

Lafourche Parish Hazard Mitigation Plan Update

June 2010



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**I. PREREQUISITES—COPY OF FORMAL
PLAN ADOPTION**

with FOREWORD

FOREWORD
LAFOURCHE PARISH, LOUISIANA
HAZARD MITIGATION PLAN

The planning pilot grant program was approved in 2007 to assist Louisiana parishes in completing Hazard Mitigation Plan Updates (HMPU) and Amendments. Lafourche’s original Hazard Mitigation Plan was approved in 2006.

Throughout the HMPU process, the committees determined that the sections of the original Lafourche Parish Hazard Mitigation Plan that needed updating were the Planning Process, Risk Assessment, Mitigation Strategies, and Plan Maintenance along with the applicable attachments.

The Planning Process section updates include specifying plans and project lists incorporated into the HMPU along with relevant attachments. The HMPU also incorporated civic group presentations to further public outreach.

The Risk Assessment section of the Hazard Mitigation Plan Update includes the updating a table of NOAA recorded events, a new tornado profile, and a new multi-jurisdictional risk assessment. Also updated was the table summarizing risk assessment items such as total structures, total value of structures, structures in hazard areas, value of structures in hazard areas, residential population of area, and percent population of area. Applicable attachments were added or updated.

The Mitigation Strategies section was also updated. The goal to reduce or avoid long-term vulnerabilities to the identified hazards remained the same. However, the objectives and action items relative to the established goals were updated. The committee developed a list of priority projects, and the highest prioritized projects were chosen for scoping. These updates were completed including any attachments that apply.

The Plan Maintenance section was also updated to include the procedure and issues to be addressed yearly by a subset of the HMPU committee and public notification of future meetings. The plan will be updated again within a five-year timeframe.

**I. PREREQUISITES—COPY OF FORMAL PLAN ADOPTION
with FOREWORD**

§201.6 (c)(5) Documentation that the plan has been formally adopted by the governing body of the jurisdiction requesting approval of the plan (e.g., City Council, County Commissioner, Tribal Council). For multi-jurisdiction requesting approval of the plan must document that it has been formally adopted.

Documentation that the plan has been formally approved by the governing authorities of Lafourche Parish is presented on the following three pages of this section. Resolutions of the parish governing authority and each separate municipality adopting the plan are included on the following pages in conformance with the plan requirements.

On motion by Phillip Gouaux, seconded by Michael Delatte, the following resolution was introduced and adopted;

RESOLUTION NO. 10-192

A RESOLUTION ADOPTING THE LAFOURCHE PARISH HAZARD MITIGATION PLAN UPDATE DATED JUNE 2010.

WHEREAS, on October 30, 2000, the President signed into law the Disaster Mitigation Act of 2000 (DMA 2000); and

WHEREAS, DMA 2000 amends the Robert T. Stafford Disaster Relief and Emergency Assistance Act by, among other things, adding a new section, 322 - Mitigation Planning which places new emphasis on local mitigation planning; and

WHEREAS, Section 322 requires local governments to develop and submit mitigation plans as a condition of receiving Hazard Mitigation Grant Program (HMGP) project grants; and

WHEREAS, an Interim Final Rule (the Rule) for implementing Section 322 was published in the Federal Register, 44 CFR Parts 201 and 206, on February 26, 2002, with requirements for Local Plans found in Part 201.6; and

WHEREAS, in Louisiana, the Governor's Office of Homeland Security and Emergency Preparedness (GOHSEP) local mitigation planning initiative is focused at the Parish level; and

WHEREAS, all Federal Emergency Management Agency (FEMA) and GOHSEP procedures have been adhered to and approvals obtained; and

WHEREAS, the Lafourche Parish Government participated in preparation of the plan update and supports the plan as it pertains to the entire Parish; and

WHEREAS, this resolution was sponsored for Administration by Mr. Phillip Gouaux, Councilman, District 7; and

WHEREAS, it is recommended by the Administration of the Lafourche Parish Government that the Council adopt the Lafourche Parish Hazard Mitigation Plan Update dated June 2010.

THEREFORE, BE IT RESOLVED, that the Lafourche Parish Council convened in regular session on June 22, 2010, and does hereby adopt the overall Hazard Mitigation Plan Update dated June 2010.

BE IT FURTHER RESOLVED, that a certified copy of this resolution shall be forwarded to Shaw Environmental and Infrastructure Group, c/o Nicole M. Buranzon, 4171 Essen Lane, Baton Rouge, Louisiana 70809; Lafourche Parish Government Office of Emergency Preparedness, Grants & Economic Development Department and the Office of the Parish Administrator.

This resolution having been submitted to a vote, the vote thereon was as follows:

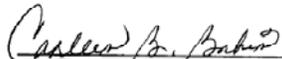
YEAS: Mr. Jerry Jones
Mr. Michael Delatte
Mr. Louis Richard
Mr. Joseph "Joe" Fertitta
Mr. Matt Matherne
Mr. Lindel Toups
Mr. Phillip Gouaux
Mr. Rodney Doucet
Mr. Daniel Lorraine

NAYS: None

ABSENT: None

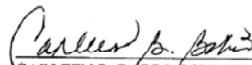
And the resolution was declared adopted this 22nd day of June, 2010.


DANIEL LORRAINE, CHAIRMAN
LAFOURCHE PARISH COUNCIL


CARLEEN B. BABIN, COUNCIL CLERK
LAFOURCHE PARISH COUNCIL

I, CARLEEN B. BABIN, Council Clerk for the Lafourche Parish Council, do hereby certify that the foregoing is a true and correct copy of Resolution No. 10-192, adopted by the Assembled Council in Regular Session on June 22, 2010, at which meeting a quorum was present.

GIVEN UNDER MY OFFICIAL SIGNATURE AND SEAL OF OFFICE THIS 29TH DAY OF JUNE, 2010.


CARLEEN B. BABIN, COUNCIL CLERK
LAFOURCHE PARISH COUNCIL

The following resolution was offered by Councilman Rogers and seconded by Councilman Triche:

**RESOLUTION
Town of Lockport**

To adopt the Lafourche Hazard Mitigation Plan Update...

WHEREAS, on October 30, 2000, the President signed into law the Disaster Mitigation Act of 2000 (DMA 2000), and

WHEREAS, DMA 2000 amends the Robert T. Stafford Disaster Relief and Emergency Assistance Act by, among other things, adding a new section, 322—Mitigation Planning—which places new emphasis on local mitigation planning, and

WHEREAS, Section 322 requires local governments to develop and submit mitigation plans as a condition of receiving Hazard Mitigation Grant Program (HMGP) project grants, and

WHEREAS, an Interim Final Rule (the Rule) for implementing Section 322 was published in the Federal Register, 44 CFR Parts 201 and 206, on February 26, 2002, with requirements for Local Plans found in Part 201.6, and

WHEREAS, in Louisiana, the Governor's Office of Homeland Security and Emergency Preparedness (GOHSEP) local mitigation planning initiative is focused at the parish level, and

WHEREAS, when incorporated jurisdictions exist within the parishes, their governments are encouraged to participate in the Parish mitigation planning process, and

WHEREAS, the Town of Lockport participated in the preparation of the Lafourche Parish Hazard Mitigation Plan Update and supports the plan as it pertains to the Town of Lockport and the entire parish,

NOW THEREFORE, be it resolved by the Council of the Town of Lockport that the mayor and council does hereby adopt the overall Hazard Mitigation Plan Update dated June 2010.

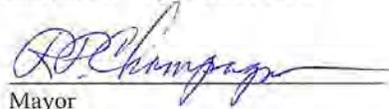
This resolution having been submitted to a vote, the vote thereon was as follows:

YEAS:	Councilmen Barker, Champagne, Hartman, Rogers, and Triche.
NAYS:	None.
ABSTAINING:	None.
ABSENT:	None.

And the resolution was declared adopted on this, the 15th day of June, 2010.



Town Clerk



Mayor

RESOLUTION NO. 1422

**A Written Resolution to Adopt
The Lafourche Hazard Mitigation
Plan Update.**

WHEREAS, on October 30, 2000, the President signed into law the Disaster Mitigation Act of 2000 (DMA 2000), and

WHEREAS, DMA 2000 amends the Robert T. Stafford Disaster Relief and Emergency Assistance Act by, among other things, adding a new section, 322—Mitigation Planning—which places new emphasis on local mitigation planning, and

WHEREAS, Section 322 requires local governments to develop and submit mitigation plans as a condition of receiving Hazard Mitigation Grant Program (HMGP) project grants, and

WHEREAS, an Interim Final Rule (the Rule) for implementing Section 322 was published in the Federal Register, 44 CFR Parts 201 and 206, on February 26, 2002, with requirements for Local Plans found in Part 201.6, and

WHEREAS, in Louisiana, the Governor's Office of Homeland Security and Emergency Preparedness (GOHSEP) local mitigation planning initiative is focused at the parish level, and

WHEREAS, when incorporated jurisdictions exist within the parishes, their governments are encouraged to participate in the Parish mitigation planning process, and

WHEREAS, the Town of Golden Meadow participated in the preparation of the Lafourche Parish Hazard Mitigation Plan Update and supports the plan as it pertains to the Town of Golden Meadow and the entire parish,

NOW THEREFORE, be it resolved by the Council of the Town of Golden Meadow that the Mayor and Council does hereby adopt the overall Hazard Mitigation Plan Update dated June 2010.

THUS DONE AND PASSED this Twenty-Fourth Day of June, 2010 by a motion presented by Councilman Mike Billiot and seconded by Councilman Jody Cherie.

Voting was as follows:

YEAS:

NAYS:

NONE:

Councilman David Adams
Councilman Mike Billiot
Councilman Frank Boura
Councilman Jody Cherie
Councilman Priscilla Mounic

None

None


MAYOR JOEY BOUZIGA

ATTESTED:

JAMIE LINER TOWN CLERK

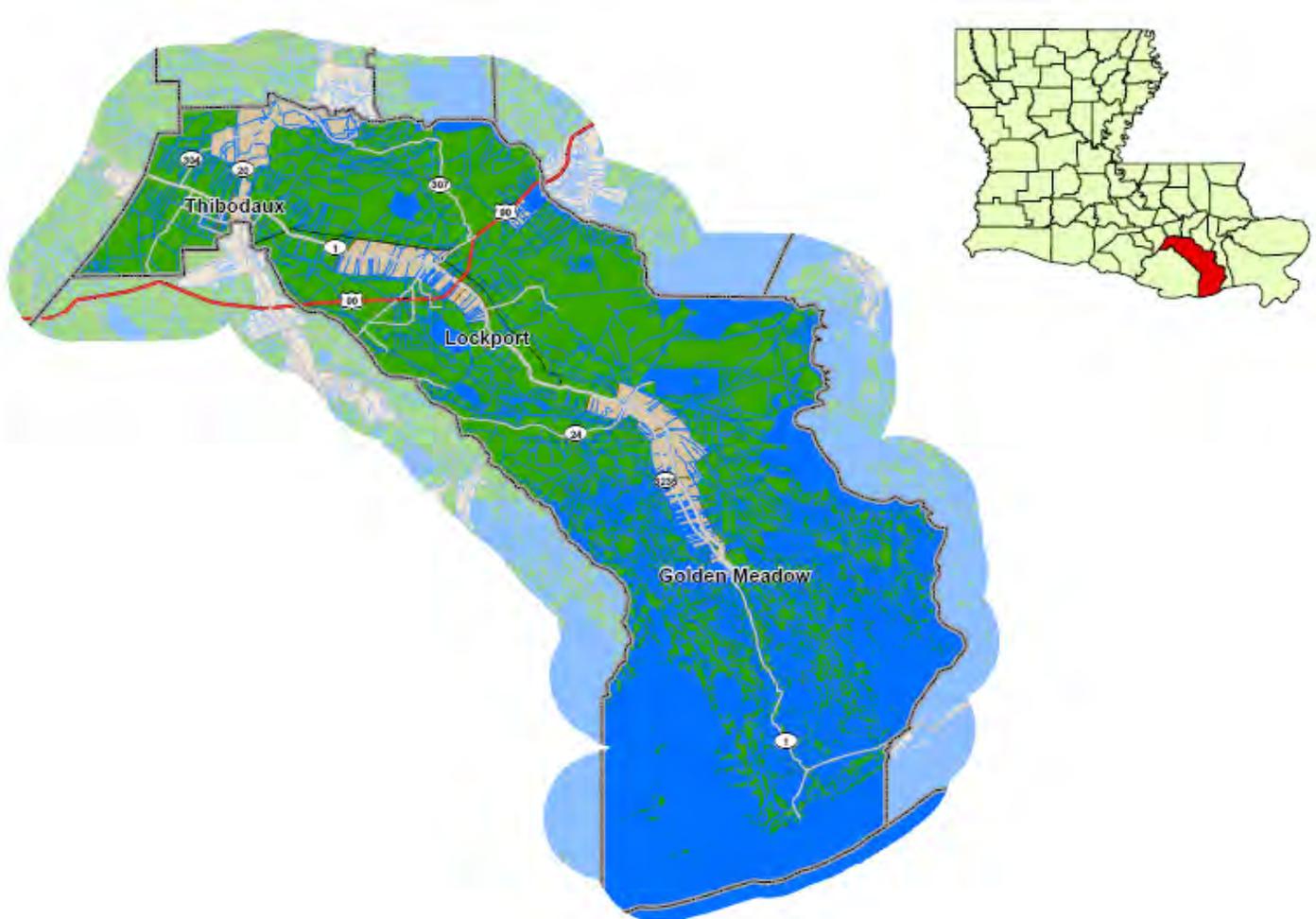
II. INTRODUCTION AND PARISH BACKGROUND

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The information presented below is intended to give the reader (reviewer) a synopsis of Lafourche Parish, Louisiana. With this background information, data provided herein may be more easily evaluated.

A. GEOGRAPHIC SETTING

Lafourche Parish, Louisiana, is situated along the Gulf coast in the eastern portion of the state's coastline. To the east are St. Charles and Jefferson Parishes, to the west Terrebonne Parish, and to the north Assumption, St. James, and St. John the Baptist Parishes. The map below shows the parish relative to its position in the state.



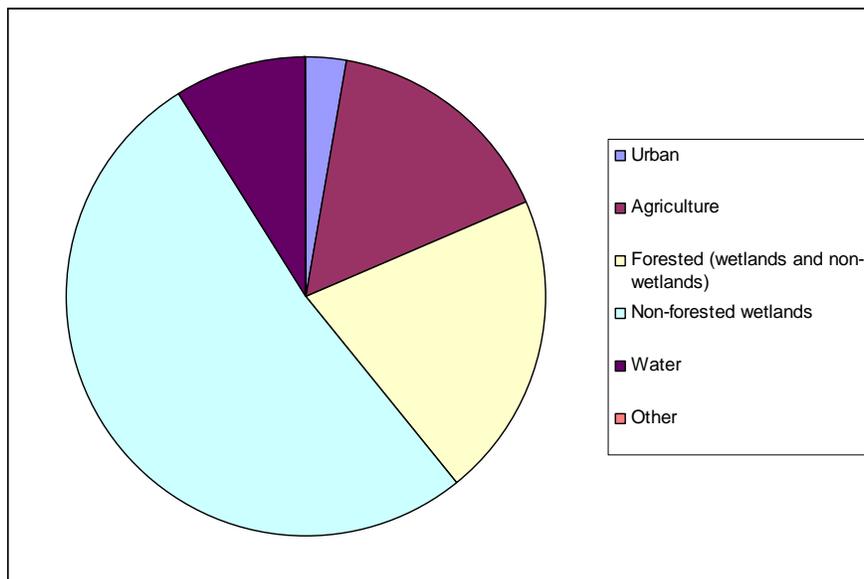
Noted in the image above are three municipalities which include, from north to south, Thibodaux, Lockport, and Golden Meadow. A levee system surrounds a portion of lower half of the parish including the communities of Larose, Cut Off, and Golden

Meadow protecting them from storm surge. Many of the stormwater drainage systems throughout the parish include pumping stations to remove stormwater. The layouts of all levees and pump stations in the parish are presented in the risk assessment section of this Hazard Mitigation Plan Update (HMPU).

As a snapshot of the community, the following land use table is provided. Based upon this data, 18% of the parish is urbanized and/or under cultivation. The remaining area of the 765,107-acre parish is wetlands, water, or other.

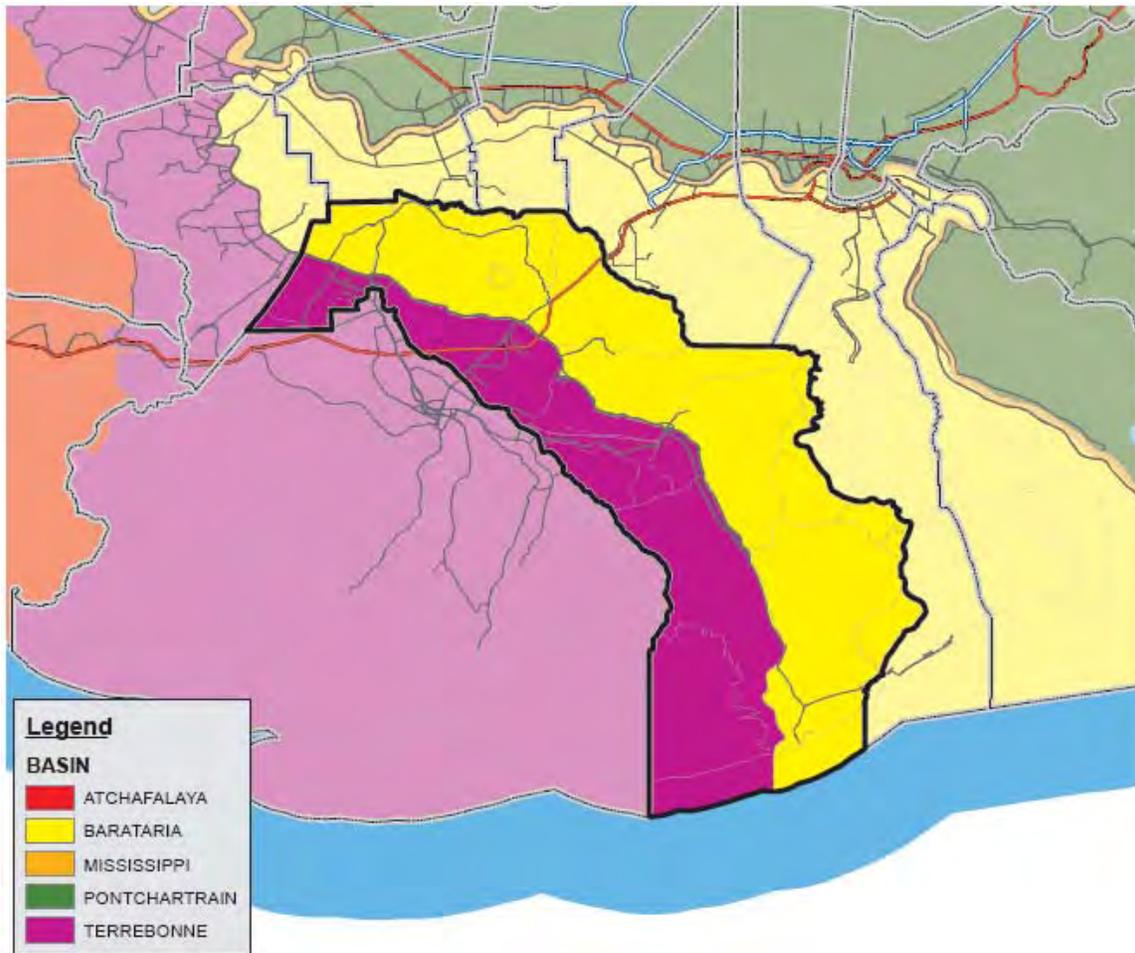
Description	Acres	%
Urban	20,915	2.7%
<i>Residential</i>	12,876	1.7%
<i>Commercial and Services</i>	2,141	0.3%
<i>Industrial</i>	574	0.1%
<i>Transportations, communications, and Transportation</i>	791	0.1%
<i>Mixed urban or built-up land</i>	522	0.1%
<i>Other urban or built-up land</i>	4,011	0.5%
Agriculture	121,350	15.9%
<i>Cropland and pasture</i>	121,350	15.9%
Forested (wetlands and non-wetlands)	156,699	20.5%
<i>Deciduous forest land</i>	1,673	0.2%
<i>Forested wetland</i>	155,026	20.3%
Non-forested wetlands	398,311	52.1%
Water	67,347	8.8%
Other	484	0.1%
TOTAL	765,107	100.0%

Land use data is based on information provided by Louisiana State University’s Atlas Website. The pie chart below provides a visual image of major land use/land cover in the parish.

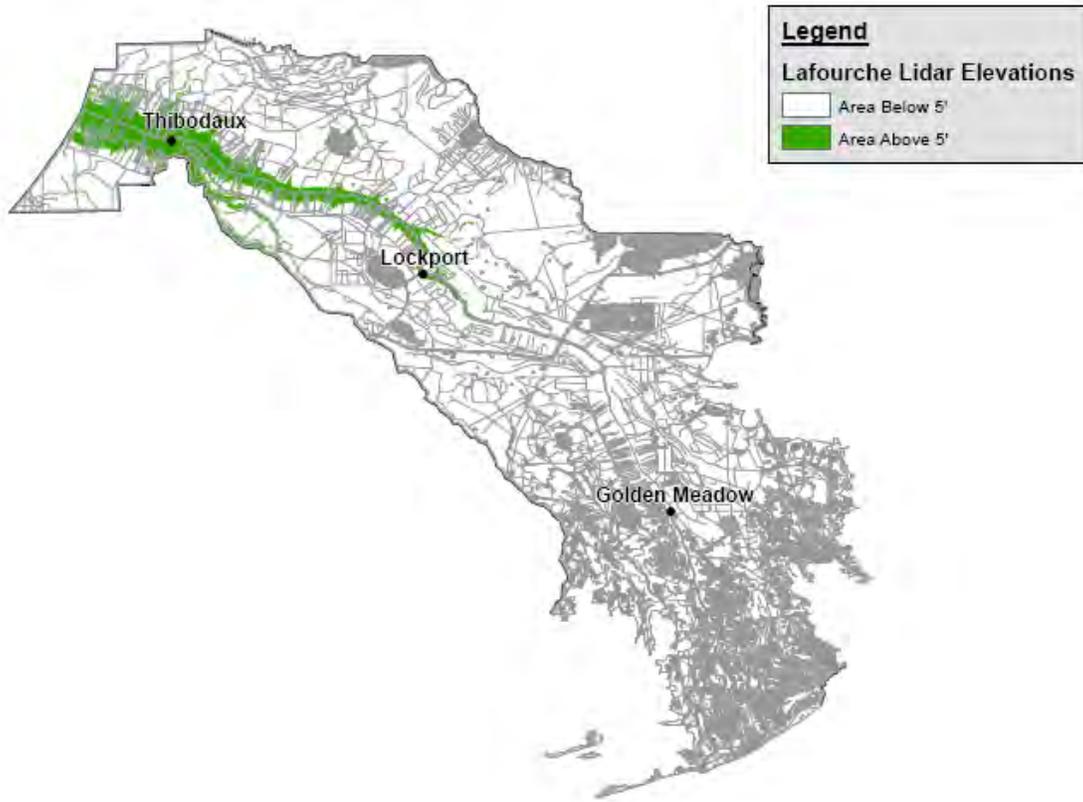


B. PHYSICAL PARAMETERS

Being a coastal parish along the Gulf of Mexico, the parish is bordered to the south by transitional bays of the Gulf of Mexico, i.e., Timbalier Bay and Caminada Bay. The parish is part of two major watersheds, or drainage basins. The area west of Bayou Lafourche is part of the Terrebonne watershed, and the area east of Bayou Lafourche is part of the Barataria watershed.



