh Creation \$734,987 Status: Total Priority List NMFS 26 378 \$3,282,292 \$3,282,292 100.0 \$2,954,062 \$734,987

- 1 Project(s)
- 0 Cost Sharing Agreements Executed
- 0 Construction Started
- 0 Construction Completed
- 0 Project(s) Deferred/Deauthorized

- 1. Expenditures based on Corps of Engineers financial data.
- 2. Date codes: A = Actual date * = Behind schedule
- 3. Percent codes: ! = 125% of baseline estimate exceeded

COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT

Project Status Summary Report by Project Priority List

				*****	**** SCHEDULES	*****	****** F	STIMATES ***	****	Obligations/
PROJECT	BASIN	PARISH	ACRES	CSA	Const Start	Const End	Approved	Funded	%	Expenditures
Priority List 26		Lea	nd Agency:	NRCS,						
Bayou LaLoutre Ridge and Marsh Creation	PT/BR	STBER	187				\$3,236,952	\$3,236,952	100.0	\$325,862
and Marsh Cleation	Status:									\$214
Total Pri	iority List NRCS	26	187				\$3,236,952	\$3,236,952	100.0	\$325,862 \$214
1 Project(s	s)									
0 Cost Sha	aring Agreements I	Executed								
0 Construc	ction Started									
0 Construc	ction Completed									
0 Project(s	s) Deferred/Deauth	orized								
PPL Total 26					805		\$12,711,300	\$9,843,119	77.4	\$3,542,772 \$746,847

- 4 Project(s)
- 0 Cost Sharing Agreements Executed
- 0 Construction Started
- 0 Construction Completed
- 0 Project(s) Deferred/Deauthorized

Notes:

- 1. Expenditures based on Corps of Engineers financial data.
- 2. Date codes: A = Actual date * = Behind schedule
- 3. Percent codes: ! = 125% of baseline estimate exceeded

06-May-2019 Page 150

Actual

COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT

06-May-2019 Page 151

Actual

Project Status Summary Report by Project Priority List

DDO IECE	D A CIDA	DA DIGII	A CIDEC		**** SCHEDULES			STIMATES ****		Obligations/
PROJECT	BASIN	PARISH	ACRES	CSA	Const Start	Const End	Approved	Funded	%	Expenditures
Priority List 27		Lea	d Agency:	FWS, FISH	& WILDLIFE S	SERVICE				
Bayou Cane Marsh Creation	PONT Status:	STTAM	356				\$3,239,930	\$3,239,930	100.0	\$0 \$0
Mid Breton Landbridge Marsh Creation and Terracing	BRET Status:	PLAQ	364				\$3,715,463	\$3,715,463	100.0	\$0 \$0
Sabine Marsh Creation Cycles 6 & 7	CA/SB Status:	CAMER	900				\$3,824,731	\$3,824,731	100.0	\$100,000 \$0
Total Prio	ority List FWS	27	1,620				\$10,780,124	\$10,780,124	100.0	\$100,000 \$0

- 3 Project(s)
- 0 Cost Sharing Agreements Executed
- 0 Construction Started
- 0 Construction Completed
- 0 Project(s) Deferred/Deauthorized

- 1. Expenditures based on Corps of Engineers financial data.
- 2. Date codes: A = Actual date * = Behind schedule
- 3. Percent codes: ! = 125% of baseline estimate exceeded

COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT

06-May-2019 Page 152 **Actual**

Project Status Summary Report by Project Priority List

					******	*** SCHEDULES	*****	****** F	ESTIMATES ***	*****	Obligations/
PROJECT	Γ	BASIN	PARISH	ACRES	CSA	Const Start	Const End	Approved	Funded	%	Expenditures
Priority Lis	t 27		Lea	nd Agency:	NRCS, NAT SERVICE	URAL RESOU	RCES CONSI	ERVATION			
Northeast Turtle Marsh Creation a Critical Area Sho Protection	ind	BARA Status:	JEFF	372				\$3,952,451	\$3,952,451	100.0	\$0 \$0
	Total Priority I	Agreements E		372				\$3,952,451	\$3,952,451	100.0	\$0 \$0
(Construction S Construction C Project(s) Defe	Completed	orized								
PPL Total 2	7				1	,992		\$14,732,575	\$14,732,575	100.0	\$100,000 \$0

- 4 Project(s)
- 0 Cost Sharing Agreements Executed
- 0 Construction Started
- 0 Construction Completed
- 0 Project(s) Deferred/Deauthorized

- 1. Expenditures based on Corps of Engineers financial data.
- 2. Date codes: A = Actual date *= Behind schedule
- 3. Percent codes: ! = 125% of baseline estimate exceeded

COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT

06-May-2019 Page 153

Actual

Project Status Summary Report by Project Priority List

				*****	**** SCHEDULES *	*****	***** ES	TIMATES ****	****	Obligations/
PROJECT	BASIN	PARISH	ACRES	CSA	Const Start	Const End	Approved	Funded	%	Expenditures
Priority List 28		Lea	nd Agency:	, FISH & W	/ILDLIFE SERV	ICE				
Breton Landbridge Marsh Creation	BRET Status:	PLAQ	372				\$3,837,364	\$3,837,364	100.0	\$0 \$0
East Delacroix Marsh Creation and Terracing	BRET Status:	STBER	314				\$3,642,501	\$3,642,501	100.0	\$0 \$0
Grand Bayou Ridge and Marsh Restoration	BARA Status:	PLAQ	336				\$3,463,474	\$3,463,474	100.0	\$0 \$0
Long Point Bayou Marsh Creation	CA/SB Status:	CAMER	332				\$2,295,824	\$2,295,824	100.0	\$0 \$0

- 1. Expenditures based on Corps of Engineers financial data.
- 2. Date codes: A = Actual date * = Behind schedule
- 3. Percent codes: ! = 125% of baseline estimate exceeded

COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT

06-May-2019 Page 154

Actual

Project Status Summary Report by Project Priority List

PROJE	CCT BASIN	PARISH	ACRES	******* CSA	*** SCHEDULES Const Start	********* Const End	******* E Approved	STIMATES *** Funded	***** %	Obligations/ Expenditures
	Total Priority List	28	1,354				\$13,239,163	\$13,239,163	100.0	\$0 \$0
	 4 Project(s) 0 Cost Sharing Agreements 0 Construction Started 0 Construction Completed 0 Project(s) Deferred/Deauth 									
PPL Total	28			1	,354		\$13,239,163	\$13,239,163	100.0	\$0 \$0

- 4 Project(s)
- 0 Cost Sharing Agreements Executed
- 0 Construction Started
- 0 Construction Completed
- 0 Project(s) Deferred/Deauthorized

- 1. Expenditures based on Corps of Engineers financial data.
- 2. Date codes: A = Actual date * = Behind schedule
- 3. Percent codes: ! = 125% of baseline estimate exceeded

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COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT

06-May-2019

Project Status Summary Report - Total All Priority Lists

****** ESTIMATES ******

PROJECT		ACRES	Baseline	Current	%	Obligations	Expenditures
SUMMARY	Total All Projects	118,991	\$2,112,153,544	\$1,811,737,068	85.8	\$1,435,185,867	\$1,252,324,904

- 222 Project(s)
- 174 Cost Sharing Agreements Executed
- 15 Construction Started
- 112 Construction Completed
- 60 Project(s) Deauthorized/Transferred/Inactived

COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT

06-May-2019 Page 1

		No. of Projects	Acres	CSA Executed	Under Const.	Completed	Projects Deauth.	Current Approved Estimate	Current Funded Estimate	Expenditures To Date
Basin: Atchafala	ya									
Priority List:	2	2	3,792	2	2	2	0	\$9,458,771	\$9,458,771	\$9,146,361
Priority List:	9	1		1	0	0	1	\$1,717,883	\$1,717,883	\$1,717,883
Basin To	tal	3	3,792	3	2	2	1	\$11,176,653	\$11,176,653	\$10,864,244

COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT Project Status Summary Report by Basin

06-May-2019 Page 2

		No. of Projects	Acres	CSA Executed	Under Const.	Completed	Projects Deauth.	Current Approved Estimate	Current Funded Estimate	Expenditures To Date
Basin: Barataria										
Priority List:	1	3	620	3	3	3	0	\$14,124,565	\$14,012,727	\$12,007,209
Priority List:	2	1	510	1	1	1	0	\$28,896,380	\$28,896,380	\$22,729,057
Priority List:	3	3	0	3	1	1	2	\$3,991,376	\$3,991,376	\$3,991,376
Priority List:	4	2	232	2	1	1	1	\$3,740,239	\$3,738,748	\$3,643,935
Priority List:	5	2	633	2	1	1	1	\$2,791,441	\$2,772,827	\$2,593,483
Priority List:	6	1	217	1	1	1	0	\$5,224,477	\$5,224,477	\$4,779,992
Priority List:	7	2	1,431	2	2	2	0	\$28,189,439	\$28,189,439	\$26,771,461
Priority List:	9	3	599	3	1	0	1	\$48,693,593	\$39,712,867	\$27,847,317
Priority List:	10	2	8,891	1	1	0	0	\$10,430,029	\$7,763,773	\$5,051,502
Priority List:	11	5	2,171	5	5	5	0	\$175,393,415	\$162,894,531	\$151,618,375
Priority List:	12	1	326	1	1	1	0	\$27,702,941	\$27,231,106	\$42,533,717
Priority List:	14	2	106	2	1	1	1	\$24,574,599	\$22,788,149	\$20,814,680
Priority List:	15	1	447	1	1	1	0	\$34,858,396	\$34,409,336	\$34,185,117
Priority List:	17	2	186	2	1	1	1	\$39,566,019	\$38,852,210	\$36,265,635
Priority List:	18	1	370	0	1	1	0	\$42,579,616	\$42,227,680	\$33,635,315
Priority List:	19	1		1	0	0	1	\$1,042,540	\$1,042,540	\$1,042,540
Priority List:	21	1	432	1	1	0	0	\$33,664,671	\$32,607,095	\$1,650,146
Priority List:	22	2	432	2	1	1	0	\$20,428,278	\$20,023,969	\$13,976,116
Priority List:	23	2	402	1	1	0	0	\$36,265,863	\$34,824,166	\$2,519,899
Priority List:	25	3	780	1	0	0	0	\$9,754,108	\$9,754,108	\$1,534,748
Priority List:	27	1	372	0	0	0	0	\$3,952,451	\$3,952,451	\$0
Priority List:	28	1	336	0	0	0	0	\$3,463,474	\$3,463,474	\$0
Basin To	tal	42	19,493	35	25	21	8	\$599,327,910	\$568,373,429	\$449,191,620

06-May-2019 Page 3

		No. of Projects	Acres	CSA Executed	Under Const.	Completed	Projects Deauth.	Current Approved Estimate	Current Funded Estimate	Expenditures To Date
Basin: Breton So	ound									
Priority List:	2	1	802	1	1	1	0	\$4,536,000	\$4,536,000	\$4,074,360
Priority List:	3	1		1	0	0	1	\$32,862	\$32,862	\$32,862
Priority List:	4	1		0	0	0	1	\$65,747	\$65,747	\$65,747
Priority List:	8	1		0	0	0	1	\$56,476	\$56,476	\$56,476
Priority List:	10	2	267	1	1	1	1	\$3,918,368	\$3,562,096	\$2,954,810
Priority List:	14	1		1	0	0	1	\$1,020,420	\$1,020,420	\$1,020,420
Priority List:	15	1	620	0	0	0	0	\$9,510	\$9,510	\$9,510
Priority List:	17	2	409	2	1	0	1	\$33,165,765	\$32,798,408	\$26,472,231
Priority List:	18	1		1	0	0	1	\$521,984	\$521,984	\$521,984
Priority List:	27	1	364	0	0	0	0	\$3,715,463	\$3,715,463	\$0
Priority List:	28	2	686	0	0	0	0	\$7,479,865	\$7,479,865	\$0
Basin To	tal	14	3,148	7	3	2	7	\$54,522,460	\$53,798,831	\$35,208,399

06-May-2019 Page 4

		No. of Projects	Acres	CSA Executed	Under Const.	Completed	Projects Deauth.	Current Approved Estimate	Current Funded Estimate	Expenditures To Date
Basin: Calcasie	u/Sabi	ne								
Priority List:	1	3	6,407	3	3	3	0	\$3,988,112	\$3,043,576	\$2,710,743
Priority List:	2	4	2,737	4	3	3	1	\$12,215,124	\$12,212,916	\$10,704,234
Priority List:	3	2	3,555	2	2	2	0	\$18,073,408	\$11,434,169	\$8,832,938
Priority List:	4	3	1,203	3	2	2	1	\$2,869,451	\$2,869,451	\$2,483,106
Priority List:	5	1	247	1	1	1	0	\$3,929,152	\$3,929,152	\$3,438,952
Priority List:	6	1	3,594	1	1	1	0	\$12,698,222	\$12,462,252	\$6,448,500
Priority List:	8	4	993	4	4	4	0	\$27,392,908	\$26,808,464	\$23,124,987
Priority List:	9	2	623	2	2	2	0	\$19,103,768	\$18,519,164	\$16,488,118
Priority List:	10	1	225	1	1	1	0	\$6,049,990	\$5,006,506	\$4,788,001
Priority List:	11.1	1	330	1	1	1	0	\$14,130,233	\$14,130,233	\$13,999,802
Priority List:	18	1	218	1	1	0	0	\$26,776,736	\$21,171,677	\$1,944,111
Priority List:	20	2	750	2	1	0	0	\$31,068,297	\$30,482,911	\$2,767,819
Priority List:	21	1	433	1	1	0	0	\$31,236,742	\$30,732,407	\$22,171,801
Priority List:	22	1	326	0	1	0	0	\$38,499,572	\$37,503,664	\$3,148,781
Priority List:	24	1	497	0	0	0	0	\$2,724,524	\$2,724,524	\$1,450,866
Priority List:	25	1	438	0	0	0	0	\$3,608,939	\$3,608,939	\$331,900
Priority List:	27	1	900	0	0	0	0	\$3,824,731	\$3,824,731	\$0
Priority List:	28	1	332	0	0	0	0	\$2,295,824	\$2,295,824	\$0
Basin T	otal	31	23,808	26	24	20	2	\$260,485,733	\$242,760,559	\$124,834,660