Bayou Lafourche traverses the parish from north to south. Geologically, the Bayou Lafourche ridge, the highest area of the parish, formed as the result of annual flooding cycles of the bayou when, centuries ago, the Mississippi River flowed in the Bayou Lafourche riverbed. It is upon this ridge that most urban and agriculture land exist in the parish. Because of the formation of this ridge through alluvial processes, the five-foot contour clearly defines the ridge as the “high-ground” of the parish. The depiction of this ridge form an image that is repeated in this report as almost all land areas other than the ridges are susceptible to flooding of some sort, either stormwater, riverine flooding, storm surge, or backwater flooding. With little exception, the graphic below depicts the ridges that form the bulk of non-flooding urban and agricultural land in the parish.



C. SOCIOECONOMIC FACTORS

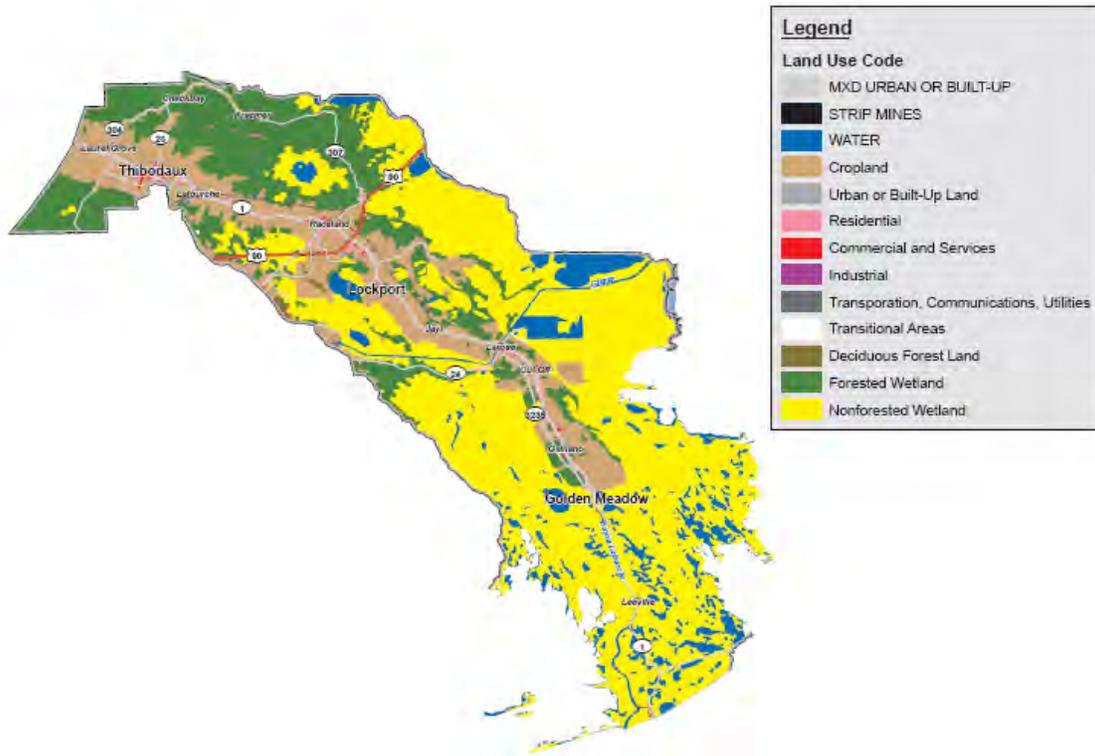
Based upon 2000 census data, the most prevalent industries in Lafourche Parish are educational, health, and social services, retail trade, and manufacturing, which compose almost 50% of the labor force. The following table offers a breakdown of the overall economy based upon employment.

Employment by Industry	Number	%
Agriculture, forestry, fishing and hunting, and mining	3,066	8%
Construction	2,970	8%
Manufacturing	4,928	13%
Wholesale trade	1,295	3%
Retail trade	5,193	14%
Transportation and warehousing, and utilities	2,737	7%
Information	577	2%
Finance, insurance, real estate, and rental and leasing	1,661	4%
Professional, scientific, management, administrative, and waste management services	1,725	5%
Educational, health and social services	7,841	21%
Arts, entertainment, recreation, accommodation and food services	2,012	5%
Other services (except public administration)	1,764	5%
Public administration	1,438	4%
Total	37,207	100%

The population of the parish in 2000 was 89,974. The U.S. Census Bureau estimates that the parish’s 2006 population was 93,554, which represents an almost 4% increase from 2000.

The population is distributed such that the heaviest concentration of people and most urbanized areas are along the center ridge of Bayou Lafourche, more specifically surrounding the city of Thibodaux, and the towns of Lockport and Golden Meadow. The map below shows existing land use as it relates to the community’s geography and socioeconomic setting.

II. Introduction and Parish Background



III. §201.6 (b) THE PLANNING PROCESS

III. §201.6 (b) THE PLANNING PROCESS

§201.6 (b) Planning Process—An open public involvement process is essential to the development of an effective plan. To develop a more comprehensive approach to reducing the effects of natural disasters, the planning process shall include the following:

A. §201.6 (b)(1) An opportunity for the public to comment on the plan during the drafting stage and prior to plan approval;

Several methods were incorporated into the planning process to allow and to encourage public comment on the plan during the drafting stage and prior to plan approval. For example, public notices were published to notify interested citizenry of the plan review and to obtain citizen input. Details of all public meetings of the HMPU committee are presented in the attachment portion of Section IV [201.6 (c)(1)] which follows in the next Section.

B. §201.6 (b)(2) An opportunity for neighboring communities, local and regional agencies involved in hazard mitigation activities, and agencies that have the authority to regulate development, as well as businesses, academia and other private and non-profit interests to be involved in the planning process;

Local and regional agencies were directly involved in the planning process by way of their participation on the HMPU committee. These parties included the parish planning and zoning director, the mayors of the municipalities, and key operations personnel from various departments of the municipalities and the parish. Private and non-profit interests were also involved in the process as were business interests by way of committee participation. A list of HMPU committee members is provided as attachment c1-1 in the attachments portion of Section IV.

C. §201.6 (b)(3) Review and incorporation, if appropriate, of existing plans, studies, reports, and technical information.

Existing plans, studies, and technical information were incorporated in the planning process. Examples include flood data from FEMA, the U. S. Army Corps of Engineers, and the U. S. Geological Survey. Much of this data was incorporated into the risk assessment component of the plan relative to plotting historical events and the magnitude of damages that occurred.

Additionally, the following plans and project lists were incorporated into the HMPU:

- Coastal Wetlands Planning Protection and Restoration Act Project List
- Louisiana Coastal Impact Assistance Plan
- Louisiana Comprehensive Master Plan for a Sustainable Coast (2007)
- Lafourche Parish Long Term Recovery Plan (ESF-14) (2007)
- Lafourche Parish Hazard Mitigation Plan (2006)
- Lafourche Parish Pump Stations Improvement Project List
- Lafourche Parish Public Works Department Project List

IV. §201.6 (c) PLAN CONTENT

IV. §201.6 (c) PLAN CONTENT

A. §201.6 (c)(1) Documentation of the planning process used to develop the plan including (a) how it was prepared, (b) who was involved in the process, and (c) how the public was involved.

(a) How it was prepared...

Lafourche Parish has developed this update to its parishwide Hazard Mitigation Plan (2006) which included the three incorporated communities in the parish, and the entirety of the unincorporated area. As noted previously, the municipalities are Thibodaux, Lockport, and Golden Meadow. Both Thibodaux and the United Houma Nation did participate in the planning process during the development of this HMPU, however, both entities received their own planning grants to produce single jurisdictional HMPs separate from this Lafourche Parish HMPU.

A Hazard Mitigation Plan Update Committee was created to assist in the planning process. The structure of that committee is detailed in the following section (b). The planning process used is a combination of the procedure spelled out in CFR §201.6, workshop manuals, and how-to guidelines. These guidelines, which were presented to the committee in a series of open to the public meetings, are followed throughout the plan update process. Goals of the HMPU committee included incorporating new data, especially that from Hurricanes Rita and Katrina, updating risk and vulnerability assessments, and updating mitigation goals and action items.

(b) Who was involved in the process...

A hazard mitigation planning team, referred to as HMPU Committee throughout this plan, was formed and consisted of representatives from throughout the parish. Members were selected from each of the drainage districts, water and sewer districts, the Lafourche Parish Council, the Lafourche Parish Government administration, police and fire departments, the parish and municipal public works departments, and the mayors from each municipality. Additionally, non-profits, representatives of the business community, economic development agencies, and consulting engineers were included. (See Attachment c1-1, page 1, for a list noting the makeup of the HMPU Committee). Parish elected officials and municipal elected officials also served on the planning committee and attended project planning meetings.

During the initial phases of the planning process, the HMPU committee served as the community's link to the planning process. Because of the broad range of expertise and geographic distribution, the task force provided an open and public forum for input, feedback, and plan review. Each municipality contributed to each section of the HMPU. Many of the committee members, especially those representing drainage districts, reported back to their respective boards about the HMPU planning process allowing for broader public input.

The HMPU Steering Committee formed on the outset of the planning process includes the following members:

- Charlotte Randolph, Parish President
- Jerry Jones, Council Chairman
- Charles Caillouet, Mayor of Thibodaux
- Joey Bouziga, Mayor of the Town of Golden Meadow
- Richard Champagne, Mayor of the Town of Lockport
- Darla Duet, Floodplain Manager
- Ronnie Robichaux, Director of Public Works
- Gretchen Caillouet, Grants and Economic Development Director
- Chris Boudreaux, OEP Director
- Windell Curole, Executive Director of South Lafourche Levee District
- Glenn Bourgeois, Area Supervisor Department of Public Works
- Gary Washington, Area Supervisor Department of Public Works
- Louis Broussard, Area Supervisor Department of Public Works
- Eric Benoit, Executive Assistant OEP
- Craig Webre, Sheriff
- John Davenport, Director of Plant Operations Our Lady of the Sea General Hospital
- Eric Degravelle, Director of Public Safety, Thibodaux Regional Medical Center
- Milton Bourgeois, Administrator St. Anne General Hospital
- Crystal Chiasson, Parish Administrator

The steering committee met between regular committee meetings to clarify data collected and to discuss other planning related issues.

(c) How the public was involved

The general citizenry was represented by the broad range of geographical diversification and the professional knowledge of the planning committee as well as by notification to the newspaper during the planning term. A public notice was published in the *Daily Comet*, the Parish’s official journal, prior to every HMPU Committee Meeting.

Civic Group Presentations were made to various groups around the parish, including the Kiwanis Club of South Lafourche, the United Houma Nation, and the Lafourche Parish Planning Commission. Presentations to these groups included a general project overview, inventory and risk assessment map results, and eligible mitigation project ideas. Civic group presentations furthered the public outreach process during the plan update process. At each presentation, future attendance at committee meetings and input was encouraged.

Undoubtedly, the most important element of the public planning process was the HMPU committee meetings. The meetings were open to the public and occurred four times over a year and a half timeframe. Summaries of the meetings are presented below. A summary of the attendees is presented as Attachment c1-2 on pages 3 and 4.

MEETING No. 1—July 29, 2008

A kick-off meeting was held in the Town of Lockport Council Meeting Room on July 29, 2008. A copy of the public notice, sign in sheet, meeting agenda, meeting

summary notes, and PowerPoint are presented as Attachments c1-4.1A-E (pages 6-23). Photos of the first meeting are presented on the following page. This meeting included a presentation which introduced the Hazard Mitigation Planning concept, an overview of the proposed local hazard mitigation planning process in Lafourche Parish, and a review of the former hazard mitigation plan. The committee also discussed the revised federal approach to hazard mitigation planning and the projected planning schedule.



During the risk assessment portion of the meeting, hazards were reviewed from the previous planning effort and confirmed. The most prevalent hazards to the community identified were hurricanes, flooding, levee failure, coastal erosion,

coastal/tropical storms, drought, extreme heat, land subsidence, windstorms, and saltwater intrusion. This list was used throughout the mitigation planning process for hazard profiling and mitigation measures. Details regarding the process of risk assessment are presented in section §201.6 (c)(2). A map committee was also formed to review the hazard event, risk assessment, and other parish maps between large committee meetings.

MAP COMMITTEE MEETING No. 1—October 23, 2008

The first map committee meeting was held in the old Wal-Mart building in Mathews on October 23, 2008. A copy of the sign in sheet is provided in Attachment c1-4.2 on page 24. All of the maps, including drainage districts, levees and pump stations, hurricane inundation areas, composite risk, and critical facilities, were presented for review. Edits were discussed and would be completed by the next map committee meeting for confirmation.

MAP COMMITTEE MEETING No. 2—November 5, 2008

The second map committee meeting was held in the old Wal-Mart building in Mathews on November 5, 2008. A copy of the sign in sheet is provided in Attachment c1-4.3 on page 25. Map edits discussed in the last map committee meeting were confirmed and were presented in the next full committee meeting for confirmation.

MEETING No. 2—December 16, 2008

A second meeting was held in the Town of Lockport Council Meeting Room on December 16, 2008. A copy of the public notice, sign in sheet, meeting agenda, meeting notes, and PowerPoint are provided in Attachments c1-4.4A-E, respectively (pages 26-44). Since the first meeting, data had been collected relative to major hurricanes and flood events that impacted the parish. Data was obtained from the USGS and U. S. Army Corps of Engineers internet sites, HAZUS, and FEMA DFIRMs. The compiled maps were presented to and reviewed by the HMPU Committee. These maps included base maps, drainage and sewer district maps, levees and pump stations, ABFEs, and critical hazard event profile maps. The maps presented are displayed in the risk assessment portion of this plan (Part c2). All risk assessment data and maps compiled since the beginning of the project was also presented to the committee. The main purpose of the meeting was to present the current risk assessment data and the process of collecting this data. The parish's hazard mitigation goals were reviewed and the addition of addressing repetitive loss structures was recommended.

STEERING COMMITTEE MEETING No. 1—February 5, 2009

A steering committee meeting was held on October 9, 2008 at the Parish Lockport Council Meeting Room. The sign in sheet and handouts are presented in this section as Attachments c1-4.5 (page 45). The purpose of the meeting was to expand the hazard mitigation project list to include eligible projects from each municipality as well as the unincorporated area.

MEETING No. 3—March 3, 2009

A third committee meeting was held in the Town of Lockport Council Meeting Room on February 5, 2009. A copy of the public notice, sign in sheet, meeting notes, and handouts are presented as Attachments c1-4.6A-E (pages 46-54). The purpose of this meeting was to review the preliminary project list, discuss eligibility, and prioritize the eligible projects using the STAPLEE Method and the highest local priority broken out by municipality and parish projects. The preliminary project list was reviewed and additional projects were added. The eligibility of all projects was discussed. Prioritization of the parish projects was deferred to the Parish President and Director of Public Works at a later date, along with committee input, however, prioritization of the municipal projects was completed. The City of Thibodaux received its own pilot planning grant, so they will scope projects separately from the Parish’s funding. It was decided that one project from Golden Meadow, one from Lockport, and four from the parish (unincorporated area) would be scoped in the project scoping portion of the plan update. Photos of the meeting are presented below.



CIVIC GROUP PRESENTATION No. 1—April 9, 2009

The first civic group presentation was made to the South Lafourche Kiwanis Club on April 9, 2009. Topics discussed included the hazard mitigation planning process, types of eligible mitigation projects, and the purpose for updating the plan. Numerous maps were presented to the group for input. The sign in sheet for the presentation is presented as Attachment c1-4.7 on page 55.

CIVIC GROUP PRESENTATION No. 2—May 9, 2009

The second civic group presentation was made to the United Houma Nation on May 9, 2009. Topics discussed included the hazard mitigation planning process, types of eligible mitigation projects, and the purpose for updating the plan. Numerous maps were presented to the tribe for input. The agenda for the presentation is presented as Attachment c1-4.8 (page 56).

CIVIC GROUP PRESENTATION No. 3—May 28, 2009

The third civic group presentation was made to Lafourche Parish Planning Commission on May 28, 2009. Topics discussed included the hazard mitigation planning process, types of eligible mitigation projects, and the purpose for updating the plan. The agenda for the presentation is presented as Attachment c1-4.9 (page 57).

MEETING No. 4—June 9, 2010

A fourth meeting was held at the Lockport Town Hall on June 9, 2010. A copy of the proof of advertisement, sign-in sheet, and meeting notes are presented as Attachments c1-4.10A through c1-4.10C on pages 59-64. Topics discussed include a past meeting review, the draft scoping summary report, and the draft plan update.

B. §201.6 (c)(2) A risk assessment that provides factual basis for activities proposed in the strategy to reduce losses from identified hazards. Local risk assessments must provide sufficient information to enable the jurisdiction to identify and prioritize appropriate mitigation actions to reduce losses from identified hazards.

The Lafourche Parish Hazard Mitigation Plan Risk Assessment is outlined below. Attachments for this section are presented at the end of the section. The section is divided in components parts including §201.6 (c)(2)(i), §201.6 (c)(2)(ii), §201.6 (c)(2)(ii) (A), §201.6 (c)(2)(ii)(B), and §201.6 (c)(2)(ii)(C),

The risk assessment shall include the following:

1. §201.6 (c)(2)(i) A description of the type, location, and extent of all natural hazards that can affect the jurisdiction. The plan shall include information on previous occurrences of hazard events and on the probability of future hazards events.

A vast amount of readily available statistical and mapped data was used to define each of the hazard events presented in this section. Of significant importance was the

flood level indications provided by federal sources. This information provided the data used in defining and mapping vulnerable areas identified in Section §201.6 (c)(2)(ii).

IDENTIFY HAZARDS

A full range of potential hazards was extensively researched and assessed from sources such as historical newspaper accounts, internet websites, government officials, current DFIRMS, NOAA data, members of the Lafourche Parish HMPU Committee, USACE Gauge Data, and USGS Gauge Data. The table below is a summary of the NOAA recorded events, property and crop damage estimates, average events per year, and damage per event.

NOAA Climate Data--1958 to 2008						
Event Type	Number of Events	Property Damage (1)	Crop Damage (1)	Average Events/Year	Annual Probability	Damage/Event
Flood	31	\$31,751,460,000	\$0	0.62	62%	\$2,888,406,863
Coastal Flood	4	\$5,500,000	\$0	0.08	8%	\$1,375,000
Flood	2	\$2,500,000	\$0	0.04	4%	\$1,250,000
Flash Flood	10	\$705,000	\$0	0.2	20%	\$70,500
Urban/Small Stream Flood	4	\$40,000	\$0	0.08	8%	\$10,000
Storm Surge	11	\$31,742,715,000	\$0	0.22	22%	\$2,885,701,363
Cold/Freeze	3	\$0	\$70,000,000	0.06	6%	\$23,333,333
Wind	49	\$5,272,000	\$0	0.98	98%	\$426,665
High Wind	1	\$250,000	\$0	0.02	2%	\$250,000
Thunderstorm Wind	17	\$552,000	\$0	0.34	34%	\$32,471
Tornado	31	\$4,470,000	\$0	0.62	62%	\$144,194
Excessive Heat	0	\$0	\$0	0	0%	\$0
Drought	3	\$0	\$158,400,000	0.06	6%	\$52,800,000
Hail	21	\$1,000	\$0	0.42	42%	\$50
Hurricane/Tropical Storm	16	\$17,366,350,000	\$0	0.32	32%	\$1,085,396,875
Lightning	3	\$120,000	\$0	0.06	6%	\$40,000
Totals	126	\$49,123,203,000	\$228,400,000	2.5	250%	\$4,050,403,786

Note (1): Damages are reported for the entire affected area and are not necessarily limited to Lafourche Parish

During the hazard mitigation kick off meeting held on July 29, 2008, committee members reviewed hazards covered in the original hazard mitigation plan (2006) on FEMA Worksheet #1, "Identify Hazards." The group then reached consensus on the most prevalent hazards in the community.

Avalanche

There are no recorded avalanche events occurring in the parish.

Coastal Erosion

A significant area of the parish coastline is subject to erosion. The condition is serious enough to be considered prevalent and is considered a significant hazard in the parish. The probability of continued deterioration along this reach of the shoreline is high.

Dam Failure

There are three dams within Lafourche Parish. No recorded dam failure events have occurred in the parish. The

HMPU committee decided dam failure is not of the magnitude to be addressed as a prevalent hazard for the purposes of this plan.

Drought

Drought is not a concern in Lafourche Parish as depicted in the NOAA table above. Only 3 recorded events were noted in the last 50 years, and no anticipated drought related mitigation issues were noted in Lafourche Parish.

Earthquake

No recorded earthquake events occurred in the last 500 years in the parish and none are expected.

Expansive Soils

The HMPU committee felt that the soils issue in the parish is not of a magnitude to be addressed as a prevalent hazard for purposes of this plan.

Extreme Heat

The HMPU committee felt that the hazard is not of a magnitude to be addressed as a prevalent hazard for the purposes of this plan.

Flood

Flooding concerns are addressed as the major hazard issue in the parish, and, as such, are detailed throughout this HMPU. Additionally, with high river stages and as a result of storm surge, flooding occurs in areas far removed from the source of the primary event. Locally, the term “backwater flooding” identifies this phenomenon. The issue is of such concern that the committee chose to include the feature with the overall function of flooding in addition to riverine, stormwater, and storm surge.

Hail Storm

Although included in the last HMP, the committee concurred that hailstorms will not be of further consideration for the purposes of this plan because the damages incurred per event and frequency are not significant.

Hurricane/Coastal (Tropical) Storms

During the planning session, “coastal storm” was regarded as similar to hurricanes and therefore considered redundant. Both are prevalent hazards with similar impacts. For purposes of this report, both are considered regarding storm water and surge events with hurricanes being the more serious of the two.

Based upon historical events, coastal storms, referred to locally as tropical storms or tropical depressions, are often the cause of heavy rainfall events with less wind than hurricanes. The heaviest rainfall in recent history resulted from tropical depressions. While hurricanes often contribute heavy rain, it is the sustained wind damage that has caused the most damage to the region such as that which occurred with Hurricane Andrew. For these reasons, tropical storm data was incorporated into the planning process in combined analysis with historical hurricane evaluations.

Hurricane hazards are a primary concern regarding flooding from both stormwater events and storm surge. Wind damage is also of major concern. Stormwater issues and surge issues are addressed as flood concerns.

Land Subsidence

Land subsidence can be defined as the loss of surface elevation due to the loss of subsurface density. In the coastal region, it is a natural occurrence and is considered a primary concern in Lafourche Parish. The probability of continued subsidence in the parish is certain.

Landslide

No recorded landslide events have occurred in Lafourche Parish and will not be of further consideration for the purposes of this HMPU.

Levee Failure

Levee failure was discussed as a significant hazard. Maps of levees and pump stations as well as drainage districts are displayed in Attachments c2-2 and c2-3 (pages 60-61) at the end of this section.

Saltwater Intrusion

Saltwater intrusion occurs when salt water from the Gulf of Mexico flows inland to freshwater intakes, and/or freshwater or brackish marshes. Three different saltwater intrusion conditions which are of concern are as follows: intrusion into Bayou Lafourche, intrusion into marsh areas which affects the propagation of fish and wildlife, and intrusion into marshes with organic soils which adversely affects the plant communities and significantly increases the soil erosion. For this reason, the HMPU committee agreed that saltwater intrusion should be recognized as a hazard within this HMPU.

Severe Winter Storm

Because severe winter storms are so seldom in the coastal area, impacts were not considered prevalent nor applicable to this planning effort.

Thunderstorms/Lightning Not Applicable

Thunderstorms and lightning have occurred in the parish and will occur in the future. However, because events are so frequent and damages so minimal, the HMPU committee concluded that addressing mitigation measures related to these hazards should not be considered for the purposes of this HMPU.

Tornado

Tornadoes are a function of high winds. Mitigation actions to reduce damages from wind are being incorporated into the HMPU under the hurricane hazard. However, hurricane force winds and not tornado force winds are addressed.

Tsunami

Tsunami events have never been noted in Lafourche Parish and will not be of further consideration for the purposes of this HMPU.

Volcano

No volcanoes exist in Lafourche Parish and will not be of further consideration for the purposes of this HMPU.

Wildfire

No wildfire events of significance have been recorded in Lafourche Parish and will not be of further consideration for the purposes of this HMPU.

PREVALENT HAZARDS TO THE COMMUNITY

Although many of the hazards in the previous section occur in the parish, it was determined to focus attention and resources on the most prevalent hazards which include the following:

- (a) Coastal Erosion
- (b) Levee failure
- (c) Flooding
- (d) Hurricanes/Tropical/Coastal Storms
- (e) Land Subsidence
- (f) Saltwater Intrusion
- (g) Tornadoes

This list was compiled by HMPU committee members in meeting no. 1 and the former Hazard Mitigation Plan (2006). For analysis purposes, the impacts of the critical and prevalent hazards are summarized as follows:

- Coastal erosion resulting from storm surge and wave action
- Wind damage resulting from hurricanes, tropical storms, and tornadoes
- Flooding from riverine sources, stormwater, tropical storms, and hurricanes in the following forms:
 - a. riverine
 - b. stormwater (rain fall)
 - c. surge
 - d. back water flooding (as the result of river flooding and surge)
- Levee failure resulting from extreme flood events
- Land subsidence from the lack of sediment deposits due to manmade structures
- Saltwater intrusion resulting in negative impacts to wetlands and potable water

Because of the proximity of the parish along the Gulf coast, the entire planning region is highly prone to hurricanes and tropical/coastal storms. The parish has a history of damage linked to hurricanes and tropical storms that have occurred in the past. Nine major hurricane events traced back to 1965 have caused great damage to the parish. Major flood damage as a standalone hazard caused damage five additional times. Additionally, wind damage is of utmost concern. With Hurricane Andrew in 1992, for example, wind damage was the cause of a great portion of hurricane induced destruction. As such, hurricanes and the resultant wind and flooding damage were designated as a significant hazard to the community. More detailed examples are noted in Attachments c2-9 through c2-14 (pages 72-77).

The issue of flooding was discussed in detail and committee members determined that it is the most prevalent and the most frequent hazard to the parish. Five presidential flood declarations to date validate this hazard. The committee members felt that the issue of flooding should be the main focus during the mitigation planning process. They also determined that it should be listed into four sub-categories: riverine, backwater, storm water, and storm surge. By separating the types of flooding into these four categories, the parish was able to identify specific portions of the parish prone to each type of flooding or hazard event. This approach proved valid in defining both the varying causes of flooding hazards and in determining vulnerability.

2. §201.6 (c)(2)(ii) A description of the jurisdiction’s vulnerability to the hazards described in paragraph (c)(2)(i) of this section. This description shall include an overall summary of each hazard and its impact on the community.

A general description of specific events and their overall impact to the community is addressed in the following section. A detailed analysis of buildings, infrastructure, values, etc. follows in later sections (c)(2)(ii)(A and B).

HAZARD VULNERABILITY

A PROFILE of HAZARD EVENTS and HAZARD IMPACTS

As discussed in section §201.6 (c)(2)(i) above, coastal erosion, tropical/coastal storms, levee failure, flooding, hurricanes, land subsidence, and saltwater intrusion were identified as the prevalent hazards to Lafourche Parish. A wind map is presented as Attachment c2-15 (page 78). Each of the most significant hazard events was profiled and mapped. A base map was created with linked data (ArcView 9.2) collected from USGS topographic maps, Digital Orthophoto Quarter Quads, aerial photography, and state maps. The base map is displayed in Attachment c2-1 at the end of this section (page 59).

Flood data was collected from DFIRMs which were obtained from the internet FEMA Map Service Center at www.fema.gov. The flood map is displayed in Attachment c2-4 at the end of this section. Hurricane data was collected from historical newspaper documents, Louisiana State University Library archives, internet research with particular focus on USGS and Corps of Engineers monitoring sites, and historical data.

FLOODING

Storm water

Storm water excesses caused by large amounts of rainfall (also called heavy rain and flash flooding) in a short period of time occur frequently in this coastal parish. Minimal elevations combined with little slope in the topography and an extensive levee system mean that storm water cannot flow out of many areas of the parish and need to be pumped out. Generally, the most damaging storm water events were a function of a tropical storms and hurricanes. However, a storm water rain-only event that occurred on December 14, 2009, inundated the community of Alidore with up to four feet in some areas.

Storm surge

Storm surge caused by winds of hurricanes and tropical storms cause inundation of coastal floodplains through coastal river and drainage systems. In the case of storm surge, southerly winds and high tides rise over and through bayous, canals, and marshlands and over top levees. Lafourche Parish is vulnerable to this type of flooding due to its predominate marshland coast and its proximity to the Gulf of Mexico.

Backwater flooding

Backwater flooding is normally associated with riverine flooding and connotes minimal velocity. All low lying areas are at risk. A heavy rainfall event coupled with a swollen river, canal, or bayou and marsh hinders drainage outflow causing backwater flooding to the same areas susceptible to storm surge.

Riverine

Riverine flooding, by definition, is river based. Most of the riverine flooding problems occur when there is a high tide in the Gulf of Mexico and as a result Bayou Lafourche floods low lying areas.

The entire planning area of the parish is vulnerable to some sort of flood. According to NOAA, historical flood events are listed in the table below.

**Lafourche Parish Historical Flood Events
1965-Present**

Date	Type	Property Damage
4/12/1994	Flash Flood	\$5,000
5/29/1994	Flash Flood	\$50,000
10/3/1994	Coastal Flooding	\$0
5/8/1995	Flash Flood	\$0
7/29/1995	Coastal Flood	\$0
10/5/1996	Coastal Flooding	\$5,500,000
12/27/1996	Urban/sml Stream Fld	\$0
6/18/1997	Flash Flood	\$40,000
6/30/1997	Urban/sml Stream Fld	\$10,000
1/7/1998	Urban/sml Stream Fld	\$0
2/15/1998	Storm Surge	\$0
9/12/1998	Storm Surge	\$0
6/26/1999	Flash Flood	\$500,000
10/6/2000	Urban/sml Stream Fld	\$30,000
6/6/2001	Flood	\$1,500,000
6/10/2001	Flood	\$1,000,000
10/13/2001	Storm Surge	\$0
9/25/2002	Flash Flood	\$0
6/30/2003	Storm Surge	\$4,100,000
4/30/2004	Flash Flood	\$60,000
9/15/2004	Storm Surge	\$4,000,000
9/22/2004	Storm Surge	\$15,000
10/9/2004	Flash Flood	\$50,000
10/9/2004	Storm Surge	\$100,000
7/5/2005	Storm Surge	\$2,500,000
8/29/2005	Storm Surge	\$31,300,000,000
9/23/2005	Storm Surge	\$432,000,000
10/16/2006	Coastal Flood	\$0
12/21/2006	Flash Flood	\$0
10/22/2007	Flash Flood	\$0
8/3/2008	Storm Surge/tide	\$0
TOTAL		\$31,751,460,000

HURRICANE and COASTAL/TROPICAL STORM CRITICAL EVENTS

The entire geographic area of Lafourche Parish has been and will be affected by hurricanes and coastal/tropical storms. Numerous hurricanes and tropical storms have impacted the study area. A table summarizing these instances is noted in this section. Information includes dates, names, impact to the area, and dollar damage estimates. The most extreme examples of these hazard events to impact Lafourche Parish are presented in text following the table beginning in 1965 with Hurricane Betsy.

While much of the hazard impact of hurricanes is focused on flooding issues, wind is as much a concern to residents and property owners. While wind was not listed as a hazard in the how-to guide *per se*, it is a major impact of hurricane damage and is therefore addressed as a hazard impact.

Saffir-Simpson Hurricane Scale		
Category	Wind speed	Storm surge
	mph (km/h)	ft (m)
5	≥156 (≥250)	>18 (>5.5)
4	131–155 (210–249)	13–18 (4.0–5.5)
3	111–130 (178–209)	9–12 (2.7–3.7)
2	96–110 (154–177)	6–8 (1.8–2.4)
1	74–95 (119–153)	4–5 (1.2–1.5)
Additional classifications		
Tropical storm	39–73 (63–117)	0–3 (0–0.9)
Tropical depression	0–38 (0–62)	0 (0)

The **Saffir-Simpson Hurricane Scale** is a classification used for Western Hemisphere tropical cyclones that exceed the intensities of tropical depressions and tropical storms. Hurricanes are divided into five categories distinguished by the intensities of their sustained winds. In order to be classified as a hurricane, a tropical cyclone must have maximum sustained winds of at least 74 mph (33 m/s; 64 kt; 119 km/h). The highest classification in the scale, Category 5, is reserved for storms with winds exceeding 155 mph (69 m/s; 136 kt; 249 km/h). Wind speed is the determining factor in the scale, because storm surge values are highly dependent on the slope of the continental shelf and the shape of the coastline, in the landfall region. All winds are using the U.S. 1-minute average.

Classifications measure the potential damage and flooding a hurricane will cause upon landfall. The Saffir-Simpson Hurricane Scale is used solely to describe hurricanes forming in the Atlantic Ocean and northern Pacific Ocean east of the International Date Line. Other areas use different classification scales to label these storms, which are called "cyclones" or "typhoons", depending on the area. All levels of hurricanes as described on the Saffir-Simpson Hurricane Scale (Categories 1-5) may possibly hit the entire planning area in Lafourche Parish.

Lafourche Parish Presidentially Declared Storm Events (1965-Present)

Year	Disaster Recovery #	Storm Name	Impact	Damage (Billions)
1965	208	Hurricane Betsy	Hurricane	\$21.9
1973	374	Severe Storms and Flooding	Severe Storm and Flooding	N/A
1974	448	Hurricane Carmen	Hurricane	\$1.0
1977	3031	Drought and Freeze	Drought and Freeze	N/A
1980	616	Severe Storms and Flooding	Severe Storm and Flooding	N/A
1985	752	Hurricane Juan	Hurricane	\$4.1
1991	902	Severe Storms and Flooding	Severe Storm and Flooding	N/A
1991	904	Severe Storms, Flooding, and Tornado	Flooding	N/A
1992	956	Hurricane Andrew	Hurricane	\$56.0
1995	1049	Severe Storms and Flooding	Rain/Storm and Flooding	
1998	1246	Tropical Storm Frances and Hurricane George	Hurricane	\$4.5
2001	1380	Tropical Storm Allison	Tropical Storm	\$6.5
2002	1435	Tropical Storm Isidore	Tropical Storm	\$0.4
2002	1437	Hurricane Lili	Hurricane	\$1.1
2004	1548	Hurricane Ivan	Hurricane	\$15.5
2005	1601	Tropical Storm Cindy	Tropical Storm	\$0.3
2005	3212 & 1603	Hurricane Katrina	Hurricane and Emerg Dec	\$81.0
2005	3260 & 1607	Hurricane Rita	Hurricane and Emerg Dec	\$10.0

(1) Loss estimates for all affected areas, estimates in 2000 dollars

Source: Normalized Hurricane Damage in the United States: 1900-2005, R. Pielke, et. al.

Hurricane Betsy (1965)

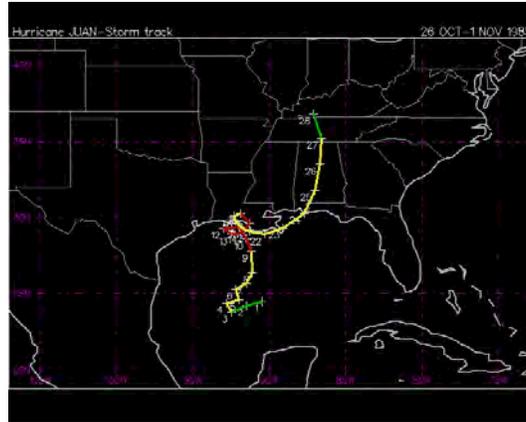
Hurricane Betsy made landfall near the mouth of the Mississippi River in Louisiana on September 9, 1965. The hurricane was a Category 3 storm with maximum winds of 140 miles per hour recorded in Terrebonne Parish. The event caused wind and water damage to area homes and businesses parishwide. In addition, the area's agricultural crops (sugarcane) suffered significant losses. One fatality was reported. The path of the storm is illustrated in the following graphic.



Hurricane Juan (1985)

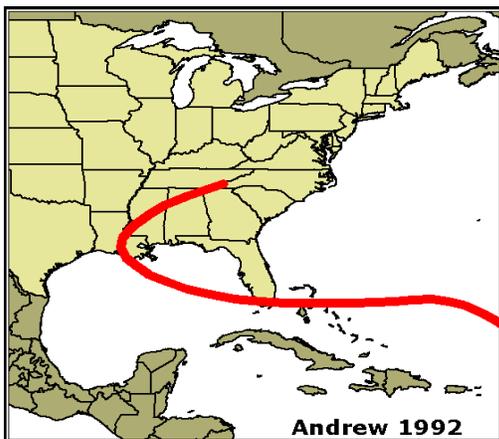
Hurricane Juan struck the Louisiana coast in the vicinity of Morgan City on October 29, 1985, as a Category 1 hurricane. The storm moved slowly along an erratic track allowing several passes over coastal Louisiana before moving eastward. Rainfall

totals for southern Louisiana ranged from 10 to 15 inches. Seven foot surge caused flooding within the levee systems causing approximately \$4.1 billion dollars in damage nationwide. A Hurricane Juan inundation map is shown in Attachment c2-9 (page 72) at the end of this section.



Hurricane Andrew (1992)

Hurricane Andrew came ashore August 26, 1992, as a Category 3 storm on a track that would guide it up the Atchafalaya River system. Damage caused by the storm was catastrophic with few structures in the parish spared of the storm's relentless winds. Storm surge was minimal as the storm followed the coast westward before turning north. However, a small area flooded within the levee protection of the South Lafourche Levee District. While the amount of storm water produced localized flooding, the wind remained the primary damaging factor. Pre-Katrina, Andrew was most often referred to as the most expensive storm in U. S. history with damage totals nearing \$55 billion. The coastal geography of the area only added to the potential for wind damage. A Hurricane Andrew inundation map is shown in Attachment c2-10 (page 73) at the end of this section.



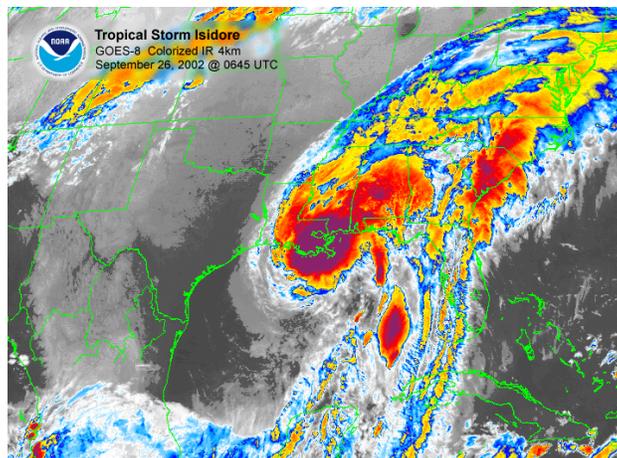
Tropical Storm Allison (2001)

Tropical Storm Allison made landfall near Freeport, Texas, and slowly drifted to the east leaving a severely drenched Texas and Louisiana in its path. Areas of southern Louisiana received as much as 20” of rain over three days. Allison will be remembered as the costliest tropical storm in U.S. history with 41 deaths and a \$6.5 billion price tag associated with the damage. A map of inundation for Tropical Storm Allison and illustrates the areas most vulnerable to flash flooding during heavy rainfall events and the area historically had not flooded during hazard events. A Tropical Storm Allison inundation map is shown in Attachment c2-11 (page 74) at the end of this section.



Tropical Storm Isidore (2002)

Tropical Storm Isidore made U.S. landfall at Grand Isle, Louisiana on September 26, 2002, with wind speeds of 65 mph. Offshore oil and gas platforms were shut down resulting in the loss of production of 14.4 million barrels of oil and 88.9 billion cubic feet of natural gas. Isidore claimed five lives in the U.S. A Tropical Storm Isidore inundation map is shown in Attachment c2-12 (page 75) at the end of this section.



Hurricane Cindy (2005)

Hurricane Cindy made landfall for the second time near Grand Isle, Louisiana, on July 5, 2005, as a Category 1 storm with sustained winds of 70 mph. The hurricane was

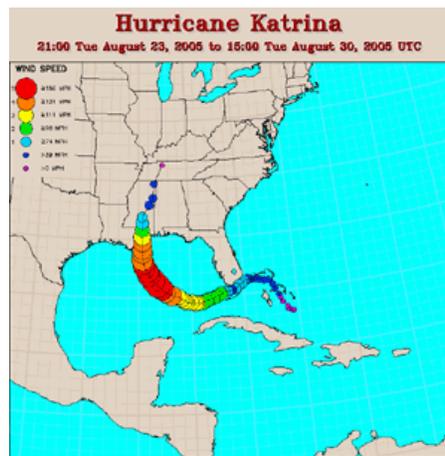
originally thought to be a tropical storm at peak strength but was upgraded to a Category 1 hurricane during post-storm analysis. Cindy was responsible for five deaths in the United States. Localized flooding due to rainfall and power outages were reported. The total damages were estimated to be \$320 million.



Source: NASA, 2005

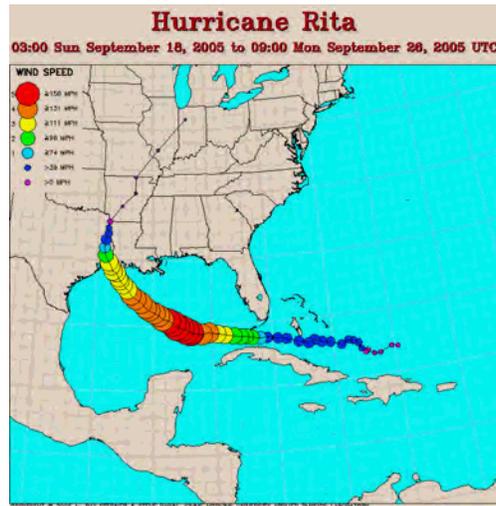
Hurricane Katrina (2005)

After crossing southern Florida, Hurricane Katrina made landfall for the second time at Grand Isle, Louisiana, on August 29, 2005, with winds speeds at 125 mph as a Category 4. As the picture below shows, Katrina was on a track along the southeastern Louisiana-Mississippi border. Flood damage in Lafourche Parish was widespread in the areas outside of levee protection. According to the U.S. Department of Housing and Urban Development, 63% of homes in Louisiana were damaged or destroyed by wind. Hurricane Katrina was the most damaging natural disaster in U.S. history with approximately \$81 billion dollars worth of damage. The Katrina inundation map is presented as Attachment c2-13 (page 76).



Hurricane Rita (2005)

Hurricane Rita made landfall on September 24, 2005, in Cameron Parish, Louisiana, as a Category 3 storm with sustained winds of 120 mph. As graphically depicted below, Rita followed a path along the western Louisiana-Texas border. Flood damage in Lafourche Parish was concentrated south of U.S. Hwy 90 in areas outside of levee protection. Hurricane Rita caused \$10 billion in damage. Few deaths or injuries have been reported. The Rita inundation map is presented as Attachment c2-14 (page 77).



Source: NCDC, 2006

Hurricanes Gustav and Ike (2008)

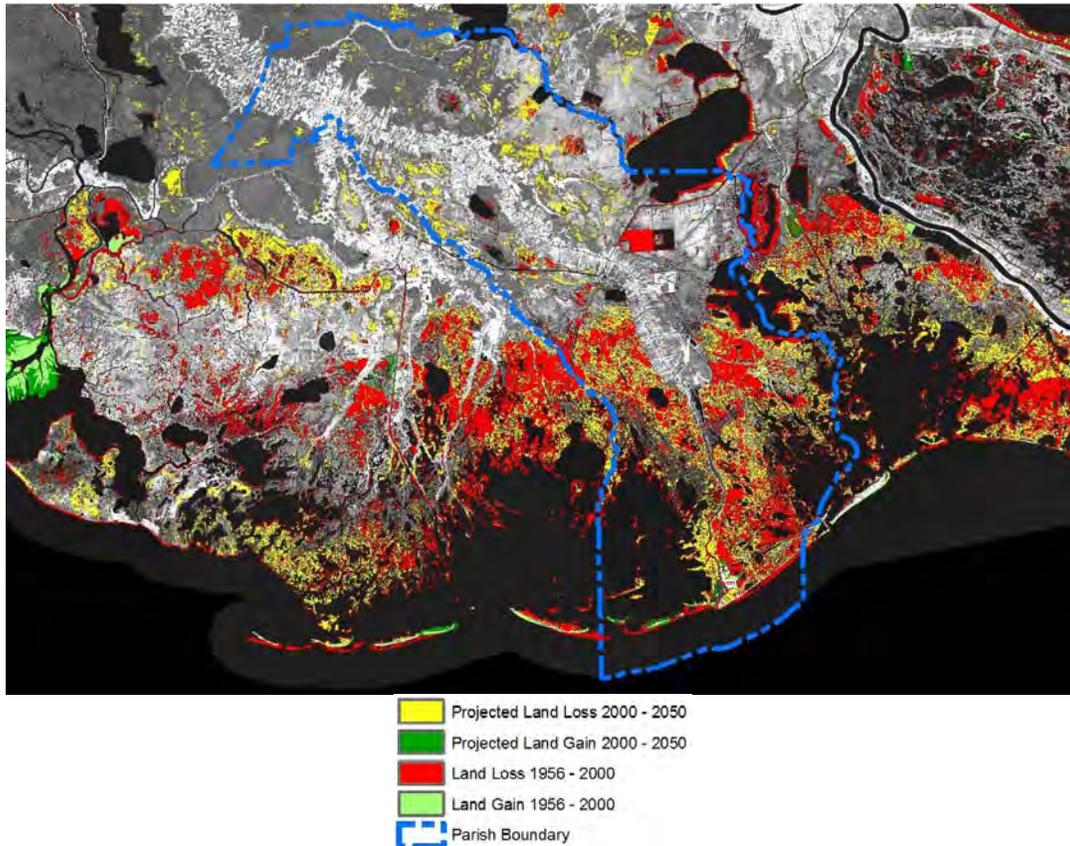
Hurricane Gustav made landfall on September 1, 2008, in Cocodrie, Louisiana, as a Category 2 storm. Gustav caused \$4.3 billion in damage in the U.S. and 153 deaths were reported in both the Caribbean and U.S. Hurricane Ike made landfall on September 13, 2008 in Galveston, Texas, as a Category 2 storm with sustained winds of 120 mph. Ike caused \$24 billion in damage and killed 112 people and over 300 are still missing in the U.S. The sequence of both storms occurring within two weeks of each other caused additional damages in south Louisiana due to the high water from Gustav not having a chance to recede before Ike hit, thereby increasing the still water elevation at the time of Ike's landfall.