06-May-2019 Page 5

		No. of Projects	Acres	CSA Executed	Under Const.	Completed	Projects Deauth.	Current Approved Estimate	Current Funded Estimate	Expenditures To Date
Basin: Coastal	Basins									
Priority List:	Cons Plan	1		1	1	0	0	\$191,807	\$191,807	\$143,855
Priority List:	0.1	1		1	1	0	0	\$316,907,558	\$136,907,559	\$93,881,327
Priority List:	0.2	1		1	1	0	0	\$1,500,000	\$1,500,000	\$666,704
Priority List:	0.3	1		1	1	0	0	\$569,586	\$569,586	\$426,056
Priority List:	0.4	1	0	1	1	0	0	\$1,598,055	\$1,598,055	\$951,466
Priority List:	6	1	0	1	1	1	0	\$806,220	\$806,220	\$806,220
Priority List:	9	1		0	0	0	1	\$83,556	\$83,556	\$83,556
Priority List:	10	1	0	1	1	1	0	\$2,747,094	\$2,747,094	\$2,713,702
Priority List:	11	1	14,963	1	1	1	0	\$68,040,614	\$41,894,677	\$29,228,361
Priority List:	12	1	0	1	1	1	0	\$1,068,602	\$1,068,602	\$1,068,602
Priority List:	13	1	0	1	1	1	0	\$707,839	\$707,839	\$707,839
Priority List:	16	1	0	1	1	1	0	\$591,998	\$591,998	\$591,998
Priority List:	17	1	0	1	1	1	0	\$970,726	\$970,726	\$883,702
Priority List:	18	1	0	1	1	0	0	\$6,472,800	\$6,472,800	\$5,671,044
Priority List:	20	1	779	1	1	0	0	\$12,689,725	\$12,217,614	\$4,540,900
Priority List:	25	1		0	0	0	0	\$2,215,514	\$2,215,514	\$141,685
Priority List:	26	1	26	0	0	0	0	\$3,802,748	\$934,567	\$11,372
Basin T	Total	17	15,768	14	14	7	1	\$420,964,442	\$211,478,214	\$142,518,390

COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT

06-May-2019 Page 6

		No. of Projects	Acres	CSA Executed	Under Const.	Completed	Projects Deauth.	Current Approved Estimate	Current Funded Estimate	Expenditures To Date
Basin: Miss. Riv	er Del	ta								
Priority List:	1	1	9,831	1	1	1	0	\$50,863,503	\$50,863,503	\$44,396,693
Priority List:	3	2	936	1	1	1	1	\$1,004,105	\$1,004,105	\$886,403
Priority List:	4	1		1	0	0	1	\$58,310	\$58,310	\$58,310
Priority List:	6	2	2,386	2	2	2	0	\$6,632,965	\$6,632,965	\$5,086,910
Priority List:	10	1		0	0	0	1	\$978,100	\$978,100	\$978,100
Priority List:	12	1		0	0	0	1	\$354,791	\$354,791	\$354,791
Priority List:	13	1		0	0	0	1	\$310,152	\$310,152	\$310,152
Priority List:	15	1	318	1	0	0	0	\$611,222	\$611,222	\$611,222
Basin To	tal	10	13,471	6	4	4	5	\$60,813,148	\$60,813,148	\$52,682,581

06-May-2019 Page 7

		No. of Projects	Acres	CSA Executed	Under Const.	Completed	Projects Deauth.	Current Approved Estimate	Current Funded Estimate	Expenditures To Date
Basin: Merment	au									
Priority List:	1	2	247	2	2	1	1	\$1,319,270	\$1,319,270	\$1,153,804
Priority List:	2	1	1,593	1	1	1	0	\$9,871,228	\$6,035,582	\$5,703,670
Priority List:	3	1		1	1	0	1	\$103,468	\$103,468	\$103,468
Priority List:	5	1	511	1	1	1	0	\$8,913,357	\$5,547,666	\$5,316,085
Priority List:	7	1	442	1	1	1	0	\$2,485,502	\$2,485,502	\$2,348,454
Priority List:	8	1	378	1	1	1	0	\$1,574,926	\$1,574,926	\$1,240,096
Priority List:	9	2	296	2	1	1	1	\$7,646,218	\$6,663,729	\$6,486,528
Priority List:	10	2	469	2	2	1	0	\$42,914,856	\$38,225,776	\$6,935,115
Priority List:	11	2	459	2	2	1	0	\$32,678,962	\$29,366,099	\$7,355,103
Priority List:	12	1	844	1	1	1	0	\$14,566,733	\$10,683,541	\$10,474,289
Priority List:	15	1		1	0	0	1	\$779,422	\$779,422	\$779,422
Priority List:	16	1	888	0	0	0	0	\$10,657	\$10,657	\$10,657
Priority List:	17	1	0	0	1	1	0	\$2,244,785	\$2,244,785	\$2,152,725
Priority List:	19	1	279	1	0	0	0	\$2,425,997	\$2,425,997	\$1,668,449
Priority List:	23	1	393	0	0	0	0	\$2,653,242	\$2,653,242	\$571,527
Basin To	otal	19	6,799	16	14	10	4	\$130,188,624	\$110,119,663	\$52,299,392

COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT Project Status Summary Report by Basin

06-May-2019 Page 8

		No. of Projects	Acres	CSA Executed	Under Const.	Completed	Projects Deauth.	Current Approved Estimate	Current Funded Estimate	Expenditures To Date
Basin: Pontchart	rain									
Priority List:	1	2	1,753	2	2	2	0	\$5,398,108	\$5,398,108	\$5,197,417
Priority List:	2	2	2,320	2	2	2	0	\$3,894,225	\$3,894,225	\$3,366,841
Priority List:	3	3	755	3	1	1	2	\$967,201	\$967,201	\$967,201
Priority List:	4	1		0	0	0	1	\$39,025	\$39,025	\$39,025
Priority List:	5	1	75	1	1	1	0	\$2,589,403	\$2,589,403	\$2,397,760
Priority List:	8	2	134	2	1	1	1	\$2,493,439	\$2,493,439	\$2,199,376
Priority List:	9	3	220	2	1	1	2	\$1,230,695	\$1,230,695	\$1,230,695
Priority List:	10	1	165	1	1	1	0	\$27,479,959	\$27,226,547	\$20,309,754
Priority List:	11	1	5,438	1	0	0	0	\$6,554,124	\$6,554,124	\$6,554,124
Priority List:	12	1		0	0	0	1	\$1,089,193	\$1,089,193	\$1,089,193
Priority List:	13	1	436	1	1	1	0	\$14,558,123	\$14,458,030	\$14,049,473
Priority List:	16	1	181	1	0	0	0	\$1,364,230	\$1,364,230	\$1,364,230
Priority List:	19	1	715	1	0	0	0	\$2,571,273	\$2,571,273	\$2,328,857
Priority List:	20	1	478	1	1	0	0	\$28,253,969	\$27,648,895	\$4,121,870
Priority List:	21	1	731	1	0	0	0	\$3,885,298	\$3,885,298	\$1,774,823
Priority List:	24	2	511	1	0	0	0	\$5,118,712	\$5,118,712	\$937,028
Priority List:	25	1	290	0	0	0	0	\$3,033,294	\$3,033,294	\$208,785
Priority List:	26	1	214	0	0	0	0	\$2,389,308	\$2,389,308	\$273
Priority List:	27	1	356	0	0	0	0	\$3,239,930	\$3,239,930	\$0
Basin To	tal	27	14,772	20	11	10	7	\$116,149,510	\$115,190,931	\$68,136,726
Basin: Lake Pon	t. & I	Breton				-				-
Priority List:	26	1	187	0	0	0	0	\$3,236,952	\$3,236,952	\$214
Basin To	tal	1	187	0	0	0	0	\$3,236,952	\$3,236,952	\$214

COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT

06-May-2019 Page 9

		No. of Projects	Acres	CSA Executed	Under Const.	Completed	Projects Deauth.	Current Approved Estimate	Current Funded Estimate	Expenditures To Date
Basin: Teche / V	⁷ ermili	on								
Priority List:	1	1	65	1	1	1	0	\$2,047,479	\$2,047,479	\$2,011,627
Priority List:	2	1	378	1	1	1	0	\$1,043,748	\$1,043,748	\$903,545
Priority List:	3	1	2,223	1	1	1	0	\$10,093,909	\$10,037,989	\$9,843,784
Priority List:	5	1	441	1	1	1	0	\$886,030	\$886,030	\$772,779
Priority List:	6	4	2,567	4	4	4	0	\$10,416,350	\$10,416,350	\$9,103,056
Priority List:	8	1	24	1	1	1	0	\$1,181,129	\$1,181,129	\$1,149,178
Priority List:	9	3	686	1	1	1	0	\$5,428,731	\$3,876,950	\$3,743,336
Priority List:	13	1		1	0	0	1	\$1,855,824	\$1,855,824	\$1,855,824
Priority List:	14	1	169	1	1	1	0	\$17,765,813	\$17,439,420	\$17,690,191
Priority List:	21	1	340	0	1	0	0	\$25,635,641	\$24,169,491	\$2,608,023
Basin To	otal	15	6,893	12	12	11	1	\$76,354,653	\$72,954,409	\$49,681,344

COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT Project Status Summary Report by Basin

06-May-2019 Page 10

		No. of Projects	Acres	CSA Executed	Under Const.	Completed	Projects Deauth.	Current Approved Estimate	Current Funded Estimate	Expenditures To Date
Basin: Terrebon	me									
Priority List:	1	5	9	4	3	3	2	\$9,406,759	\$9,406,759	\$9,278,765
Priority List:	2	3	958	3	3	3	0	\$23,145,874	\$23,145,874	\$20,761,825
Priority List:	3	4	3,958	4	4	4	0	\$25,106,295	\$24,861,449	\$23,514,511
Priority List:	4	2	215	2	1	1	1	\$7,707,111	\$7,707,111	\$7,655,026
Priority List:	5	3	0	3	1	1	2	\$4,740,460	\$4,740,460	\$4,703,403
Priority List:	5.1	1		1	0	0	1	\$7,452,191	\$7,452,191	\$7,452,191
Priority List:	6	4	941	2	1	1	2	\$43,465,900	\$37,747,287	\$17,468,702
Priority List:	7	1	0	1	1	1	0	\$538,101	\$538,101	\$538,101
Priority List:	9	4	577	4	4	4	0	\$32,794,036	\$31,199,856	\$30,485,007
Priority List:	10	2	668	2	2	2	0	\$49,757,119	\$46,540,402	\$43,751,945
Priority List:	11	3	543	3	2	2	0	\$44,912,175	\$42,586,465	\$36,576,902
Priority List:	12	1		0	0	0	1	\$1,736,137	\$1,736,137	\$1,736,137
Priority List:	13	1	272	1	1	1	0	\$30,414,086	\$30,207,395	\$24,908,848
Priority List:	16	2	639	2	1	1	0	\$43,981,456	\$43,783,508	\$27,763,942
Priority List:	18	1	233	1	0	0	0	\$2,326,289	\$2,326,289	\$1,343,138
Priority List:	19	1	452	1	1	1	0	\$35,125,857	\$31,531,382	\$3,376,406
Priority List:	20	1		0	0	0	1	\$2,901,750	\$2,901,750	\$801,388
Priority List:	22	1	401	1	0	0	0	\$3,216,194	\$3,216,194	\$778,242
Priority List:	23	1	312	0	0	0	0	\$3,721,447	\$3,721,447	\$1,804,374
Priority List:	24	1	304	0	0	0	0	\$3,201,929	\$3,201,929	\$1,473,494
Priority List:	26	1	378	0	0	0	0	\$3,282,292	\$3,282,292	\$734,987
Basin To	otal	43	10,860	35	25	25	10	\$378,933,458	\$361,834,278	\$266,907,334
otal All Basins		222	118,991	174	134	112	46	\$2,112,153,544	\$1,811,737,068	\$1,252,324,904

			Туре	Total	Engineering	Real Estate	Construction	Monitoring	O & M	Contingency
Priority List	0	Total	Current Approved	191,807.00	191,807.00	0.00	0.00	0.00	0.00	0.00
			Current Funded	191,807.00	191,807.00	0.00	0.00	0.00	0.00	0.00
Priority List	0.1	Total	Current Approved	316,907,558.16	0.00	0.00	0.00	316,907,558.16	0.00	0.00
			Current Funded	136,907,558.62	0.00	0.00	0.00	136,907,558.62	0.00	0.00
Priority List	0.2	Total	Current Approved	1,500,000.00	0.00	0.00	0.00	1,500,000.00	0.00	0.00
			Current Funded	1,500,000.00	0.00	0.00	0.00	1,500,000.00	0.00	0.00
Priority List	0.3	Total	Current Approved	569,585.92	0.00	0.00	0.00	0.00	569,585.92	0.00
			Current Funded	569,585.92	0.00	0.00	0.00	0.00	569,585.92	0.00
Priority List	0.4	Total	Current Approved	1,598,055.00	1,598,055.00	0.00	0.00	0.00	0.00	0.00
			Current Funded	1,598,055.00	1,598,055.00	0.00	0.00	0.00	0.00	0.00
Priority List	1	Total	Current Approved	87,147,795.81	3,964,516.67	1,224,777.18	25,916,415.96	4,667,825.73	51,374,260.27	0.00
			Current Funded	86,091,421.81	3,964,516.67	1,224,777.18	25,916,415.96	4,667,825.73	50,317,886.27	0.00
Priority List	2	Total	Current Approved	93,061,350.33	6,060,963.73	680,028.71	53,018,664.37	7,828,197.88	25,473,495.64	0.00
			Current Funded	89,223,496.33	6,058,782.37	680,028.71	53,020,845.73	7,856,572.88	21,607,266.64	0.00
Priority List	3	Total	Current Approved	59,372,625.21	4,634,551.51	261,183.60	25,350,948.35	5,685,060.75	23,440,881.00	0.00
			Current Funded	52,432,620.21	4,634,551.51	261,183.60	25,350,948.35	4,660,412.75	17,525,524.00	0.00
Priority List	4	Total	Current Approved	14,479,882.76	1,865,719.55	224,438.57	10,233,178.28	626,805.89	1,529,740.47	0.00
			Current Funded	14,478,391.76	1,865,719.55	224,438.57	10,233,178.28	626,805.89	1,528,249.47	0.00