One of the most negative aspects in Lafourche Parish in the aftermath of the hurricanes was the impact the damages had on the potable water supply. Water District No. 1 issued a boil advisory following Gustav and continued to monitor the water quality following the storms as both water intakes. Additional water intakes may need to be planned to ensure the stagnant water issue does not continue to be detrimental following another hurricane event, as presented in Section V.

COASTAL EROSION

Erosion is a widespread problem along the coast of Louisiana. The entire coastline and the southern marshes of Lafourche Parish are subject to erosion both from constant wave action and storm surge. Evidence of the extent of coastal erosion is illustrated in the following graphic of Lafourche Parish provided by LSU's Coastal Louisiana Ecosystem Assessment and Restoration (CLEAR).

Land Loss and Land Gain in Lafourche Parish – 1956-2050



As illustrated, more areas in Lafourche Parish are losing (yellow and red) land than those gaining (dark and light green). If no actions are taken to stop coastal erosion in the parish, not only will the coastline continue to disappear, but the secondary effects of salt water intrusion and storm surge will continue to affect increasingly northern reaches of the parish thereby exacerbating the flooding potential. The probability of the coastline continuing to erode over time is 100%. Lafourche loses approximately 1,500 acres per year based on the map above. As there are no structures/infrastructure located in the erosion risk zones, loss estimates for coastal erosion are not able to be completed for the purposes of this plan. The most devastating impact of coastal erosion is the deterioration of the red areas of the coastline and marsh depicted in the map above. As the shoreline land decreases, the storm surge is able to reach more northern areas of the parish, resulting in additional hurricane losses. One can estimate with every 50 years of land loss

(less than 5% loss in fifty years), the hurricane damages would also increase 5%, resulting in additional losses of \$196,110,600 in fifty years time.

As previously mentioned, data relative to coastal restoration and marsh creation projects in Lafourche Parish is noted on the project list presented as Attachment c3-1 on pages 109-111. From this data, it is evident that mitigation issues are being addressed under other programs, yet should still be identified in the HMPU because of the magnitude of the hazard's effects.

LEVEE FAILURE (includes floodwalls) and PUMP STATIONS

The failure of a levee or floodwall during any type of high water event would prove catastrophic to the parish, the magnitude of which would be dependent on the location of the break. Probability of at least the overtopping of a levee is certain and in the event of a complete levee breach, over 80% of the parish would be inundated. Hurricane Juan's 7 foot storm surge overtopped and broke the levees, validating that a larger hurricane protection levee system was needed. Levees were also overtopped on December 14, 2009 during a heavy rain event that flooded areas of Thibodaux and Chackbay. A map depicting all public levees and pump stations was presented previously as Attachment c2-3 on page 61. Most levees protecting urban areas were constructed by the U. S. Army Corps of Engineers. These levees are maintained by the parish government and/or levee districts and inspected annually by district and federal officials. Three levee districts in the parish have jurisdiction over different geographical areas in Lafourche Parish and are described as follows:

- Lafourche Basin Levee District – Regional, multi-parish, maintains 63 miles of levees from the city of Donaldsonville to Jefferson Parish (North Lafourche Levee District has a cooperative agreement with the Lafourche Basin Levee district but the Lafourche Basin Levee District no longer has direct jurisdiction in any levee in the parish).
- North Lafourche Levee District – Maintains all levees north of the Intracoastal ranging in elevation from 4 to 7.5 feet
- South Lafourche Levee District – Maintains all levees from Larose to south of Golden Meadow ranging in elevation from 9 to 13 feet

Pump stations are also a major consideration as pumps are required to remove stormwater that falls between the levees. A pump station inventory is noted to follow.

Pump Station Inventory

Name	Ownership	Name	Ownership
1 of 12	Parish	Lower Bayou Blue-Hwy 656	Parish
2 of 12	Parish	Martinez	Parish
3 of 12	Parish	McCloud	Parish
3 of 12	Parish	Mike's	Parish
Airport District #1	Parish	Mobley	Parish
Alidore	Parish	Morvant	Parish
Banan's Camp	Parish	Natural Gas	Parish
Barrios	Parish	New Valentine	Parish
Bayou Blue By-Pass	Parish	Nora	Parish
Bayou Boeuf School	Parish	Old Ludevine	Parish
Bobcat	Parish	Old Valentine	Parish
Butch Hill	Parish	P.S.#1(SLDD)	SLLD
Chackbay 101	Parish	P.S.#2(SLDD)	SLLD
Choctaw Vol. Fire Station	Parish	P.S.#4(SLLD)	SLLD
Coastal	Parish	P.S.#6(SLDD)	SLLD
Cyprien	Parish	P.S.#7(SLLD)	SLLD
Delta Farm	Parish	P.S.#8(SLDD)	SLLD
Des Allemands	Parish	Parr	Parish
Edgar Guidry	Parish	Peltier Pump	Parish
Edna	Parish	Percy Guidry	Parish
Eymard	Parish	Pointe Au Saucisse	Parish
Fantastic Acres	Parish	Pointe Aux Chenes	Parish
Farmer's Lane	Parish	Ravenwood	Parish
Four Point Dr.	Parish	Rink	Parish
Gautreaux	Parish	Rita	Parish
Golden Meadow P.S.	Parish	Rodrigue #8	Parish
Home Place	Parish	Rond Pom Pon	Parish
Jesse Dufrene	Parish	Serigny	Parish
L. Rodrigue #7	Parish	Tauzin	Parish
La Butte	Parish	T-Bois	Parish
LA Hwy 24	Parish	T-Bois/Eunice Allemand	Parish
Larose	Parish	Thoroughbred / Supercharge	Parish
Larose Fire Station	Parish	Timberland	Parish
Larousse	Parish	Twin Oaks	Parish
Lefort	Parish	Water Tower	Parish
Legendre	Parish	West Camelia	Parish
Leighton	Parish	Yankee Canal Rd	Parish
Little Al's	Parish	Zeller	Parish

As a general rule, capital improvements and maintenance of pump stations is a function of the parish department of public works, the levee district, or the private owners. Levee construction is a function of the Corps while levee maintenance is the responsibility of the parish government and the levee district. In the case of the Lafourche Basin levee system, maintenance responsibility is facilitated through the Lafourche Basin Levee Board which has a regional, multi-parish jurisdiction.

Levee failure is a major concern to the parish as depicted in maps presented as Attachments c2-18.1 through c2-18.1C (pages 84-87). The probability of any levee failing in any given year is under 1%. Potential inundation depths range from 1-11 feet, the most extreme levels being in the most southern areas of the parish. The extent of levee failure as portrayed in the aforementioned maps is as follows:

- Parishwide – Levee failure inundates all areas south of Larose including the communities of Cut Off, Galliano, Leeville, and the municipality of Golden Meadow. All other areas of the parish are inundated that are not located on the Bayou Lafourche Ridge.
- Thibodaux – Small areas of the south western and northern end of the city limits are inundated

- Lockport – A small areas in both the central and southern portions of the town are inundated
- Golden Meadow – Approximately 90% of the town is inundated. Areas closest to the Bayou Lafourche ridge are the least vulnerable.

LAND SUBSIDENCE

Land subsidence in Lafourche Parish can be defined as the loss of surface elevation due to the loss of subsurface density. Subsidence in the developed areas of Lafourche Parish has been measured to be an average of 1 foot of loss of elevation every 100 years and the probability of continued subsidence is 100%. It is assumed that subsidence has always occurred in Lafourche, but because seasonal flooding and the sediment associated with it has been limited by water control structures, the natural balance has been adversely affected by man made structures. Subsidence is caused by a diverse set of human activities and natural processes. Those two causes are profiled below.

Natural Causes

Collapse of surface materials into underground voids is the most dramatic form of subsidence. In Lafourche Parish, it is presumed that the removal of oil and gas deposits have caused most of the subsidence-related voids in this area. The area most affected by this process has been the wetland west of Bayou Lafourche, from Larose to Leeville. In the early part of the 20th century, this area was found to be rich in oil and gas, and significant amounts of these resources were removed from the wetland.

In addition, tides and heavy storms in the Gulf are eroding Louisiana's marshy coastline at an alarming rate. Coastlines in southern Lafourche Parish are sinking or eroding away with incoming water eating at the marshes and wetlands that buffer and drain the higher drier land. This can be seen around the mouth of the Houma Navigation Canal. Parts of Louisiana's coastal evacuation routes are indeed vulnerable to storm flooding.

Land Subsidence has been measured and is a hazard throughout all areas of the Parish. Subsidence has been more extreme in the southern portion of Lafourche, south of the Intracoastal Canal. The areas above the Intracoastal Canal have measured subsidence levels which are less extreme than the southern part of the Parish.

Man-made Causes

Two related factors contributing to subsidence in Lafourche Parish have been the disconnection of Bayou Lafourche to the Mississippi River and the introduction of levee systems. The construction of levee systems with forced

drainage, has eliminated natural river sediment functions from occurring. These forced drainage areas have essentially dried out and compacted at a higher rate than surrounding areas, causing extreme subsidence within the levee system. These risks are most prominent in the Southern region of Lafourche Parish, south of the Intracoastal Canal (including Golden Meadow), but areas to the north have been affected, to a lesser extent. Maximum rates measured by geodetic surveys are approximately 0.5 inches per year.

All states with low-lying coasts are vulnerable to accelerated sea-level rise, but Louisiana's coast is much more so because of the subsidence of the Mississippi River delta. Until humans intervened, the surface elevation of the broad delta complex had kept pace with rising sea level for several thousand years, largely because the river built delta lobes and nourished wetland vegetation. The rates of natural subsidence and sea-level rise along the Louisiana coast have been exacerbated by human modifications, primarily levees which have isolated the Mississippi River from a delta complex that depends on an annual flooding cycle. These modifications cut off the delta-building process of the river. Louisiana's coastal system has also been heavily impacted by channels dug for navigation and mineral extraction, which have allowed high-salinity Gulf waters to migrate inland. Over a million acres of coastal land have been lost since the 1930s, and between 25 and 35 square miles continue to be lost each year. Louisiana's coastal ecosystems are threatened with systemic collapse.

Areas of Lafourche Parish, as described above, face a High risk of continued subsidence in years to come. Lafourche Parish is highly vulnerable to continued subsidence due to its close proximity to the surrounding wetlands, highly organic soils, and dependence on forced drainage systems which remove water from localized areas.

SALTWATER INTRUSION

Saltwater intrusion is not a typical hazard in that it is a gradual process and not a sudden occurrence and is unlikely to ever trigger a federal disaster declaration. Nevertheless, it is a serious problem that poses a major threat to private property and to the way of life. At this time, saltwater intrusion primarily affects the communities of Leeville, Golden Meadow, Galliano, Cut Off, Larose, and Valentine, but has historically affected as far north as the intake in Lockport. In these communities, Bayou Lafourche and the surrounding marshland has experienced a change in salinity levels that is thought to contribute to the loss of wetland vegetation.

Saltwater intrusion refers to the movement of salty water into freshwater aquifers or to the encroachment of saline water into freshwater estuaries. However, saline ground water can occur naturally in inland aquifers as well as in coastal areas, and has similar implications upon ground water use. Saltwater intrusion has been a major ground water resource problem in coastal environments for decades. The processes involved in these intrusions can result from natural phenomena or human-influenced activities, particularly dredging, and may assume a variety of specific forms.

Under natural conditions, the seaward movement of freshwater prevents saltwater from encroaching coastal aquifers, and the interface between freshwater and saltwater is maintained near the coast or far below land surface. This interface is actually a diffuse zone in which freshwater and saltwater mix, and is referred to as the zone of dispersion (or transition zone). Ground-water pumping can reduce freshwater flow toward coastal discharge areas and cause saltwater to be drawn toward the freshwater zones of the aquifer. Saltwater intrusion decreases freshwater storage in the aquifers, and, in extreme cases, can result in the abandonment of supply wells. Saltwater intrusion occurs by many mechanisms, including lateral encroachment from coastal waters and vertical upconing near discharging wells.

Saltwater intrusion occurs in the coastal areas of Louisiana. This intrusion is into streams discharging into the Gulf as well as into marsh areas and subsequently into freshwater streams. Louisiana's coastal surface intrusion occurs as the result of upstream movement of coastal saltwater in the gulf bays and estuaries into fresh or slightly saline streams, rivers, creeks, drainage ditches, and marsh areas in the coastal zone. Man-made canals can greatly increase salt water movement into fresher areas. Small amounts of saltwater may advance upstream of saltwater barriers during navigation periods.

Louisiana's 3.2 million acres of coastal marshlands are some of the most productive soil, water, and plant resources existing in the nation. However, it also has the highest resource degradation rate of any area in the nation. Saltwater intrusion is one of the major causes of marshlands loss. Intrusion of saltwater causes the loss of fresh and intermediate vegetation, which results in rapid erosion of marsh soils and the ultimate conversion to open water. The degree of mixing between freshwater and saltwater will depend in such things as freshwater discharge, tidal magnitudes, and stream-estuary geometry.

The concern about saltwater intrusion arises from the environmental damage or water use impairment that may result because of the presence of salts in ground or surface waters. Excessive salt concentrations can render water unfit for consumption by humans and animals as well as impair the growth of plants. Agricultural and industrial uses of water can also be impaired by high salinity levels. However, what is considered to be excessive salinity is determined by the uses to be made of the water and the availability of water from other sources. Uses include water for human consumption, consumption by livestock and other animals, industrial use, irrigation, and propagation of fish and wildlife. When no freshwater is available, slightly saline waters may be viewed as having acceptable quality for some purposes. Salinity levels can also have a significant impact on plant growth and health. Salt tolerances of plants depend on a variety of conditions ranging from plant type to climatology of the area in which the plant grows to amounts and manner of application of irrigation waters. A table detailing salinity levels is presented to follow.

Water Usage and Typical Salinity

Use	Typical Salinity (parts per million)
Drinking Water	100 ppm
Restriction on Drinking Water	500 ppm
Limit Drinking Water	1,000 ppm
Limit Agriculture Irrigation	2,000 ppm
Sea Water	30,000 – 50,000 ppm

Lafourche Parish is highly vulnerable to saltwater intrusion. The probability that saltwater intrusion will continue to affect the wetland areas of the parish is 100%. As coastal marshland erodes away, the waters surrounding this area will continue to become more brackish. To reduce the probability of saltwater intrusion, the parish has a saltwater intrusion blocking barge installed in the Company Canal near Bayou Lafourche. A second saltwater intrusion blocking barge is currently planned in Bayou Lafourche near the Valentine area. Saltwater intrusion has the potential to occur many times a year but with the saltwater intrusion hindering barges in place, the parish hopes the frequency of saltwater intrusion will be lowered in the future. Lafourche Parish typically has water that is within the safety range for human consumption, but during storm surge events the probability the gates will need to be closed and drinking water will need to be acquired elsewhere increases.

Water District No. 1, north of the Gulf Intracoastal Waterway, contains two freshwater intakes on Bayou Lafourche, one located in Lockport and the other along LA 1 south of Nicholls University. The location in Lockport is the larger of the two and been intruded by saltwater three times. In those instances, the small reservoir (1-2 days worth of potable water storage) is able to temper the need for alternative sources as the second intake is not able to service the entirety of the Water District. In a worst-case scenario event with the entire reservoir being used, water would have to be trucked in for the majority of the water district.

Because saltwater intrusion is a secondary hazard impact affecting potable water and no structures, potential dollar losses on structures (critical facilities) were not able to be compiled. As the water supply does also have a back-up source, the losses of saltwater intrusion are difficult to quantify for the purposes of this HMPU. If all potable water intakes were to be exposed to saltwater intrusion, resulting in water having to be trucked in for the entire community, the cost would exceed millions of dollars.

TORNADOES

Although no federal disasters have occurred in Lafourche Parish solely due to tornadoes, the HMPU Committee identified tornadoes as a potential risk throughout the parish.

A tornado is a violent windstorm characterized by a twisting, funnel-shaped cloud. It is spawned by a thunderstorm or sometimes as a result of a hurricane and produced when cool air overrides a layer of warm air, forcing the warm air to rise rapidly. Tornadoes often form in convective cells like that of thunderstorms or in the right forward quadrant of a hurricane, far from the hurricane eye. The damage from a tornado is the result of high wind speeds and wind-blown debris. Tornadoes can occur at any time of year. Tornado damage severity is measured by the Fujita Tornado Scale based on wind speed and described in the table to follow.

Fujita Tornado Measurement Scale		
Category	Wind Speed	Examples of Possible Damage
F0	Gale (40-72 mph)	Light damage. Some damage to chimneys; break branches of trees; push over shallow rooted trees; damage to sign boards
F1	Moderate (73-112 mph)	Moderate damage. Peel surface off roofs; mobil homes pushed off foundations or overturned; moving autos pushed off roads.
F2	Significant (113-157 mph)	Considerable damage. Roofs torn off frame houses; mobile homes demolished; boxcars pushed over; large trees snapped or uprooted; light-object missiles generated.
F3	Severe (158-206 mph)	Severe damage. Roofs and some walls torn off well constructed houses; trains overturned; most trees in forest uprooted; cars lifted off ground and thrown.
F4	Devastating (207-260 mph)	Devastating damage. Well-constructed houses leveled; structures with weak foundations blown off some distance; cars thrown and large missiles generated.
F5	Incredible (261-318 mph)	Incredible damage. Strong frame houses lifted off foundations and carried considerable distance to disintegrate; automobile sized missiles fly through air in excess of 100 yards; trees debarked; incredible phenomena will occur.

Source:

<http://www.fema.gov/hazards/tornadoes>

Note: These precise wind speed numbers are actually guesses and have never been scientifically verified. Different wind speeds may cause similar-looking damage from place to place even from building to building. Without a thorough engineering analysis of tornado damage in any event, the actual wind speeds needed to cause that damage are unknown.

Because of the unpredictability of tornado paths and the destruction of commonly used instruments, direct measurements of wind speeds have not been made in tornadoes. Wind speeds are judged from the intensity of damage to buildings.

High winds are capable of imposing large lateral (horizontal) and uplift (vertical) forces on buildings. Residential buildings can suffer extensive wind damage when they are improperly designed and constructed and when wind speeds exceed design levels. The effects of high winds on a building will depend on the following factors:

- Wind speed (sustained and gusts) and duration of high winds
- Height of building above ground
- Exposure or shielding of the building (by topography, vegetation, or other buildings) relative to wind direction
- Strength of the structural frame, connections, and envelope (walls and roof)
- Shape of building and building components
- Number, size, location, and strength of openings (windows, doors, vents)
- Presence and strength of shutters or opening protection
- Type, quantity, velocity of windborne debris

A tornado watch is issued to alert people to the possibility of a tornado developing in the area. Under a tornado watch, a tornado has not been seen but the conditions are very favorable for tornadoes to occur at any moment. Conditions favorable for a tornado to occur include:

- Dark greenish or orange-gray skies
- Large hail
- Large, dark, low-lying, rotating or funnel-shaped clouds
- A loud roar that is similar to a freight train

A tornado warning is issued when a tornado has actually been sighted or when Doppler radar identifies a distinctive “hook-shaped” area within a local partition of a thunderstorm line that is likely to form a tornado.

People who reside in mobile homes are most exposed to damage from tornadoes. Even if anchored, mobile homes do not withstand high wind speeds as well as permanent, site-built structures. As illustrated in the table below, the most vulnerable areas that contain the most mobile home parks are Raceland and Thibodaux. However, all of the 38,579 structures located in the planning area are vulnerable to damage from a tornado.

Community or Municipality Name and Number of Mobile Home Parks

Community or Municipality	Number of Mobile Home Parks
Bayou Blue	5
Chackbay	2
Cut Off	2
Fourchon	3
Galliano	5
Gheens	1
Golden Meadow	3
Gray	2
Larose	1
Lockport	3
Raceland	6
Thibodaux	7

Lafourche Parish is most vulnerable to the effects of tornadoes during severe tropical storms and hurricanes. Some structural mitigation actions have been identified which will reduce damages caused by tornadoes; however, some wind mitigation actions identified under the hurricane hazard may lessen the effects of tornado-force winds.

The parish has not had any federally declared disasters due to a tornado alone. Climate data from the NOAA reports 31 tornadoes within Lafourche Parish between the years 1958-2008 with an annual probability of sixty-two percent. A detailed list of tornadoes and the related damage is displayed to follow.

**Lafourche Parish Tornado History
1958-2008**

Date	Type	Mag	Death	Injury	Property Damage
2/3/1960	Tornado	F2	0	8	\$250,000
11/13/1961	Tornado	F1	0	0	\$25,000
10/3/1964	Tornado	F1	0	0	\$3,000
10/3/1964	Tornado	F1	0	0	\$25,000
10/3/1964	Tornado	F4	22	165	\$2,500,000
7/7/1966	Tornado	F0	0	0	\$0
12/6/1971	Tornado	F1	0	0	\$3,000
11/18/1972	Tornado	F1	0	0	\$25,000
1/19/1974	Tornado	F1	0	0	\$25,000
7/23/1974	Tornado	F1	0	0	\$3,000
5/8/1980	Tornado	F1	0	0	\$250,000
8/11/1981	Tornado	F1	0	2	\$3,000
4/22/1983	Tornado	F1	0	0	\$25,000
3/15/1990	Tornado	F0	0	0	\$25,000
12/3/1990	Tornado	F1	0	0	\$3,000
3/1/1991	Tornado	F1	0	1	\$25,000
5/8/1991	Tornado	F1	0	0	\$25,000
1/12/1992	Tornado	F1	0	0	\$25,000
11/20/1992	Tornado	F1	0	1	\$25,000
8/11/1996	Tornado	F0	0	0	\$0
4/11/1997	Tornado	F0	0	0	\$50,000
9/10/1998	Tornado	F2	1	6	\$500,000
11/20/1998	Tornado	F0	0	0	\$15,000
1/2/1999	Tornado	F1	0	0	\$275,000
5/27/1999	Tornado	F0	0	0	\$50,000
3/15/2000	Tornado	F1	0	1	\$20,000
9/25/2002	Tornado	F1	0	0	\$0
10/9/2004	Tornado	F0	0	0	\$5,000
4/6/2005	Tornado	F2	0	2	\$250,000
7/15/2005	Tornado	F0	0	0	\$0
10/16/2006	Tornado	F1	0	3	\$40,000
TOTALS			23	189	\$4,470,000

Because tornadoes are so sporadic and have historically caused little damage throughout the parish, one can estimate that the average annual losses for a tornado would not exceed \$91,000, based on historical losses from the NOAA. For this reason, the committee agreed to assign the municipalities and the unincorporated area of Lafourche Parish at a medium risk for tornadoes. All wind related mitigation can be found in Attachment c3-1 on pages 109-111.

2. §201.6 (c)(2)(ii)-Continued

The risk assessment process was developed using data from past hazard events, existing and future land use data, HAZUS, FEMA flood maps, and FEMA repetitive loss

structures. The land use map used for this purpose is displayed in the Attachment c2-6 on page 64 following this section.

Once all data was compiled and mapped, a final risk assessment map of three separate assessment methodologies was created as a composite. Of the data that could be mapped, flooding was the dominant concern. Coastal erosion issues arise in the southern half of the parish. Windstorms, or in this case the winds generated by hurricanes, are also a parishwide concern. Levee failure is also a concern to the entire planning area.

The three individual risk assessment analyses are the (1) 100-year flood plain based on DFIRMs and the data included therewith, (2) risk assessment based on past storm events, and (3) FEMA repetitive loss structures. Composite risk assessment maps are displayed as Attachments c2-17.1 through c2-17.1C (pages 80-83) at the end of this section. Hypothetical levee failure maps are displayed as Attachments c2-18.1 through c2-18.1C (pages 84-87). A summary of the approach utilized in each independent map of the composite series is noted below.

100-Year Flood Plain—FEMA DFIRMs

The 100-year flood plain map was developed using FEMA DFIRM data and GIS software. Since a majority of the parish is within the 100-year flood plain, this mapped data along with the ABFEs was used in evaluation of the parish that is prone to present and future flooding damage. This map depicts which areas of the parish are vulnerable to a 100-year flood regardless of land use and with no regard for the source or type of flooding. A map of the 100-year flood plain is displayed as Attachment c2-4 (page 62) at the end of this section.

Risk Assessment Based on Past Storm Events

The second risk assessment technique utilized in the preparation of this HMPU is based upon past storm events. This approach was developed using data such as specific flood elevations from major past hazard events. The events and data captured to create this image are as follows: Hurricane Rita (2005), Hurricane Katrina (2005), Tropical Storm Isidore (2002), Tropical Storm Allison (2001), Hurricane Andrew (1992), and Hurricane Juan (1985).

The approach and methodology was found to be useful in determining what specific areas and land uses of the parish are vulnerable to hazards (primarily flooding) and which specific types of flooding are generating or creating that vulnerability. The past storm event assessment maps are displayed in Attachments c2-9 through c2-14 at the end of this section (pages 72-77).

Levee Failure

The third risk assessment technique utilized in the preparation of this plan was based on hypothetical levee failure. High water levels from USACE gauge data as well as USGS gauge data were used to establish theoretical elevation for flood waters that would inundate the areas if the levees were to fail. The

inundation area was interpreted with LIDAR to produce water depth levels. The levee failure map is presented as Attachment c2-18.1 (page 84).

FEMA Repetitive Loss Structures

The third independent vulnerability assessment mapping task was based on the FEMA repetitive loss structures inventory. According to GOHSEP, Lafourche Parish has a total of 310 repetitive loss structures, 49 of which are on the FEMA Severe Repetitive Loss list. A Severe Repetitive Loss is defined as a residential property with at least four National Flood Insurance Program (NFIP) payments over \$5,000 and the cumulative amount exceeds \$20,000 or at least two separate claims payments have been made with the total payments exceeding the market value of the building (FEMA 2004). This data was useful in (a) determining which residential and commercial properties have been damaged as a result of past hazard events and (b) in focusing on specific losses and groups of losses, especially when common causes were apparent. The FEMA repetitive loss structure map is displayed as Attachment c2-16 on page 79.

The final Lafourche Parish Risk Assessment Map is a composite of the four mapped data sets outlined above. Composite risk assessment maps are displayed as Attachments c2-17 through c2-17.1C (pages 80-83) at the end of this section.

As noted in Attachment c2-4, the majority of the parish is within the 100-year flood zone as defined by FEMA's DFIRM maps. When comparing this data to actual flood event data, the land comprising the highest elevation along the Bayou Lafourche Ridge is readily discernable. This layered combination shows the vulnerable areas in the parish.

Even with the magnitude of technical data used, the most accurate and objective data inventoried was that of specific repetitive losses. As previously stated, the parish has 310 repetitive loss structures that are dispersed throughout the inhabited areas of the parish.

a. §201.6 (c)(2)(ii)(A) The plan should describe vulnerability in terms of the types and numbers of existing and future buildings, infrastructure, and critical facilities located on the identified hazard areas;

A general list of assets that could be damaged by a hazard event was developed and mapped using GIS software. This list was collected from sources including local government officials and HAZUS following the guidelines prepared for HMPU preparation. Details and results of that process are noted below.

WORKSHEET #3A
Composite Flood Risk
Inventory of Assets for Entire Parish

Worksheet #3A of (Attachment c2-19.1 on page 88) provides a general overview of the assets of the parish as a whole. While collecting and researching the data within this table, several information sources were utilized including HAZUS, mapped data from parish, and state mapping sources. For this worksheet and supporting tabular data, a combination of the 100-year flood plain and the past storm event risk assessment map coverage area was used as the hazard area for the entire parish. In the determination of hazard area percentages, a census tract map from HAZUS was overlaid onto the 100-year flood plain and risk assessment maps.

A total of 38,579 structures in the parish with an estimated value of \$5,733,951,000 was noted. An estimated 26,336 of these with a value of \$3,922,212,000 are in the hazard area. The total of the residential population within Lafourche Parish is 89,974, and 61,217 of these are in the hazard area.

Residential

The residential classification of Lafourche Parish is the largest building group within the parish. Data indicates 36,193 structures (dwelling units) with an estimated value of \$4,614,270,000. Of these buildings, 68% are located in the hazard area with an estimated value of \$3,134,205,000.

Commercial

Commercial buildings number 1,616 in the parish. The estimated value of these buildings is \$727,889,000, and 71% of the buildings are located in the hazard area with an estimated value of \$526,899,000.

Industrial

The industrial classification of the parish consists of 436 buildings with an estimated value of \$221,127,000. Of the buildings noted, approximately 68% are in the hazard area with an estimated value of \$143,704,000.

Agricultural

In the agricultural class, 110 buildings exist with an estimated value of \$16,507,000. Of these, approximately 63% are in the hazard area and have an estimated value of \$11,269,000.

Government

Within the government classification, 52 buildings and facilities were identified. 75% of the buildings are in a hazard area. The structures have an estimated value of \$28,107,000, \$19,289,000 of which are located in the hazard area.

Schools

Schools number 52 in the parish. The estimated value of these buildings is \$54,522,000, and 63% of the buildings are located in the hazard area with an estimated value of \$36,077,000.

Religious/Non-Profit

Religious/Non-Profit buildings number 120 in the parish. The estimated value of these buildings is \$71,529,000, and 70% of the buildings are located in the hazard area with an estimated value of \$50,769,000.

The following iterations of Worksheet 3A are represented as Attachments c2-19.1 through c2-19.5 (pages 88-92):

- Levee Failure and Hurricane Risk Assessments for the Entire Parish
- Flood, Levee Failure, and Hurricane Risk Assessments
 - Lockport
 - Golden Meadow
 - Thibodaux
 - Unincorporated Areas of Lafourche Parish

Critical Facilities of the Parish

A detailed list of critical facilities for the entire parish is present in Attachment c2-20 (pages 93-94). This list was compiled according to the following pre-defined groups:

- Essential facilities
- Utilities

This information was gathered from sources including HAZUS and interviews with Lafourche Parish government officials. After the list of critical facilities for the entire parish was completed, the HMPU committee reviewed the list and made the necessary changes. The critical facility maps are displayed in Attachments c2-7.1 through c2-7.6 (pages 65-70) at the end of this section.

Critical Facilities within Hazard Areas

A list of critical facilities within the hazard area was compiled to identify areas truly at risk. As with critical facilities in the parish, the definition of the hazard area was based on risk assessment determined as a function of past storm events in combination with the FEMA-based 100-year flood plain. All identified facilities within these areas were compiled into a second critical facilities list as seen in Attachment c2-21 (pages 95-96) at the end of this section.

WORKSHEET 4

Using the aforementioned critical facilities list, HAZUS replacement value data, GIS models, and input from HMPU committee members, FEMA Worksheet 4 loss estimates were compiled (as presented in attachments c2-23.1 through c2-23.3, pages 103-108) for hypothetical levee failure, hurricanes, and composite risk flood events.

Using historical high water marks, the respective areas were inundated and the critical facilities flood levels noted. The flood levels were then compared to FEMA damage estimate models for structure percent damaged, contents loss, and function loss, to come up with a total loss estimate for the parish critical facilities in each event.

The total estimated losses were \$5.2 billion for the composite risk area, \$5.2 billion for hurricanes, and \$8.1 billion for levee failure. Detailed cost estimates for each critical facility can be found in Attachments c2-23.1-23.3, pages 103-108.

b. §201.6 (c)(2)(ii)(B) An estimate of the potential dollar losses to vulnerable structures identified in paragraph (c)(2)(i)(a) of this section and a description of the methodology used to prepare the estimate;

The HMPU Committee planning team used GIS software, HAZUS, interviews with parish officials, and historical data to estimate the potential dollar losses if the parish was to experience a flooding event. The vulnerable structures and facilities were identified earlier in section §201.6 (c)(2)(ii)(A). As seen in Attachment c2-22 (pages 97-102) at the end of this section, 310 repetitive loss structures exist within Lafourche Parish, and 49 are on the Severe Repetitive Loss List. As noted previously, all FEMA repetitive loss data was gathered from GOHSEP and FEMA Region IV. Efforts to identify accurate addresses were exhaustive.

The repetitive loss structures map is displayed in Attachment c2-16 (page 79). Repetitive loss structures are also depicted on all risk assessment maps (Attachments c2-17.1 through c2-17.1C). Supporting data was gathered from GOHSEP. The parish used the guidelines in the FEMA document *Understanding Your Risks: Identifying Hazards and Estimating Losses* to develop a cost estimate for damage for critical facilities. Information such as function loss, displacement days, function use, and capacity do not apply to residential properties. Therefore, the FEMA average claimed loss value was used in estimating losses for residential structures. The estimated costs are as follows:

Potential Flood Losses:

- **FEMA repetitive loss structures (Residential Properties):** 879 total losses with a total average insurance pay of \$52,117 per event.

Flood Insurance and Community Rating System

Lafourche Parish participates in both the National Flood Insurance Program (NFIP) and the Community Rating System (CRS). The tables to follow provide details regarding NFIP and CRS participation.

NFIP Participation in Lafourche Parish

CID	Community Name	Initial FHB Identified	Initial FIRM Identified	Current Effective Map Date	Reg-Emer Date	Tribal
225202	Lafourche Parish	5/08/71	7/01/74	5/04/92	4/17/85	No
220111	City of Thibodaux	2/12/74	2/07/78	12/15/89	2/07/78	No
225196	Town of Golden Meadow	11/20/70	9/11/70	7/11/75	11/20/70	No
225254	Town of Lockport	1/10/75	8/15/80	8/15/80	8/15/80	No

This information was obtained from FEMA's Community Status Book – www.fema.gov/cis/LA.html

CRS Participation in Lafourche Parish

Community Number	Name	CRS Entry Date	Current Effective Date	Current Class	% Discount for SFHA	% Discount for Non-SFHA	Status
225202	Lafourche Parish	1/1/92	5/1/04	10	0	0	R

This information was obtained from FEMA's Community Rating System – www.fema.gov/library/viewrecord.do?id=3629

c. §201.6 (c)(2)(ii)(C) Providing a general description of land uses and development trends within the community so that mitigation options can be considered in future land use decisions.

A detailed description of land use data is provided in the first section of this report in the section entitled “Introduction.” Physical and cultural aspects of the parish including land use, drainage basins, and the economy were noted. The text below focuses on future land use and its bearing on this Hazard Mitigation Plan.

From 1990 to 2000, the parish population increased from 89,974 to 93,554, a 4% increase, with growth expected to continue. With this in mind, it is anticipated that with a projected rise in residential growth will come an increased demand for recreational opportunities, business growth, and economic diversity. The population centers include the three municipalities and smaller community areas such as Raceland, Larose, Cut Off, and Galliano. As noted in the introductory section of this HMPU, most of the communities in Lafourche Parish are located on the highest land in the parish, areas that are not flood prone. However, as more impervious surfaces are constructed, runoff rates will increase and drainage capacity will need to be managed in order to accommodate growth and drainage patterns in these areas. All new construction will conform to the International Building Code requirements adopted by the state in 2006.

Other urban land use has shown little growth in the past two decades. Therefore, little by way of mitigation options is necessary. Nonetheless, based upon the past several decades of parish development and the management of that development, the Lafourche

Parish Government is very much aware of state and federal mandates regarding flood zone management, and protecting the valuable wetland and coastal areas of the state.

3. §201.6 (c)(2)(iii) For multi-jurisdictional plans, the risk assessment section must assess each jurisdiction's risks where they vary from the risks facing the entire planning area.

To ensure parishwide coverage of hazard planning, each municipality of the parish participated in the creation of the Lafourche Parish Mitigation Plan Update. As noted previously, elected officials, representatives of pertinent public works departments, and representatives of the general public from each community participated in the planning process.

As noted previously, the parish encompasses three incorporated municipalities: Thibodaux, Lockport, and Golden Meadow. Each town or city includes its own independent governing authority by way of elected officials including a mayor and city council. The risk assessment included each municipality as well as all unincorporated communities of the parish. Information provided below focuses on those communities. Similar to the parish plan, the communities are subjected to the same type of hazards as identified heretofore.

Thibodaux

The city of Thibodaux is the parish seat and is located in the north western section of Lafourche Parish. Twenty-one repetitive loss structures reside within the city limits. According to the hypothetical levee failure risk assessment, less than 5% of the city would be vulnerable to catastrophic levee failure. A map of the risk area for levee failure can be located in Attachment c2-18.1A on page 85. Over 90% of Thibodaux is outside of the 100-year floodplain, however according to the composite risk assessment, most of the city would be vulnerable to some sort of flooding in the event of a worst-case scenario storm. A map of the composite risk assessment for Thibodaux can be located in Attachments c2-17.1A on page 81.

Lockport

The town of Lockport is located near the center of Lafourche Parish. Five repetitive loss structures reside within the town limits. A portion of the town is in the 100-year floodplain, in which some critical facilities and repetitive loss structures are located. A map of the composite risk assessment for Lockport can be located in Attachment c2-17.1B on page 82. According to the hypothetical levee failure risk assessment, over half of the town would be vulnerable to flooding in the event of a levee breach. A map of the risk area for levee failure can be located in Attachment c2-18.1B on page 86.

Golden Meadow

The town of Golden Meadow is located in the southern section of Lafourche Parish. Eight repetitive loss structures reside in the town limits and the entire town lies

within the 100 year floodplain. A map of the composite risk assessment for Golden Meadow can be located in Attachment c2-17.1C on page 83. According to the hypothetical levee failure risk assessment, the entire town would be vulnerable to flooding in the event of a levee breach. A map of the risk area for levee failure can be located in Attachment c2-18.1C on page 87.

Unincorporated Areas in Lafourche Parish

Lafourche Parish is located within the Terrebonne and Barataria Basins. Approximately ninety percent of the parish lies within the 100-year floodplain and the unincorporated area contains 295 repetitive loss structures. Maps of the composite risk and levee failure risk assessments for the parish can be located in Attachments c2-17.1 and c2-18.1 on pages 80 and 84.

Due to the geographic and man made features of Lafourche Parish, the risk associated with each type of hazard event differs based on any given locale within the parish. To assess the varying levels of risk, a summary table is provided to follow that establishes the various levels of risk across each incorporated and unincorporated area of the parish.

Multi-jurisdictional Risk Assessment for Hazard Events in Lafourche Parish

Hazard Event	Area			
	Golden Meadow	Lockport	Thibodaux	Unincorporated
Avalanche	NR	NR	NR	NR
Coastal Erosion	Med	Low	Low	High
Coastal (Tropical) Storm	High	High	High	High
Levee (Dam) Failure	High	High	Med	High
Drought	Low	Low	Low	Low
Earthquake	NR	NR	NR	NR
Expansive Soil	Low	Low	Low	Low
Extreme Heat	Med	Med	Med	Med
Flood	High	High	Med	High
Hail Storm	Low	Low	Low	Low
Hurricane	High	High	High	High
Land Subsidence	Med	Med	Med	Med
Landslide	NR	NR	NR	NR
Saltwater Intrusion	High	Low	Low	High
Severe Winter Storm	Low	Low	Low	Low
Tornado	Med	Med	Med	Med
Tsunami	NR	NR	NR	NR
Volcano	NR	NR	NR	NR
Wildfire	Low	Low	Low	Low

NR= No Hazard Events Historically Recorded

N/A= Not Applicable

High= These hazards have historically and repetitively impacted the parish or jurisdiction and have the greatest probability to directly cause damage to property or infrastructure

Med= These hazards have some potential to cause damage to property or infrastructure, but have not significantly affected the jurisdiction.

Low= The Steering Committee defined Low Risk Hazards as those least likely to affect the parish or jurisdiction.

As previously established in Section 201.6(c) (2) (ii) of this HMPU, flooding associated with various storm events (hurricanes and tropical storms) represent a major risk for the entire planning area. The effects of historical storm events and the 100-year flood plain have been combined to create a composite risk map. Several versions of the map were created to provide sufficient detail and to illustrate what areas of the parish are at risk. The maps represent each municipality and the unincorporated areas of Lafourche Parish and are included as Attachments c2-17.1 – 17.1C.

In addition, various iterations of the previously described Worksheet #3A have been created to provide risk assessments for flood events, levee failure, and hurricanes within these different areas of the parish. The information presented in the worksheets represents estimates intended to provide a general overview of the number and value of structure types located in each jurisdiction of the parish and the proportion located within the hazard area of each jurisdiction. The following summary table represents the information provided in the worksheets. As described earlier in this section, the data illustrating highest hazard vulnerability is reported in the summary table. For additional detail, refer to the worksheets included as Attachments c2-19.1 through c2-19.5.

Multi-jurisdictional Summary of Worksheet #3A for Lafourche Parish

Statistic	Area			
	Thibodaux	Lockport	Golden Meadow	Unincorporated
Total Structures	6,915	1,499	1,260	28,905
Total Value of Structures (millions)	\$1,201,037,000	\$163,638,000	\$157,360,000	\$4,214,316,000
Structures in Hazard Area	6,915	697	1,260	8,382
Value of Structures in Hazard Area (millions)	\$1,201,037,000	\$62,528,000	\$157,360,000	\$1,222,151,640
Residential Population of Area	6,260	1,411	1,169	69,163
% of Population in Hazard Area	100%	47%	100%	60%

IV. §201.6 (c) PLAN CONTENT ATTACHMENTS

Attachment c1-1
Lafourche Parish Hazard Mitigation Plan Update Committee List

Last Name	First Name	Title	Agency
Adams	Ronald	President	North Lafourche Conservation Levee and Drainage District
Adams	Andrew	Fire Chief	St. John Vol. Fire Dept
Benoit	Kathy	President/CEO	Thibodaux Chamber of Commerce
Benoit	Eric	Assistant OEP Director	Lafourche Parish Government
Blanchard	Richard	Lt.	La. State Police Troop C.
Boudreaux	Chris	OEP Director	Lafourche Parish Government
Boudreaux	Chris	Fire Chief	Chackbay Vol. Fire Dept
Boulet	Henri	Executive Director	LA 1 Coalition
Bourgeois	Raoul, Jr.	President	5th Ward Gravity Drainage District #5
Bourgeois	Milton	Administrator	St. Anne General Hospital
Bourgeois	Glenn	DPW Area Supervisor	Lafourche Parish Government
Bouziga	Joey	Mayor	Town of Golden Meadow
Caillouet	Charles	Mayor	City of Thibodaux
Callais	Jon	Chief	Greater Lafourche Port Commission - Harbor Police
Champagne	Richard	Mayor	Town of Lockport
Chauvin	Leonard	Engineer	North Lafourche Conservation Levee and Drainage District
Chiasson	Crystal	Parish Administrator	Lafourche Parish Government
Comeaux	Glynn	Fire Chief	Lafourche Fire District #1
Cressionie	Spence	Fire Chief	Vacherie/Gheens Vol Fire Dept
Curole	Windell	Executive Director	South Lafourche Levee District
Daigle	Brady	Assistant Director	Lafourche Ambulance
Danos	Jerome	Solid Waste Manager	Lafourche Parish Government
Davenport	John	Plant Operations	Lady of the Sea General Hospital
Davis	Chad	Regional Supervisor	Acadian Ambulance
Degravelle	Eric	Director of Safety	Thibodaux Regional Medical Center
Delatte	Wilton, Sr.	Chairman	Drainage District #6
Delatte	Michael	Councilman - Dist #2	Lafourche Parish Government
Doucet	Rodney	Councilman - Dist #8	Lafourche Parish Government
Duet	Darla	Floodplain Manager	Lafourche Parish Government
Falgoust	Ted	Director	Greater Lafourche Port Commission
Fertitta	Joe	Councilman - Dist #4	Lafourche Parish Government
Gauthreaux	Debbie	Director	Lafourche Ambulance
George	Kevin	Principal	Thibodaux High School
Glaspell	Mike		Town of Lockport Police Dept
Gouaux	Philip	Councilman - Dist #7	Lafourche Parish Government
Guidry	Albert	Chairman	Drainage District #1
Guidry	Freddy	Fire Chief	Lafourche Fire District #3
Hendrix	Kyra	Permits Manager	Lafourche Parish Government
Herbert	Kathy		St. Anne General Hospital
Himel	Chastity	Finance Director	Lafourche Parish Government
Hughes	Denise	Community Aciton Director	Lafourche Parish Government
Jaccuzzo	Craig	Chief	Nicholls State University Police
Jones	Jerry	Councilman - Dist #1	Lafourche Parish Government
Kiger	Lin	Executive Director	Chamber of Lafourche
Kraemer	Kermit	Public Works Director	City of Thibodaux
Lagarde	Lionel	Chariman of the Board	Chamber of Lafourche
Ledet	Jimmy	Principal	Central Lafourche High School
Lorraine	Daniel	Councilman - Dist #9	Lafourche Parish Government
Louviere	Chel	Chief	Town of Golden Meadow Police
Maloz	Simone	Executive Director	Restore or Retreat
Marcel	Kevin	Lt.	La. State Police Troop C.
Martin	Michael	Tax Assessor	Lafourche Assessor
Martinez	Val	Fire Chief	Bayou Bouef Vol Fire Dept
Matherne	Patricia	Planning Manager	Lafourche Parish Government
Matherne	Nicholas	Director of Coastal Zone Management office	Lafourche Parish Government
Matherne	Brennan	Recreation Manager	Lafourche Parish Government