			Туре	Total	Engineering	Real Estate	Construction	Monitoring	O & M	Contingency
riority List	5	Total	Current Approved	23,849,842.49	4,661,382.22	162,120.25	8,916,757.54	1,744,286.48	8,365,296.00	0.00
			Current Funded	20,465,537.49	4,661,382.22	162,120.25	8,916,757.54	1,725,672.48	4,999,605.00	0.00
iority List	5.1	Total	Current Approved	7,452,190.98	7,355,189.24	40,595.10	0.00	56,406.64	0.00	0.00
			Current Funded	7,452,190.98	7,355,189.24	40,595.10	0.00	56,406.64	0.00	0.00
iority List	6	Total	Current Approved	79,244,133.64	7,110,489.51	811,137.60	41,887,983.70	5,622,819.83	20,816,729.00	2,994,974.00
			Current Funded	73,289,550.64	7,110,489.51	811,137.60	41,887,983.70	4,796,963.83	15,688,002.00	2,994,974.00
iority List	7	Total	Current Approved	31,213,042.47	1,773,716.11	87,162.93	26,678,166.92	945,855.21	1,728,141.30	0.00
			Current Funded	31,213,042.47	1,773,716.11	87,162.93	26,678,166.92	945,855.21	1,728,141.30	0.00
riority List	8	Total	Current Approved	32,698,879.02	2,198,384.18	893,328.98	22,973,151.76	2,113,530.74	4,520,483.36	0.00
			Current Funded	32,114,434.32	2,198,384.48	893,328.98	22,973,151.76	1,687,995.74	4,361,573.36	0.00
riority List	9	Total	Current Approved	116,698,479.87	15,183,361.50	651,074.50	72,795,657.61	2,498,890.55	25,569,495.71	0.00
			Current Funded	103,004,700.16	15,183,361.50	651,074.50	72,795,657.61	1,746,787.55	12,627,819.00	0.00
riority List	10	Total	Current Approved	144,275,514.16	16,981,251.90	868,278.54	95,924,367.90	3,874,886.82	21,119,918.00	5,506,811.00
			Current Funded	132,050,293.16	16,981,251.90	868,278.54	97,381,690.90	1,879,826.82	10,889,756.00	4,049,489.00
riority List	11	Total	Current Approved	327,579,291.09	25,169,315.94	3,003,687.99	192,391,605.35	6,141,089.81	97,247,573.00	3,626,019.00
			Current Funded	283,295,897.13	25,169,315.94	3,003,687.99	192,391,605.35	3,865,782.73	55,239,486.12	3,626,019.00
riority List	11.1	Total	Current Approved	14,130,232.86	531,498.25	13,142.53	12,964,592.08	281,000.00	340,000.00	0.00
			Current Funded	14,130,232.86	531,498.25	13,142.53	12,964,592.08	281,000.00	340,000.00	0.00