Matherne	Matt	Councilman - Dist #5	Lafourche Parish Government
Melacon	Craig	Chief	City of Thibodaux Police Dept
Moore	Debbie	Permits Office	Lafourche Parish Government
Naquin	Mike	Fire Chief	Thibodaux Vol. Fire Dept.
Naquin	Jarrod	Fire Chief	Lafourche Crossing 308 Fire Dept
Parks	Harvey, Jr.	Fire Chief	Bayou Blue Fire Dept
Plaisance	Carl	Fire Chief	Lockport Vol. Fire Dept
Randolph	Charlotte	Parish President	Lafourche Parish Government
Richard	Louis	Councilman - Dist #3	Lafourche Parish Government
Rink	Craig	Fire Chief	Choctaw Vol. Fire Dept
Robichaux	Ronnie	Director of Public Works	Lafourche Parish Government
Rodriguez	Charlene	Director	Lafourche Parish Council on Aging
Sauder	Jasmine	Executive Director	Larose Civic Center
Smith	Faye	Risk Manager	Lafourche Parish Government
Stock	Greg	CEO	Thibodaux Regional Medical Center
Szush	Joe	Regional Supervisor	Acadian Ambulance
Toups	Donna	Deputy Director of Public Works	Lafourche Parish Government
Toups	Lindel	Councilman - Dist #6	Lafourche Parish Government
Toups	Scott	Captain	City of Thibodaux Police Dept
Trosclair	Randy	Administrative Program Director	Lafourche Basin Levee District
Turner	Thomas	Community Service Director	Lafourche Parish Government
Vedros	Warren	Chief	Town of Lockport Police Dept
Washington	Gary	DPW Area Supervisor	Lafourche Parish Government
Webre	Craig	Sheriff	Lafourche Parish Sheriff

**Attachment c1-2
HMPU Committee Attendance Summary**

Lafourche Parish Hazard Mitigation Plan Update Committee Meeting Attendees							
Last Name	First Name	Title	Agency	Meeting 1	Meeting 2	Meeting 3	Meeting 4
Adams	Ronald	President	North Lafourche Conservation Levee and Drainage District				
Adams	Andrew	Fire Chief	St. John Vol. Fire Dept				
Benoit	Kathy	President/CEO	Thibodaux Chamber of Commerce				
Benoit	Eric	Assistant OEP Director	Lafourche Parish Government	X	X	X	
Blanchard	Richard	Lt.	La. State Police Troop C.				
Boudreaux	Chris	OEP Director	Lafourche Parish Government	X		X	
Boudreaux	Chris	Fire Chief	Chackbay Vol. Fire Dept		X	X	
Boulet	Henri	Executive Director	LA 1 Coalition		X		X
Bourgeois	Raoul, Jr.	President	5th Ward Gravity Drainage District #5				
Bourgeois	Milton	Administrator	St. Anne General Hospital				
Bourgeois	Glenn	DPW Area Supervisor	Lafourche Parish Government	X	X		
Bouziga	Joey	Mayor	Town of Golden Meadow			X	
Caillouet	Charles	Mayor	City of Thibodaux				
Callais	Jon	Chief	Greater Lafourche Port Commission - Harbor Police				
Champagne	Richard	Mayor	Town of Lockport	X	X	X	X
Chauvin	Leonard	Engineer	North Lafourche Conservation Levee and Drainage District				
Chiasson	Crystal	Parish Administrator	Lafourche Parish Government	X			
Comeaux	Glynn	Fire Chief	Lafourche Fire District #1				
Cressionie	Spence	Fire Chief	Vacherie/Gheens Vol Fire Dept				
Curole	Windell	Executive Director	South Lafourche Levee District				
Daigle	Brady	Assistant Director	Lafourche Ambulance	X	X		
Danos	Jerome	Solid Waste Manager	Lafourche Parish Government				
Davenport	John	Plant Operations	Lady of the Sea General Hospital	X	X	X	X
Davis	Chad	Regional Supervisor	Acadian Ambulance	X	X		
Degravelle	Eric	Director of Safety	Thibodaux Regional Medical Center		X	X	X
Delatte	Wilton, Sr.	Chairman	Drainage District #6				
Delatte	Michael	Councilman - Dist #2	Lafourche Parish Government				
Doucet	Rodney	Councilman - Dist #8	Lafourche Parish Government				
Duet	Darla	Floodplain Manager	Lafourche Parish Government	X	X	X	X
Falgoust	Ted	Director	Greater Lafourche Port Commission				
Fertitta	Joe	Councilman - Dist #4	Lafourche Parish Government				
Gauthreaux	Debbie	Director	Lafourche Ambulance				
George	Kevin	Principal	Thibodaux High School				
Glaspell	Mike		Town of Lockport Police Dept				
Gouaux	Philip	Councilman - Dist #7	Lafourche Parish Government			X	
Guidry	Albert	Chairman	Drainage District #1		X		
Guidry	Freddy	Fire Chief	Lafourche Fire District #3		X	X	
Hendrix	Kyra	Permits Manager	Lafourche Parish Government	X			
Herbert	Kathy		St. Anne General Hospital				
Himel	Chasity	Finance Director	Lafourche Parish Government	X			
Hughes	Denise	Community Action Director	Lafourche Parish Government				

Last Name	First Name	Title	Agency	Meeting 1	Meeting 2	Meeting 3	Meeting 4
Jaccuzzo	Craig	Chief	Nicholls State University Police				
Jones	Jerry	Councilman - Dist #1	Lafourche Parish Government				
Kiger	Lin	Executive Director	Chamber of Lafourche	X	X	X	
Kraemer	Kermit	Public Works Director	City of Thibodaux			X	
Lagarde	Lionel	Chairman of the Board	Chamber of Lafourche				
Ledet	Jimmy	Principal	Central Lafourche High School				
Lorraine	Daniel	Councilman - Dist #9	Lafourche Parish Government				
Louviere	Chel	Chief	Town of Golden Meadow Police				
Maloz	Simone	Executive Director	Restore or Retreat				
Marcel	Kevin	Lt.	La. State Police Troop C.				
Martin	Michael	Tax Assessor	Lafourche Assessor				
Martinez	Val	Fire Chief	Bayou Bouef Vol Fire Dept				
Matheame	Patricia	Planning Manager	Lafourche Parish Government		X	X	X
Matheame	Nicholas	Director of Coastal Zone Management office	Lafourche Parish Government	X	X		X
Matheame	Brennan	Recreation Manager	Lafourche Parish Government	X			
Matheame	Matt	Councilman - Dist #5	Lafourche Parish Government				
McMaster	Leland		Grand Isle Police Dept				
Melacon	Craig	Chief	City of Thibodaux Police Dept				
Moore	Debbie	Permits Office	Lafourche Parish Government	X	X		X
Naquin	Mike	Fire Chief	Thibodaux Vol. Fire Dept.				
Naquin	Jarrod	Fire Chief	Lafourche Crossing 308 Fire Dept				
Parks	Harvey, Jr.	Fire Chief	Bayou Blue Fire Dept				
Plaisance	Carl	Fire Chief	Lockport Vol. Fire Dept				
Randolph	Charlotte	Parish President	Lafourche Parish Government	X			
Richard	Louis	Councilman - Dist #3	Lafourche Parish Government				
Rink	Craig	Fire Chief	Choctaw Vol. Fire Dept				
Robichaux	Ronnie	Director of Public Works	Lafourche Parish Government	X			
Rodriguez	Charlene	Director	Lafourche Parish Council on Aging				
Sauder	Jasmine	Executive Director	Larose Civic Center				
Smith	Faye	Risk Manager	Lafourche Parish Government				
Stock	Greg	CEO	Thibodaux Regional Medical Center				
Szush	Joe	Regional Supervisor	Acadian Ambulance				
Toups	Donna	Deputy Director of Public Works	Lafourche Parish Government				
Toups	Lindel	Councilman - Dist #6	Lafourche Parish Government				
Toups	Scott	Captain	City of Thibodaux Police Dept				
Trosclair	Randy	Administrative Program Director	Lafourche Basin Levee District				
Turner	Thomas	Community Service Director	Lafourche Parish Government				
Vedros	Warren	Chief	Town of Lockport Police Dept			X	
Washington	Gay	DPW Area Supervisor	Lafourche Parish Government	X	X		
Webre	Craig	Sheriff	Lafourche Parish Sheriff				

Attachment c1-3 Identification of Hazards

Worksheet #1

Identify the Hazards

step **1**

Date: _____

What kinds of natural hazards can affect you?

Task A. List the hazards that may occur.

1. Research newspapers and other historical records.
2. Review existing plans and reports.
3. Talk to the experts in your community, state, or region.
4. Gather information on Internet Websites.
5. Next to the hazard list below, put a check mark in the Task A boxes beside all hazards that may occur in your community or state.

Task B. Focus on the most prevalent hazards in your community or state.

1. Go to hazard Websites.
2. Locate your community or state on the Website map.
3. Determine whether you are in a high-risk area. Get more localized information if necessary.
4. Next to the hazard list below, put a check mark in the Task B boxes beside all hazards that pose a significant threat.

- | | Task A | Task B |
|----------------------------------|-------------------------------------|-------------------------------------|
| Avalanche | <input type="checkbox"/> | <input type="checkbox"/> |
| Coastal Erosion | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| Coastal Storm | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| Dam Failure | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| Drought | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Earthquake | <input type="checkbox"/> | <input type="checkbox"/> |
| Expansive Soils | <input type="checkbox"/> | <input type="checkbox"/> |
| Extreme Heat | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Flood | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| Hailstorm | <input type="checkbox"/> | <input type="checkbox"/> |
| Hurricane | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| Land Subsidence | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| Landslide | <input type="checkbox"/> | <input type="checkbox"/> |
| Severe Winter Storm | <input type="checkbox"/> | <input type="checkbox"/> |
| Tornado | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Tsunami | <input type="checkbox"/> | <input type="checkbox"/> |
| Volcano | <input type="checkbox"/> | <input type="checkbox"/> |
| Wildfire | <input type="checkbox"/> | <input type="checkbox"/> |
| Windstorm | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| Other Levee Failure | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| Other Saltwater Intrusion | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| Other _____ | <input type="checkbox"/> | <input type="checkbox"/> |

floating barge / flood gate

Use this space to record information you find for each of the hazards you will be researching. Attach additional pages as necessary.

Hazard or Event Description (type of hazard, date of event, number of injuries, cost and types of damage, etc.)	Source of Information	Map Available for this Hazard?	Scale of Map
surge, tidal / south wind, storm water, rain event			

Note: Bolded hazards are addressed in this How-To Guide.

→ function of drought

Attachment c1-4.1A
Meeting 1—Advertisements

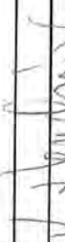
Parish to update mitigation plan

Lafourche Parish Government is updating the parish's hazard mitigation plan at a public meeting 9 a.m. Tuesday in the Town of Lockport Council Meeting Room. The purpose of the update is to identify and pursue preventative measures that will reduce future damages from natural hazards. To initialize the plan update, the Lafourche Parish Hazard Mitigation Committee will define the planning process, discuss a participation strategy and review the existing plan. The public is encouraged to attend the meeting.

**Attachment c1-4.1B
Meeting 1—Sign-in Sheets**

**Lafourche Parish Hazard Mitigation Plan Update Committee
Sign-in Sheet
Tuesday, July 29, 2008**

Signature	Last Name	First Name	Title	Agency
	Adams	Ronald	President	North Lafourche Conservation Levee and Drainage District
	Adams	Andrew	Fire Chief	St. John Vol. Fire Dept
<i>Eric Benoit</i>	Benoit	Kathy	President/CEO	Thibodaux Chamber of Commerce
	Benoit	Eric	Assistant OEP Director	Lafourche Parish Government
<i>Richard Blanchard</i>	Blanchard	Richard	Lt.	La. State Police Troop C.
	Boudreaux	Chris	OEP Director	Lafourche Parish Government
	Boudreaux	Chris	Fire Chief	Chackbay Vol. Fire Dept
	Boulet	Henri	Executive Director	LA 1 Coalition
	Bourgeois	Raoul, Jr.	President	5th Ward Gravity Drainage District #5
	Bourgeois	Milton	Administrator	St. Anne General Hospital
<i>Glenn Bourgeois</i>	Bourgeois	Glenn	DPW Area Supervisor	Lafourche Parish Government
	Bouziga	Joey	Mayor	Town of Golden Meadow
	Caillouet	Charles	Mayor	City of Thibodaux
	Callais	Jon	Chief	Greater Lafourche Port Commission - Harbor Police
<i>Richard Champagne</i>	Champagne	Richard	Mayor	Town of Lockport
	Chauvin	Leonard	Engineer	North Lafourche Conservation Levee and Drainage District
<i>C. Chiasson</i>	Chiasson	Crystal	Parish Administrator	Lafourche Parish Government
	Comeaux	Glynn	Fire Chief	Lafourche Fire District #1
	Cressionie	Spence	Fire Chief	Vacherie/Gheens Vol Fire Dept
	Curle	Windell	Executive Director	South Lafourche Levee District
<i>Brady Daigle</i>	Daigle	Brady	Assistant Director	Lafourche Ambulance
	Danos	Jerome	Solid Waste Manager	Lafourche Parish Government
<i>John Davenport</i>	Davenport	John	Plant Operations	Lady of the Sea General Hospital

Signature	Last Name	First Name	Title	Agency
	Davis	Chad	Regional Supervisor	Acadian Ambulance
	Degravelle	Eric	Director of Safety	Thibodaux Regional Medical Center
	Delatte	Wilton, Sr.	Chairman	Drainage District #6
	Delatte	Michael	Councilman - Dist #2	Lafourche Parish Government
	Doucet	Rodney	Councilman - Dist #8	Lafourche Parish Government
	Duet	Darla	Floodplain Manager	Lafourche Parish Government
	Falgoust	Ted	Director	Greater Lafourche Port Commission
	Fertitta	Joe	Councilman - Dist #4	Lafourche Parish Government
	Gauthreaux	Debbie	Director	Lafourche Ambulance
	George	Kevin	Principal	Thibodaux High School
	Glaspell	Mike		Town of Lockport Police Dept
	Gouaux	Philip	Councilman - Dist #7	Lafourche Parish Government
	Guidry	Albert	Chairman	Drainage District #1
	Guidry	Freddy	Fire Chief	Lafourche Fire District #3
	Hendrix	Kyra	Permits Manager	Lafourche Parish Government
	Herbert	Kathy		St. Anne General Hospital
	Himel	Chastity	Finance Director	Lafourche Parish Government
	Hughes	Denise	Community Aciton Director	Lafourche Parish Government
	Jaccuzzo	Craig	Chief	Nicholls State University Police
	Jones	Jerry	Councilman - Dist #1	Lafourche Parish Government
	Kiger	Lin	Executive Director	Chamber of Lafourche
	Kraemer	Kermit	Public Works Director	City of Thibodaux
	Lagarde	Lionel	Chariman of the Board	Chamber of Lafourche
	Ledet	Jimmy	Principal	Central Lafourche High School
	Lorraine	Daniel	Councilman - Dist #9	Lafourche Parish Government
	Louviere	Chel	Chief	Town of Golden Meadow Police
	Maloz	Simone	Executive Director	Restore or Retreat
	Marcel	Kevin	Lt.	La. State Police Troop C.
	Martin	Michael	Tax Assessor	Lafourche Assessor
	Martinez	Val	Fire Chief	Bayou Bouef Vol Fire Dept
	Matherne	Patricia	Planning Manager	Lafourche Parish Government

Signature	Last Name	First Name	Title	Agency
	Matherne	Nicholas	Director of Coastal Zone Management office	Lafourche Parish Government
	Matherne	Brennan	Recreation Manager	Lafourche Parish Government
	Matherne	Matt	Councilman - Dist #5	Lafourche Parish Government
	McMaster	Leland		Grand Isle Police Dept
	Melacon	Craig	Chief	City of Thibodaux Police Dept
	Moore	Debbie	Permits Office	Lafourche Parish Government
	Naquin	Mike	Fire Chief	Thibodaux Vol. Fire Dept.
	Naquin	Jarrod	Fire Chief	Lafourche Crossing 308 Fire Dept
	Parks	Harvey, Jr.	Fire Chief	Bayou Blue Fire Dept
	Plaisance	Carl	Fire Chief	Lockport Vol. Fire Dept
	Randolph	Charlotte	Parish President	Lafourche Parish Government
	Richard	Louis	Councilman - Dist #3	Lafourche Parish Government
	Rink	Craig	Fire Chief	Choctaw Vol. Fire Dept
	Robichaux	Ronnie	Director of Public Works	Lafourche Parish Government
	Rodriguez	Charlene	Director	Lafourche Parish Council on Aging
	Sauder	Jasmine	Executive Director	Larose Civic Center
	Smith	Faye	Risk Manager	Lafourche Parish Government
	Stock	Greg	CEO	Thibodaux Regional Medical Center
	Szush	Joe	Regional Supervisor	Acadian Ambulance
	Toups	Donna	Deputy Director of Public Works	Lafourche Parish Government
	Toups	Lindel	Councilman - Dist #6	Lafourche Parish Government
	Toups	Scott	Captain	City of Thibodaux Police Dept
	Trosclair	Randy	Administrative Program Director	Lafourche Basin Levee District
	Turner	Thomas	Community Service Director	Lafourche Parish Government
	Vedros	Warren	Chief	Town of Lockport Police Dept
	Washington	Gary	DPW Area Supervisor	Lafourche Parish Government
	Webre	Craig	Sheriff	Lafourche Parish Sheriff

Attachment c1-4.1C
Meeting 1—Meeting Agenda

Lafourche Parish
Hazard Mitigation Plan Update Committee Meeting #1
July 29, 2008

- I. INTRODUCTIONS AND WELCOME**
 - A. Attendance
 - B. Introductions
 - C. Reason for Being Asked to Join the Committee
 - D. Process and Funding Overview

- II. PURPOSE, NEED, AND EXPECTATIONS**
 - A. What/Why Hazard Mitigation Planning?
 - 1. Definitions
 - 2. Risk Assessment Methodology
 - 3. Parish/Committee Vision
 - B. Why Update?
 - 1. Revised FEMA approach
 - a. planning
 - b. scoping
 - 2. Additional issues
 - a. Katrina/Rita
 - b. assume levee failure
 - c. new ABFE's
 - d. projects implemented since 2006
 - e. identify new projects
 - C. Origins of Current DMA Hazard Mitigation Planning Process
 - D. Expectations
 - E. Project Milestones

- III. PARTICIPATION STRATEGY**
 - A. Committee Structure
 - 1. Expand/contract
 - 2. Steering committee*
 - 3. Meeting Frequency/Location
 - B. Civic Group Presentations
 - C. Concerns, Comments, Questions
 - D. Other Issues?

- IV. PLAN REVIEW**
 - A. Update Issues
 - 1. Review and re-identify hazards—worksheet
 - 2. Profile hazard events
 - B. Existing Goals

1. Identify and pursue preventative measures that will reduce future damages from hazards
2. Enhance public awareness and understanding of disaster preparedness
3. Reduce repetitive flood losses in the parish by pursuing various mitigation measures (acquisitions, elevations, and flood-proofing)
4. Facilitate sound development in the parish so as to reduce or eliminate the potential impact of hazards

V. SCOPING—IDENTIFY AND ANALYZE PROJECTS

- A. Identify and Analyze Projects-in-motion
- B. Evaluation and Prioritization
 1. STAPLEE method
 - a. technical
 - b. economic
 - c. environmental
 - d. social
 - e. administrative
 - f. political
 - g. legal
 2. Cost-benefit emphasis

VI. CONCLUSION

- A. Meeting Summary
 1. Purpose, need, and expectation
 2. Participation strategy
 3. Plan Review
 4. Scoping
 5. Conclusion
- B. Schedule/Locate Next Meeting
- C. Adjourn

Attachment c1-4.1D
Meeting 1—Meeting Agenda and Summary Meeting Notes

Lafourche Parish
Hazard Mitigation Plan Update Committee Meeting #1
Agenda with Notes
July 29, 2008

- I. INTRODUCTIONS AND WELCOME**
 - A. Attendance**—See attached sign-in sheet
 - B. Introductions**—Consultant Staff, FEMA/GOHSEP Reps, Parish Reps, and Others
 - C. Reason for Being Asked to Join the Committee**

Information presented focused on committee members sharing common goals, having the ability to see the “big picture,” and being stakeholders in the hazard mitigation process.
 - D. Process and Funding Overview**—Presented as \$150K with non-federal match covered by the State

- II. PURPOSE, NEED, AND EXPECTATIONS**
 - C. What/Why Hazard Mitigation Planning?**
 - 1. Definitions**

Mitigation = Prevention and minimizing loss during and after a hazard event
 - 2. Risk Assessment Methodology**
 - a. identify hazards
 - b. profile hazard events
 - c. inventory assets
 - d. estimate losses
 - 3. Parish/Committee Vision**

All agencies and representatives involved will have valuable information to include in the planning process. All areas of the parish and various agencies are represented on the committee for that reason.
 - D. Why Update?**
 - 1. Revised FEMA approach**—Incorporate BOTH planning and scoping
 - a. planning**

Update parish’s current hazard mitigation plan (February 2006)
 - b. scoping**

Serves as preliminary version of HMGP application in event that future funds become available for eligible mitigation projects
 - 2. Additional issues**

The following items are new incorporations into the hazard mitigation planning process—

- a. **Katrina/Rita**
Including inundation data and loss estimates
 - b. **assume levee failure**
Including hypothetical damages and potential mitigation projects
 - c. **new ABFE's**
ABFE = Advisory Base Flood Elevations for new construction
 - d. **projects implemented since 2006**
Identify projects in the current hazard mitigation plan (2006) that have already been implemented, and carry forward into the plan update those that have not
 - e. **identify new projects**
Identify new projects (drainage, infrastructure retrofits, etc.) that could alleviate potential losses due to hazard events
- C. **Origins of Current DMA Hazard Mitigation Planning Process**
DMA 2000 = Disaster Mitigation Act of 2000—established pre-disaster mitigation program
- D. **Expectations**
Four or five total meetings before February 2009
- E. **Project Milestones**
Final Draft and Project Scoping Report due February 7, 2009

III. PARTICIPATION STRATEGY

- A. **Committee Structure**
- 1. **Expand/contract**
The committee includes Parish representatives, various agencies, drainage districts, etc. A full committee list can be viewed on the attached sign-in sheet.
 - 2. **Steering committee***
The steering committee's members will consist of the Parish President, the mayors from each municipality, the OEP Director, drainage representatives, the Director of Public Works, the Sheriff, a representative of the Fire Districts, the Chairman of the Parish Council, and others. The steering committee's members will be confirmed in Meeting No. 2.
 - 3. **Meeting Frequency/Location**
Total of 4-5 Meetings from July to February, one every 4-8 weeks
- B. **Civic Group Presentations**
Shaw will make 3 civic group presentations before the end of February 2009. Please contact Nicole Buranzon at (225) 987-7373 for more details.
- C. **Concerns, Comments, Questions**
- D. **Other Issues?**

IV. PLAN REVIEW

A. Update Issues

1. **Review and re-identify hazards**—see attached worksheet
The hazards identified by the committee to be included in the plan are as follows: coastal erosion, coastal/tropical storms, drought, dam/levee failure, extreme heat, floods, hurricanes, land subsidence, windstorms, and saltwater intrusion.
2. **Profile hazard events**
Inundation maps of Hurricane Andrew, Tropical Storm Isadore, Hurricane Juan, Hurricane Rita, and Hurricane Katrina were presented to committee members. A map committee will edit the maps at a future date.

B. Existing Goals

The following goals will be confirmed and/or revised in future meetings:

1. **Identify and pursue preventative measures that will reduce future damages from hazards**
2. **Enhance public awareness and understanding of disaster preparedness**
3. **Reduce repetitive flood losses in the parish by pursuing various mitigation measures (acquisitions, elevations, and flood-proofing)**
4. **Facilitate sound development in the parish so as to reduce or eliminate the potential impact of hazards**

V. SCOPING—IDENTIFY AND ANALYZE PROJECTS

The following items will be covered in more detail in future meetings:

A. Identify and Analyze Projects-in-motion

B. Evaluation and Prioritization

1. **STAPLEE method**
 - a. **Social**—Is the mitigation strategy socially acceptable?
 - b. **Technical**—Is the proposed action technically feasible and cost effective? Does it provide the appropriate level of protection?
 - c. **Administrative**—Does the parish have the capability to implement the action? Is the lead agency capable of carrying out oversight of the project?
 - d. **Political**—Is the mitigation action politically acceptable?
 - e. **Legal**—Does the parish have the authority to implement the proposed measure?
 - f. **Economic**—Does the economic base, protected growth and opportunity costs justify the mitigation project?
 - g. **Environmental**—Does the proposed action meet statutory considerations and public desire for sustainable and environmentally healthy communities?

2. Cost-benefit emphasis

All mitigation projects brought to the scoping stage must have a benefit-cost ratio of 1 or higher.

VI. CONCLUSION

A. Meeting Summary

- 1. Purpose, need, and expectation**
- 2. Participation strategy**
- 3. Plan Review**
- 4. Scoping**
- 5. Conclusion**

B. Schedule/Locate Next Meeting

The next meeting will be in 4-8 weeks in the Lockport Council Meeting Room

C. Adjourn

Attachment c1-4.1E
Meeting 1—PowerPoint Presentation Slides



Lafourche Parish Hazard Mitigation Plan Update
 Committee Meeting #1
 Tuesday, July 29, 2008

PRESENTATION AGENDA

- I. **Introductions and Welcome**
- II. Purpose, Need, and Expectations
- III. Participation Strategy
- IV. Plan Review
- V. Scoping
- VI. Conclusion

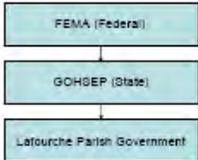
WELCOME

- Attendance
- Introductions
- Reason for Being Asked to Join Committee



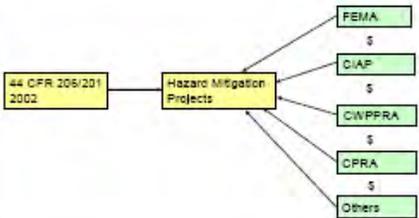


PROCESS



No Local Match!

FUNDING SOURCES




SECTION II: PURPOSE, NEED, AND EXPECTATIONS

- I. Introductions and Welcome
- II. **Purpose, Need, and Expectations**
- III. Participation Strategy
- IV. Plan Review
- V. Scoping
- VI. Conclusion

Purpose, Need, and Expectations: WHAT IS HAZARD MITIGATION PLANNING?

- **Hazard Mitigation**—sustained actions taken to reduce or eliminate long-term risks from natural hazards and their effects

MITIGATION = PREVENTION



Purpose, Need, and Expectations: DEFINITIONS

- **Hazard**—a source of potential danger
- **Vulnerability**—Degree of exposure or susceptibility to damage of an asset
- **Vulnerability Assessment**—The extent of damage that may result from a hazard event of a given intensity (50, 100 yr. flood; Cat. 1, 2, ...5 hurricane)
- **Risk**—The estimated impact that a hazard would have on people, services, facilities, and structures—quantifiable
- **Risk Assessment**—Process of measuring the potential loss of life, personal injury, economic injury, and property damage

Purpose, Need, and Expectations: RISK ASSESSMENT METHODOLOGY



PARTICIPATION STRATEGY

Participating Agencies:

Acadian Ambulance	Lafourche Parish Government
Chamber of Commerce	Nicholls State University
City of Thibodaux	North Lafourche Conservancy Levee and Drainage District
Drainage Districts	Police Departments
Fire Departments	Sheriff
Greater Lafourche Port Commission	South Lafourche Levee District
Louisiana State Police	St. Anne General Hospital
Lady of the Sea General Hospital	Thibodaux Regional Medical Center
Lafourche Ambulance	Town of Golden Meadow
Lafourche Assessor	Town of Lakeport
Lafourche Basin Levee District	

...and others

Purpose, Need, and Expectations: WHY **UPDATE** HAZARD MITIGATION PLAN?

- Revised FEMA Approach
 - Planning
 - Scoping
- Additional Issues
 - Incorporate Katrina and Rita Data
 - Address levee failure in Risk Assessment
 - Utilize New Advisory Base Flood Elevations (ABFEs)
 - Address Projects Implemented Since 2006
 - Coastal Wetland Planning, Protection, Restoration Act (CWPPRA)
 - Coastal Impact Assistance Program (CIAP)
 - Coastal Protection Restoration Act (CPRA)
 - Louisiana State Hazard Mitigation Plan
 - Louisiana OpenCoast Regional Plan
 - Identify New Projects

Things Change!

Purpose, Need, and Expectations:
ORIGINS

Past: Less Coordinated

- Federal legislation funded disaster relief, recovery, and some mitigation planning

•2000: Coordinated

- Disaster Mitigation Act of 2000 (DMA 2000)
- Establishes a pre-disaster hazard mitigation program

•Present (Post-Katrina/Rita): Coordinated

- Hazard Mitigation Plan Updates
- Parishes must have approved HMP's to be eligible for Future HMGP Funding (Construction \$s)



Purpose, Need, and Expectations:
PROJECT TIMELINE

- Grant Awarded—February 1, 2008
- Deadline—February 1, 2009
- Five Meetings between July and February (1 every 4-6 weeks)
 - Meeting 1—General Program Overview
 - Meeting 2—Data Inventory, Map Presentation
 - Meeting 3—Risk Assessment and Loss Estimates
 - Meeting 4—Project Prioritization
 - Meeting 5—Draft Plan Review

SECTION III: PARTICIPATION STRATEGY

- I. Introductions and Welcome
- II. Purpose, Need, and Expectations
- III. **Participation Strategy**
- IV. Plan Review
- V. Scoping
- VI. Conclusion

PARTICIPATION STRATEGY CONTINUED

- Committee Structure
 1. Expand/Contract
 2. Steering Committee*
 3. Meeting Location/Frequency?
- Civic Group Presentations
- Concerns, Comments, Questions
- Other Issues?

Purpose, Need, and Expectations:
WHY HAZARD MITIGATION PLANNING?

- Establish vision and mission
- Establish common goals
- Incorporate the "big picture"
- **Bring many stakeholders together**
- Establish community connectivity... coordination and communications
- Look at resource allocation (time, money, etc.)
- Ensure ability to implement, monitor, evaluate, and modify

SECTION IV: PLAN REVIEW

- I. Introductions and Welcome
- II. Purpose, Need, and Expectations
- III. Participation Strategy
- IV. **Plan Review**
- V. Scoping
- VI. Conclusion

Risk Assessment: IDENTIFY HAZARDS

- Simply identify what hazards might affect the community
- Narrow the list to hazards that are most likely to impact
- Keep records of information gathered
 - > News papers and other unofficial accounts
 - > Federal and state data base info
 - > Community expert and parish/municipal data
 - > Etc.

Parish/ward #	Maple Bay Station	Area
1	1	1
2	2	2
3	3	3
4	4	4
5	5	5
6	6	6
7	7	7
8	8	8
9	9	9
10	10	10
11	11	11
12	12	12
13	13	13
14	14	14
15	15	15
16	16	16
17	17	17
18	18	18
19	19	19
20	20	20
21	21	21
22	22	22
23	23	23
24	24	24
25	25	25
26	26	26
27	27	27
28	28	28
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31	31	31
32	32	32
33	33	33
34	34	34
35	35	35
36	36	36
37	37	37
38	38	38
39	39	39
40	40	40
41	41	41
42	42	42
43	43	43
44	44	44
45	45	45
46	46	46
47	47	47
48	48	48
49	49	49
50	50	50

Risk Assessment: PROFILE HAZARD EVENTS

- Obtain and create base maps
- Obtain hazard event profile information
- Record the hazard event profile information

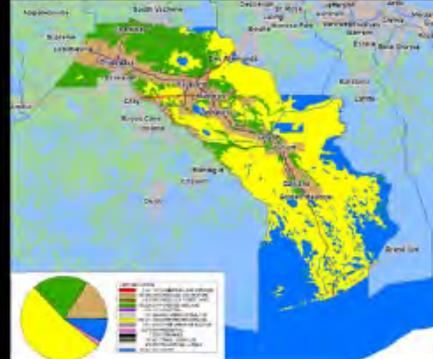
Current Plan:

- Hurricane Betsy
- Hurricane Carmen
- Hurricane Juan
- Hurricane Andrew
- Tropical Storm Frances
- Hurricane Georges
- Tropical Storm Allison
- Tropical Storm Isidore
- Hurricane Lili

Plan Update:

- Hurricane Katrina
- Hurricane Rita
- Assume Levee Failure

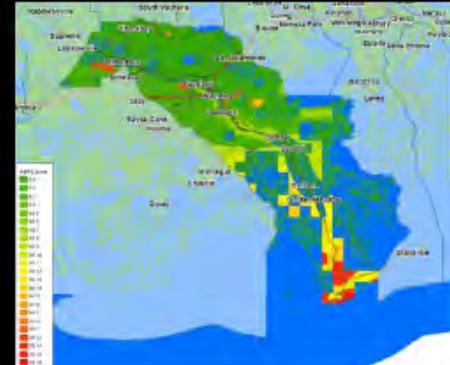
Land Use Map

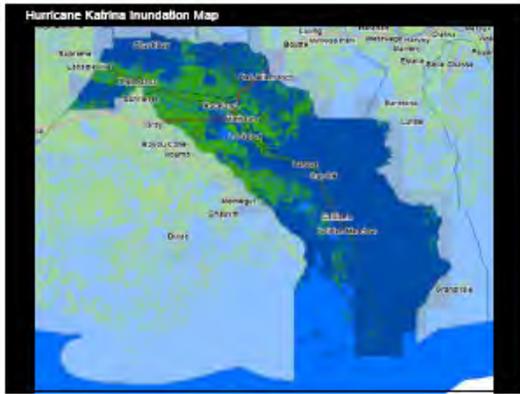


FEMA Flood Map



ABFE Map





Plan Review:
EXISTING GOALS

1. Identify and pursue preventative measures that will reduce future damages from hazards
2. Enhance public awareness and understanding of disaster preparedness
3. Reduce repetitive flood losses in the parish
4. Facilitate sound development to reduce or eliminate the potential impact of hazards

SECTION V: SCOPING

- I. Introductions and Welcome
- II. Purpose, Need, and Expectations
- III. Participation Strategy
- IV. Plan Review
- V. **Scoping**
- VI. Conclusion

FEMA HAZARD MITIGATION GRANT PROGRAM (HMGP)

Types
of
Eligible Hazard Mitigation Projects

ELIGIBLE HAZARD MITIGATION PROJECT TYPES

- Hardening or Retrofitting of Critical Facilities




ELIGIBLE HAZARD MITIGATION PROJECT TYPES

- Drainage: Improvements to Existing Facilities



ELIGIBLE HAZARD MITIGATION PROJECT TYPES

- Elevation



ELIGIBLE HAZARD MITIGATION PROJECT TYPES

- Safe Rooms
- 5% Initiatives (public education, warning systems, generators, etc.)



FUNDING

Mitigation funding levels have varied...

- Pre-Katrina/Rita: GOHSEP Funding Target = \$35-40M per year
- Post-Katrina/Rita: HMGP = \$1.5B to affected areas
- Future funding of Lafourche's Projects: ? (Function of Next Disaster Event)

...but funding has been available virtually every year

Source: GOHSEP STAPLEE Training
May 17, 2007

FUNDING SOURCES

HMGP	PDM	FMA
<ul style="list-style-type: none"> *Acquisition *Elevation *Mitigation Reconstruction *Hardening of Critical Facilities *Drainage Improvements *Wet Flood-proofing *Dry Flood-proofing *Community Shelters *Safe Rooms 	<ul style="list-style-type: none"> *Acquisition *Elevation *Hardening of Critical Facilities *Wet Flood-proofing *Dry Flood-proofing *Community Shelters *Safe Rooms 	<ul style="list-style-type: none"> *Acquisition *Elevation *Hardening of Critical Facilities *Wet Flood-proofing *Dry Flood-proofing

PROJECT PRIORITIZATION

STAPLEE CRITERIA

- Social
- Technical
- Administrative
- Political
- Legal
- Economic
- Environmental

CONCLUSION

- I. Meeting Summary
 - A. Purpose, Need, and Expectations
 - B. Participation Strategy
 - C. Plan Review
 - D. Scoping
 - E. Conclusion**
- II. Schedule/Locate Next Meeting
- III. Adjourn

CONTACT INFORMATION

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225-987-7512
lucien.cutrera@shawgrp.com

Nicole M. Buranzon
225-987-7373
nicole.buranzon@shawgrp.com

**Attachment c1-4.2
Map Committee Meeting 1—Sign-In Sheet**

**Lafourche Parish Hazard Mitigation Plan Update
Map Committee Meeting
Thursday, October 23, 2008**

Signature	Last Name	First Name	Title	Agency
	Boudreaux	Chris	OEP Director	Lafourche Parish Government
	Bourgeois	Glenn "T-Can"	Area Supervisor -- DPW	Lafourche Parish Government
	Caillouet	Gretchen	Grants and Economic Development Director	Lafourche Parish Government
	Champagne	Richard	Mayor	Town of Lockport
	Curole	Windell	Executive Director	South Lafourche Levee District
	Duet	Darla	Floodplain Manager	Lafourche Parish Government
	Leonard	Jerry	Councilman	Town of Lockport
	Randolph	Charlotte	Parish President	Lafourche Parish Government
	Robichaux	Ronnie	Director of Public Works	Lafourche Parish Government
	Rogers	Craig	Councilman	Town of Lockport
	Benoit	Eric	ASST OEP Director	L.P.G.
	Washington	Gary	Area Supervisor - North	L.P.G. → 716-0335 Mick ^{officer}

Add Louis Brasseur

**Attachment c1-4.3
Map Committee Meeting 2—Sign-In Sheet**

**Lafourche Parish Hazard Mitigation Plan Update
Map Committee Meeting
Wednesday, November 5, 2008**

Signature	Last Name	First Name	Title	Agency
	Benoit	Eric	OEP Executive Assistant	Lafourche Parish Government
	Boudreaux	Chris	OEP Director	Lafourche Parish Government
<i>Glenn C. Byrnie</i>	Bourgeois	Glenn "T-Can"	Area Supervisor -- DPW	Lafourche Parish Government
	Broussard	Louis	Area Supervisor -- DPW	Lafourche Parish Government
	Caillouet	Gretchen	Grants and Economic Development Director	Lafourche Parish Government
<i>R.P. Champagne</i>	Champagne	Richard	Mayor	Town of Lockport
<i>Windell A. Curle</i>	Curle	Windell	Executive Director	South Lafourche Levee District
<i>Daria Duet</i>	Duet	Daria	Floodplain Manager	Lafourche Parish Government
	Leonard	Jerry	Councilman	Town of Lockport
	Randolph	Charlotte	Parish President	Lafourche Parish Government
	Robichaux	Ronnie	Director of Public Works	Lafourche Parish Government
	Rogers	Craig	Councilman	Town of Lockport
<i>Gary Washington</i>	Washington	Gary	Area Supervisor -- DPW	Lafourche Parish Government

Attachment c1-4.4A
Meeting 2—Advertisement

**Public Notice
Meeting Announcement
Lafourche Parish Hazard Mitigation Plan Update**

Lafourche Parish Government is updating the parish's Hazard Mitigation Plan. The purpose of the plan update is to identify and pursue preventative measures that will reduce future damages from natural hazards. To continue the plan update, the Lafourche Parish Hazard Mitigation Committee will review risk assessments and a map inventory, as well as discuss potential mitigation projects. The public is encouraged to attend this meeting.

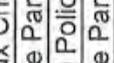
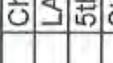
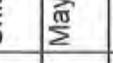
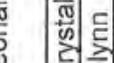
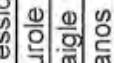
**Wednesday, December 17, 2008, 9:00AM
Town of Lockport Council Meeting Room
710 Church Street
Lockport, Louisiana 70374**

Please direct questions about the meeting to Nicole Buranzon, Shaw Environmental & Infrastructure, Inc. at (225) 987-7373.

Publication: December 4, 2008

**Attachment c1-4.4B
Meeting 2—Sign-In Sheets**

**Lafourche Parish Hazard Mitigation Plan Update Committee
Sign-in Sheet
Wednesday, December 17, 2008**

Signature	Last Name	First Name	Title	Agency
	Adams	Ronald	President	North Lafourche Conservation Levee and Drainage District
	Adams	Andrew	Fire Chief	St. John Vol. Fire Dept
	Benoit	Kathy	President/CEO	Thibodaux Chamber of Commerce
	Benoit	Eric	Assistant OEP Director	Lafourche Parish Government
	Blanchard	Richard	Lt.	La. State Police Troop C.
	Boudreaux	Chris	OEP Director	Lafourche Parish Government
	Boudreaux	Chris	Fire Chief	Chackbay Vol. Fire Dept
	Boulet	Henri	Executive Director	LA 1 Coalition
	Bourgeois	Raoul, Jr.	President	5th Ward Gravity Drainage District #5
	Bourgeois	Milton	Administrator	St. Anne General Hospital
	Bourgeois	Glenn	DPW Area Supervisor	Lafourche Parish Government
	Bouziga	Joey	Mayor	Town of Golden Meadow
	Caillouet	Charles	Mayor	City of Thibodaux
	Callais	Jon	Chief	Greater Lafourche Port Commission - Harbor Police
	Champagne	Richard	Mayor	Town of Lockport
	Chauvin	Leonard	Engineer	North Lafourche Conservation Levee and Drainage District
	Chiasson	Crystal	Parish Administrator	Lafourche Parish Government
	Comeaux	Glynn	Fire Chief	Lafourche Fire District #1
	Cressionie	Spence	Fire Chief	Vacherie/Gheens Vol Fire Dept
	Curle	Windell	Executive Director	South Lafourche Levee District
	Daigle	Brady	Assistant Director	Lafourche Ambulance
	Danos	Jerome	Solid Waste Manager	Lafourche Parish Government
	Davenport	John	Plant Operations	Lady of the Sea General Hospital

Signature	Last Name	First Name	Title	Agency
	Davis	Chad	Regional Supervisor	Acadian Ambulance
	Degraevelle	Eric	Director of Safety	Thibodaux Regional Medical Center
	Delatte	Wilton, Sr.	Chairman	Drainage District #6
	Delatte	Michael	Councilman - Dist #2	Lafourche Parish Government
	Doucet	Rodney	Councilman - Dist #8	Lafourche Parish Government
	Duet	Darla	Floodplain Manager	Lafourche Parish Government
	Falgoust	Ted	Director	Greater Lafourche Port Commission
	Fertitta	Joe	Councilman - Dist #4	Lafourche Parish Government
	Gauthreaux	Debbie	Director	Lafourche Ambulance
	George	Kevin	Principal	Thibodaux High School
	Glaspell	Mike		Town of Lockport Police Dept
	Gouaux	Philip	Councilman - Dist #7	Lafourche Parish Government
	Guidry	Albert	Chairman	Drainage District #1
	Guidry	Freddy	Fire Chief	Lafourche Fire District #3
	Hendrix	Kyra	Permits Manager	Lafourche Parish Government
	Herbert	Kathy		St. Anne General Hospital
	Himel	Chastity	Finance Director	Lafourche Parish Government
	Hughes	Denise	Community Aciton Director	Lafourche Parish Government
	Jaccuzzo	Craig	Chief	Nicholls State University Police
	Jones	Jerry	Councilman - Dist #1	Lafourche Parish Government
	Kiger	Lin	Executive Director	Chamber of Lafourche
	Kraemer	Kermit	Public Works Director	City of Thibodaux
	Lagarde	Lionel	Chairman of the Board	Chamber of Lafourche
	Ledet	Jimmy	Principal	Central Lafourche High School
	Lorraine	Daniel	Councilman - Dist #9	Lafourche Parish Government
	Louviere	Chel	Chief	Town of Golden Meadow Police
	Maloz	Simone	Executive Director	Restore or Retreat
	Marcel	Kevin	Lt.	La. State Police Troop C.
	Martin	Michael	Tax Assessor	Lafourche Assessor
	Martinez	Val	Fire Chief	Bayou Bouef Vol Fire Dept
	Matherne	Patricia	Planning Manager	Lafourche Parish Government

Signature	Last Name	First Name	Title	Agency
	Matherne	Nicholas	Director of Coastal Zone Management office	Lafourche Parish Government
	Matherne	Brennan	Recreation Manager	Lafourche Parish Government
	Matherne	Matt	Councilman - Dist #5	Lafourche Parish Government
	McMaster	Leland		Grand Isle Police Dept
	Melacon	Craig	Chief	City of Thibodaux Police Dept
<i>Debbie Moore</i>	Moore	Debbie	Permits Office	Lafourche Parish Government
	Naquin	Mike	Fire Chief	Thibodaux Vol. Fire Dept.
	Naquin	Jarrod	Fire Chief	Lafourche Crossing 308 Fire Dept
	Parks	Harvey, Jr.	Fire Chief	Bayou Blue Fire Dept
	Plaisance	Carl	Fire Chief	Lockport Vol. Fire Dept
	Randolph	Charlotte	Parish President	Lafourche Parish Government
	Richard	Louis	Councilman - Dist #3	Lafourche Parish Government
	Rink	Craig	Fire Chief	Choctaw Vol. Fire Dept
	Robichaux	Ronnie	Director of Public Works	Lafourche Parish Government
	Rodriguez	Charlene	Director	Lafourche Parish Council on Aging
	Sauder	Jasmine	Executive Director	Larose Civic Center
	Smith	Faye	Risk Manager	Lafourche Parish Government
	Stock	Greg	CEO	Thibodaux Regional Medical Center
	Szush	Joe	Regional Supervisor	Acadian Ambulance
	Toups	Donna	Deputy Director of Public Works	Lafourche Parish Government
	Toups	Lindel	Councilman - Dist #6	Lafourche Parish Government
	Toups	Scott	Captain	City of Thibodaux Police Dept
	Trosclair	Randy	Administrative Program Director	Lafourche Basin Levee District
	Turner	Thomas	Community Service Director	Lafourche Parish Government
	Vedros	Warren	Chief	Town of Lockport Police Dept
<i>Shayla Washington</i>	Washington	Gary	DPW Area Supervisor	Lafourche Parish Government
	Webre	Craig	Sheriff	Lafourche Parish Sheriff

Attachment c1-4.4C
Meeting 2—Meeting Agenda

LAFOURCHE PARISH HAZARD MITIGATION PLAN UPDATE
SECOND MEETING AGENDA
December 17, 2008

I. WELCOME AND INTRODUCTIONS

II. SUMMARY OF FIRST MEETING

- A. General—Program Summary for Benefit of New Attendees
- B. Hazard Events Identified
 - 1. Coastal erosion
 - 2. Coastal (Tropical) storms
 - 3. Drought
 - 4. Dam/Levee Failure
 - 5. Extreme Heat
 - 6. Floods
 - 7. Hurricanes
 - 8. Land Subsidence
 - 9. Windstorms
 - 10. Saltwater Intrusion