Contingency	O & M	Monitoring	Construction	Real Estate	Engineering	Total	Туре			
4,880,212.00	4,590,963.97	969,618.66	29,791,525.59	314,398.23	5,971,677.67	46,518,396.12	Current Approved	Total	12	Priority List
4,880,212.00	249,680.97	955,874.66	29,791,525.59	314,398.23	5,971,677.67	42,163,369.12	Current Funded			
3,080,973.00	925,124.00	481,001.96	37,055,204.18	220,861.64	6,082,859.83	47,846,024.61	Current Approved	Total	13	Priority List
0.00	721,382.00	377,959.96	40,136,177.18	220,861.64	6,082,859.83	47,539,240.61	Current Funded			
0.00	6,329,034.00	369,974.00	29,464,511.65	116,545.28	7,080,766.40	43,360,831.33	Current Approved	Total	14	Priority List
0.00	4,351,019.00	235,146.00	29,464,511.65	116,545.28	7,080,766.40	41,247,988.33	Current Funded			
0.00	187,994.00	501,094.00	33,318,032.72	81,177.07	2,170,251.34	36,258,549.13	Current Approved	Total	15	Priority List
0.00	26,422.00	213,606.00	33,318,032.72	81,177.07	2,170,251.34	35,809,489.13	Current Funded			
7,068,336.00	2,798,525.63	134,541.00	29,051,273.75	127,174.79	6,768,490.45	45,948,341.62	Current Approved	Total	16	Priority List
7,068,336.00	2,600,577.63	134,541.00	29,051,273.75	127,174.79	6,768,490.45	45,750,393.62	Current Funded			
3,664,193.00	1,210,198.00	1,094,077.00	62,392,178.11	426,969.73	7,159,679.12	75,947,294.96	Current Approved	Total	17	Priority List
0.00	682,633.00	540,476.00	66,056,371.11	426,969.73	7,159,679.12	74,866,128.96	Current Funded			
4,628,408.17	6,772,256.00	1,792,928.29	54,307,794.49	1,986,351.13	9,189,686.76	78,677,424.84	Current Approved	Total	18	Priority List
4,628,408.17	1,616,758.00	991,431.29	54,307,794.49	1,986,351.13	9,189,686.76	72,720,429.84	Current Funded			
0.00	3,205,880.00	783,478.00	28,414,381.00	365,463.11	8,396,465.32	41,165,667.43	Current Approved	Total	19	Priority List
0.00	198,890.00	195,993.00	28,414,381.00	365,463.11	8,396,465.32	37,571,192.43	Current Funded			
9,459,951.00	11,444,926.00	1,944,782.00	41,660,096.00	498,032.00	9,905,954.00	74,913,741.00	Current Approved	Total	20	Priority List
9,459,951.00	10,667,094.00	1,060,044.00	41,660,096.00	498,032.00	9,905,953.00	73,251,170.00	Current Funded			

			Туре	Total	Engineering	Real Estate	Construction	Monitoring	O & M	Contingency
Priority List	21	Total	Current Approved	94,422,352.00	13,425,171.00	450,776.00	63,214,327.00	2,379,167.00	2,064,565.00	12,888,346.00
			Current Funded	91,394,291.00	13,425,171.00	450,776.00	63,214,327.00	830,218.00	585,453.00	12,888,346.00
Priority List	22	Total	Current Approved	62,144,044.00	12,957,073.00	2,649,893.00	38,139,254.00	1,123,218.00	2,306,687.00	4,967,919.00
			Current Funded	60,743,827.00	12,957,073.00	2,649,893.00	38,139,254.00	183,334.00	1,846,354.00	4,967,919.00
Priority List	23	Total	Current Approved	42,640,552.00	12,052,507.00	1,820,962.00	21,084,125.00	1,048,168.00	2,609,607.00	4,025,183.00
			Current Funded	41,198,855.00	12,052,507.00	1,820,962.00	21,084,125.00	318,943.00	1,897,135.00	4,025,183.00
Priority List	24	Total	Current Approved	11,045,165.00	10,257,022.00	788,143.00	0.00	0.00	0.00	0.00
			Current Funded	11,045,165.00	10,257,022.00	788,143.00	0.00	0.00	0.00	0.00
Priority List	25	Total	Current Approved	18,611,855.00	15,399,337.00	1,510,468.00	936,542.00	172,140.00	373,545.00	219,823.00
			Current Funded	18,611,855.00	15,399,337.00	1,510,468.00	936,542.00	172,140.00	373,545.00	219,823.00
Priority List	26	Total	Current Approved	12,711,300.00	8,586,644.00	582,946.00	142,583.00	912,430.00	2,451,051.00	35,646.00
			Current Funded	9,843,119.00	8,586,644.00	582,946.00	142,583.00	216,836.00	278,464.00	35,646.00
Priority List	27	Total	Current Approved	14,732,575.00	14,241,919.00	490,656.00	0.00	0.00	0.00	0.00
			Current Funded	14,732,575.00	14,241,919.00	490,656.00	0.00	0.00	0.00	0.00
Priority List	28	Total	Current Approved	13,239,163.00	12,475,544.00	763,619.00	0.00	0.00	0.00	0.00
			Current Funded	13,239,163.00	12,475,544.00	763,619.00	0.00	0.00	0.00	0.00

CWPPRA Priority List Estimates

06-May-2019

	Туре	Total	l Engineering	Real Estate	e Construction	Monitoring	O & M	Contingency
Grand Total	Current Approved	2,112,153,543.81	261,401,250.20	22,115,392.46	1,058,023,318.31	374,200,832.40	329,365,956.27	67,046,794.17
	Current Funded	1,811,737,067.90	261,399,068.14	22,115,392.46	1,066,227,988.67	179,632,009.78	223,518,302.68	58,844,306.17