III. CONFIRMATION OF STEERING COMMITTEE REPRESENTATION

IV. PARISHWIDE DATA INVENTORY AND MAPS PRESENTATION

- A. Parish Base Map
- B. Drainage Districts Map
- C. Existing Land Use Map
- D. ABFE Map
- E. FEMA Flood Zone Map (100 year)
- F. Levee Alignment and Pump Station Map
- G. Wind Map
- H. Hurricane Juan Inundation Map
- I. Hurricane Andrew Map
- J. Tropical Storm Allison Map
- K. Tropical Storm Isidore Inundation Map
- L. Hurricane Katrina Map
- M. Hurricane Rita Map
- N. Critical Facilities Maps
 - 1. Public Health
 - 2. Police
 - 3. Fire
 - 4. Schools
 - 5. Potable Water
 - 6. Sewer

- O. Repetitive Loss Structures
- P. LIDAR
- Q. Composite Risk

V. HAZARD EVENT PROFILES

- A. Levee Failure
- B. Hurricanes and Coastal Storms

Lafourche Parish Disaster Declarations

Storm Event	Date
Hurricane Betsy	9/10/1965
Severe Storms, Flooding	4/27/1973
Hurricane Carmen	9/23/1974
Drought & Freezing	2/22/1977
Severe Storms, Flooding	4/9/1980
Hurricane Juan	11/1/1985
Flooding, Severe Storm	4/23/1991
Flooding, Severe Storm, Tornado	5/3/1991
Hurricane Andrew	8/26/1992
Severe Storm Flooding	5/10/1995
Tropical Storm Frances and Hurricane Georges	9/23/1998
Tropical Storm Allison	6/11/2001
Tropical Storm Isidore	9/27/2002
Hurricane Lili	10/3/2002
Hurricane Ivan	9/15/2004
Tropical Storm Cindy	8/23/2005
Hurricane Katrina	8/27/2005
Hurricane Rita	9/21/2005

* Benchmark Storms Highlighted

- C. Flooding
 - 1. Effects of hurricane Katrina
 - 2. Effects of hurricane Rita
 - 3. Other major flood events

VI. RISK ASSESSMENTS

- A. Flood Risk Assessment Maps—Maps used in determining vulnerable facilities
- B. Inventory Assets

VII. DISCUSSION OF CURRENT PLANS

- A. Louisiana State Hazard Mitigation Plan, April 2008, Section 5
 - 1. **Flood—high hazard ranking**
 - 2. **High wind (hurricane)—high hazard ranking**
 - 3. **High wind (tornado)—medium hazard ranking**
 - 4. Ice storm—low hazard ranking
 - 5. **Storm surge—medium hazard ranking**
 - 6. Subsidence (land loss)—high hazard ranking
 - 7. Wildfire—low hazard ranking
 - 8. **Levee failure—low hazard ranking**
 - 9. Hazardous material incidents—high hazard ranking
- B. Louisiana’s Comprehensive Master Plan for a Sustainable Coast (CPRA), CWPPRA, and CIAP
- C. Current HMP Projects (2006)

VIII. PROJECT IDENTIFICATION, EVALUATION, AND PRIORITIZATION

- A. Discussion of Project Identification
- B. Discussion of Evaluation and Prioritization—STAPLEE Method

IX. DETERMINE MITIGATION STRATEGIES

- A. Review/Revise Current Mitigation Goals and Objectives
 - 1. Identify and pursue preventative measures that will reduce future damages from hazards
 - 2. Enhance public awareness and understanding of disaster preparedness
 - 3. Reduce repetitive losses
 - 4. Facilitate sound development to reduce or eliminate the potential impact of hazards
- B. Review Types of Mitigation Projects
- C. Review Preliminary Project List
- D. Discuss New or Additional Projects Based on Risk Assessments and Loss Estimates

X. CONCLUSION AND DISCUSSION OF NEXT PHASE

- A. Finalize Project List
- B. Identify and Prioritize Mitigation Measures (Initiate STAPLEE)
- C. Develop Implementation Strategy
- D. Begin Scoping Projects

Attachment c1-4.4D
Meeting 2—Meeting Agenda with Summary Meeting Notes

LAFOURCHE PARISH HAZARD MITIGATION PLAN UPDATE
SECOND MEETING AGENDA with NOTES
December 17, 2008

I. WELCOME AND INTRODUCTIONS

- A. **Attendance**—See attached sign in sheet
- B. **Introductions**—Consultant Staff, FEMA/GOHSEP Reps, Parish Reps, Other

II. SUMMARY OF FIRST MEETING

- A. **General—Program Summary for Benefit of New Attendees**
- B. **Hazard Events Identified**
 - 1. **Coastal erosion**
 - 2. **Coastal (Tropical) storms**
 - 3. **Drought**
 - 4. **Dam/Levee Failure**
 - 5. **Extreme Heat**
 - 6. **Floods**
 - 7. **Hurricanes**
 - 8. **Land Subsidence**
 - 9. **Windstorms**
 - 10. **Saltwater Intrusion**

III. CONFIRMATION OF STEERING COMMITTEE REPRESENTATION

The following members of the steering committee were edited and confirmed by the committee:

- A. Parish OEP
- B. Mayors (or their designees)
- C. Hospital Representatives
- D. Parish President
- E. Parish Grants and Economic Development Director
- F. Parish Floodplain Manager
- G. Parish Council Chairman
- H. Parish DPW
- I. Sheriff

IV. PARISHWIDE DATA INVENTORY AND MAPS PRESENTATION

Maps presented had been confirmed as accurate by the Maps Committee prior to presentation to the HMPU committee. The following maps were presented to the committee for review:

- A. **Parish Base Map**
- B. **Drainage Districts Map**

- C. Existing Land Use Map
- D. ABFE Map
- E. FEMA Flood Zone Map (100 year)
- F. Levee Alignment and Pump Station Map
- G. Wind Map
- H. Hurricane Juan Inundation Map
- I. Hurricane Andrew Map
- J. Tropical Storm Allison Map
- K. Tropical Storm Isidore Inundation Map
- L. Hurricane Katrina Map
- M. Hurricane Rita Map
- N. Critical Facilities Maps
 - 1. Public Health
 - 2. Police
 - 3. Fire
 - 4. Schools
 - 5. Potable Water
 - 6. Sewer
- O. Repetitive Loss Structures
- P. LIDAR
- Q. Composite Risk

V. HAZARD EVENT PROFILES

The following hazard event profiles were discussed and confirmed by the committee:

- A. Levee Failure
- C. Hurricanes and Coastal Storms

Lafourche Parish Disaster Declarations

Storm Event	Date
Hurricane Betsy	9/10/1965
Severe Storms, Flooding	4/27/1973
Hurricane Carmen	9/23/1974
Drought & Freezing	2/22/1977
Severe Storms, Flooding	4/9/1980
Hurricane Juan	11/1/1985
Flooding, Severe Storm	4/23/1991
Flooding, Severe Storm, Tornado	5/3/1991
Hurricane Andrew	8/26/1992
Severe Storm Flooding	5/10/1995
Tropical Storm Frances and Hurricane Georges	9/23/1998
Tropical Storm Allison	6/11/2001
Tropical Storm Isidore	9/27/2002

Hurricane Lili	10/3/2002
Hurricane Ivan	9/15/2004
Tropical Storm Cindy	8/23/2005
Hurricane Katrina	8/27/2005
Hurricane Rita	9/21/2005

* Benchmark Storms Highlighted

- C. **Flooding**
 - 1. **Effects of hurricane Katrina**
 - 2. **Effects of hurricane Rita**
 - 3. **Other major flood events**

VI. RISK ASSESSMENTS

- A. **Flood Risk Assessment Maps—Maps used in determining vulnerable facilities**
- B. **Inventory Assets**

VII. DISCUSSION OF CURRENT PLANS

- D. **Louisiana State Hazard Mitigation Plan, April 2008, Section 5**
Committee members requested to be emailed a copy of the risk assessment portion of the State HMP.
 - 1. **Flood—high hazard ranking**
 - 2. **High wind (hurricane)—high hazard ranking**
 - 3. **High wind (tornado)—medium hazard ranking**
 - 4. **Ice storm—low hazard ranking**
 - 5. **Storm surge—medium hazard ranking**
 - 6. **Subsidence (land loss)—high hazard ranking**
 - 7. **Wildfire—low hazard ranking**
 - 8. **Levee failure—low hazard ranking**
 - 9. **Hazardous material incidents—high hazard ranking**
- E. **Louisiana’s Comprehensive Master Plan for a Sustainable Coast (CPRA), CWPPRA, and CIAP**
- F. **Current HMP Projects (2006)**

VIII. PROJECT IDENTIFICATION, EVALUATION, AND PRIORITIZATION

- A. **Discussion of Project Identification**—projects discussed include critical facility retrofits, generators, drainage projects, and other eligible mitigation activities.
- B. **Discussion of Evaluation and Prioritization—STAPLEE Method**
 - 1. **Social**—Is the mitigation strategy socially acceptable?
 - 2. **Technical**—Is the proposed action technically feasible and cost effective? Does it provide the appropriate level of protection?
 - 3. **Administrative**—Does the parish have the capability to implement the action? Is the lead agency capable of carrying out oversight of the project?

4. Political—Is the mitigation action politically acceptable?
5. Legal—Does the parish have the authority to implement the proposed measure?
6. Economic—Does the economic base, protected growth and opportunity costs justify the mitigation project?
7. Environmental—Does the proposed action meet statutory considerations and public desire for sustainable and environmentally healthy communities?

IX. DETERMINE MITIGATION STRATEGIES

- A. Review/Revise Current Mitigation Goals and Objectives**
 - 1. Identify and pursue preventative measures that will reduce future damages from hazards**
 - 2. Enhance public awareness and understanding of disaster preparedness**
 - 3. Reduce repetitive losses**
 - 4. Facilitate sound development to reduce or eliminate the potential impact of hazards**
- B. Review Types of Mitigation Projects**

Additional projects were discussed and added to the project list.
- C. Review Preliminary Project List**
- D. Discuss New or Additional Projects Based on Risk Assessments and Loss Estimates**

X. CONCLUSION AND DISCUSSION OF NEXT PHASE

- A. Finalize Project List**
- B. Identify and Prioritize Mitigation Measures (Initiate STAPLEE)**
- C. Develop Implementation Strategy**
- D. Begin Scoping Projects**

Attachment c1-4.4E
Meeting 2—PowerPoint Presentation Slides

**Lafourche Parish Hazard
Mitigation Plan Update**
Committee Meeting #2
Wednesday, December 17, 2008

Welcome

- Attendance
- Introductions
- New Members

Presentation Agenda

- I. Welcome & Introductions
- II. Summary of Meeting No. 1
- III. Steering Committee
- IV. Data Inventory and Maps Presentation
- V. Hazard Event Profiles
- VI. Risk Assessments
- VII. Discussion of Current Plans
- VIII. Project Identification, Evaluation, & Prioritization
- IX. Determine Mitigation Strategies
- X. Conclusion

II. Summary of Meeting No. 1
July 29, 2008
Lockport, LA

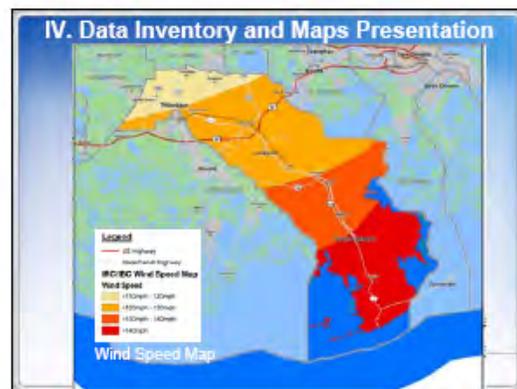
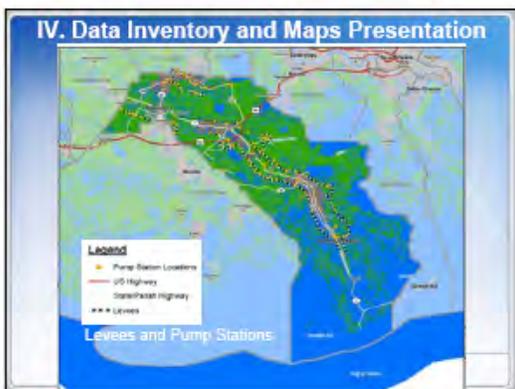
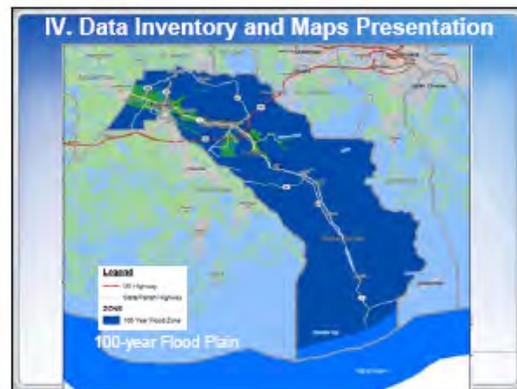
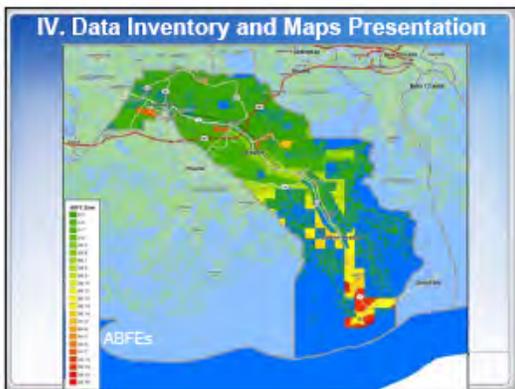
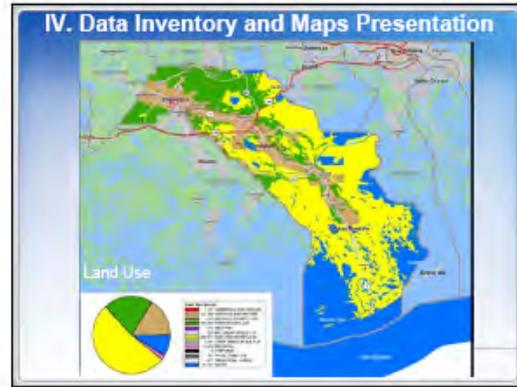
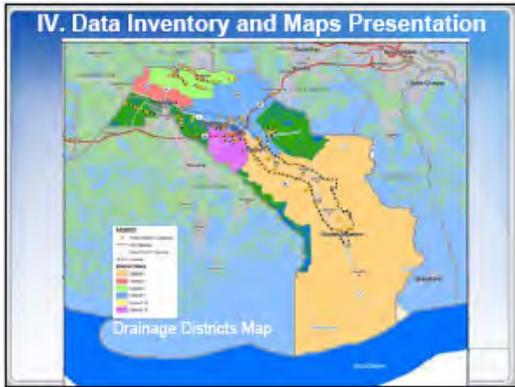
III. Steering Committee

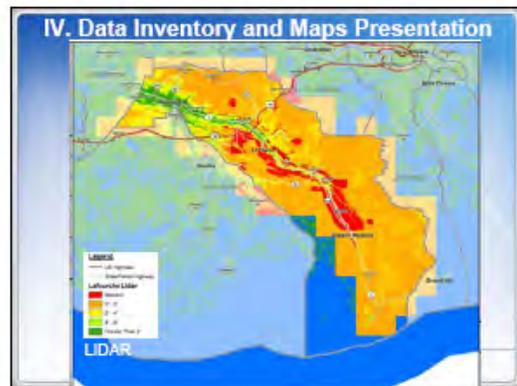
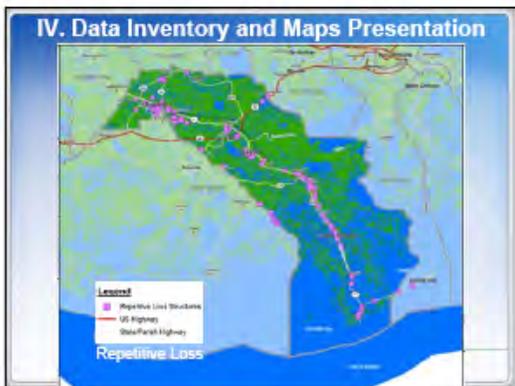
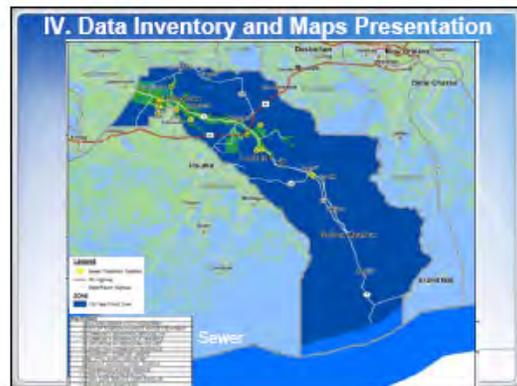
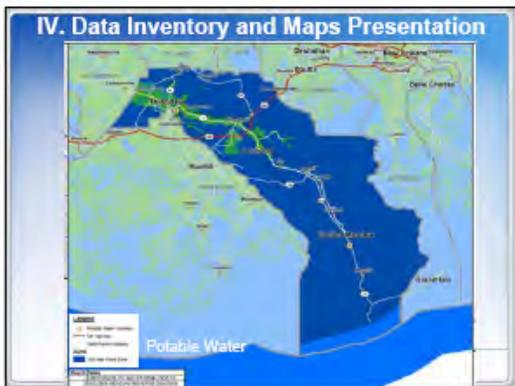
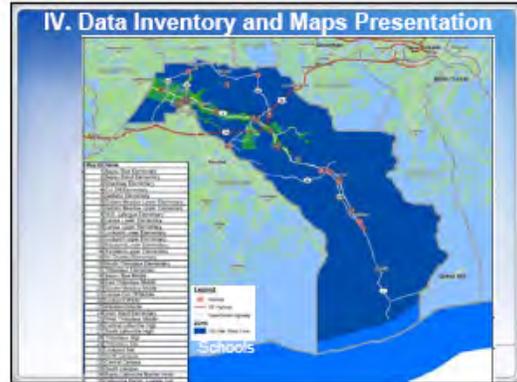
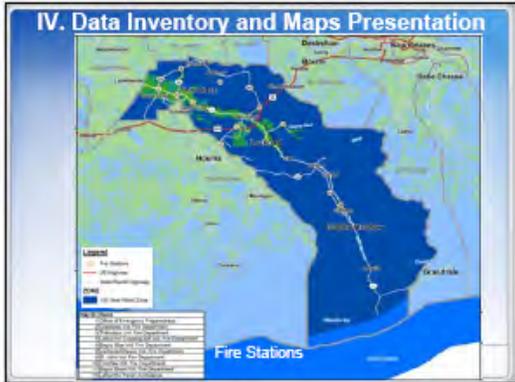
Provides a “sounding board” for ideas/questions.
Confirmation of representatives:

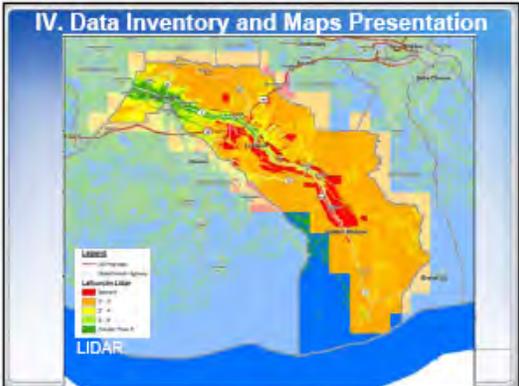
- Parish President
- Parish OHSEP
- Parish Council Chairman
- Drainage Representative
- Sheriff
- Fire Chief
- Parish Engineer
- Medical Representative

IV. Data Inventory and Maps Presentation









V. Hazard Event Profiles

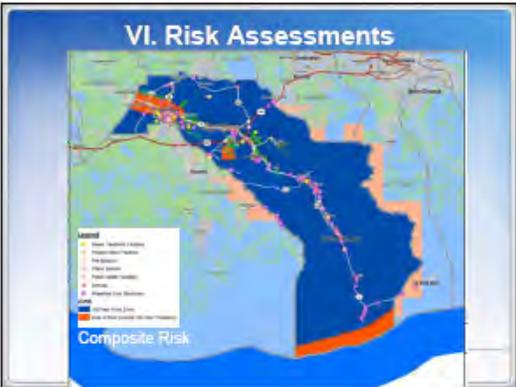
Levee Failure

- Review and discuss responsibilities (federal, parish, city, etc.)
- Does this Hazard Exist?

V. Hazard Event Profiles

Flooding

- Confirm Benchmark Storms
- Effects of Katrina & Rita on the parish
 - Impacts?
 - \$ Damage?
 - Loss of Life?
- Effects of Other Storms



VI. Risk Assessments

Discussion of FEMA Worksheet #3A—Inventory Assets

	Number of Structures			Value of Structures		
	# in Community	# in Hazard Area	% in Hazard Area	\$ in Community	\$ in Hazard Area	% in Hazard Area
Total	88,679	28,338	68%	\$6,783,861,000	\$3,922,212,000	88%

Number of People		
# in Community	# in Hazard Area	% in Hazard Area
89,974	61,217	68%

VI. Risk Assessments

Repetitive Loss Structures

- 310 identified on most recent list provided by GOSHEP
- Total amount of claims by these structures = \$18.2 million
- Average claim amount is \$52,117/structure

VII. Discussion of Current Plans

Louisiana State Hazard Mitigation Plan, April 2008

Have parish officials reviewed and are you in agreement with risk assessments (section 5)?
Focus on:

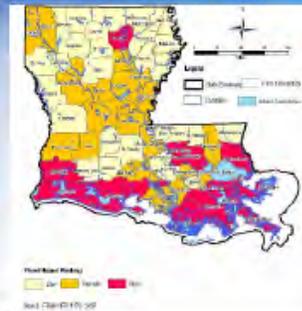
- Flood
- Storm Surge
- High Wind (hurricane)
- Levee Failure

VII. Discussion of Current Plans

Louisiana State Hazard Mitigation Plan, April 2008

Flood

Ranked #5
Average Annual Losses—
\$9.1 Million

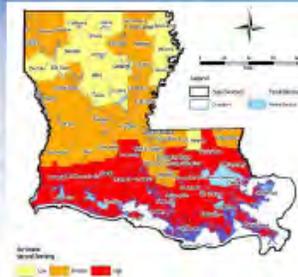


VII. Discussion of Current Plans

Louisiana State Hazard Mitigation Plan, April 2008

High Wind (hurricane)

Ranked High

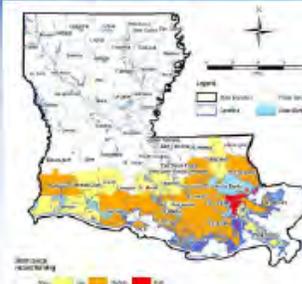


VII. Discussion of Current Plans

Louisiana State Hazard Mitigation Plan, April 2008

Storm Surge

Ranked #18
Average Annual Losses – \$140 Million

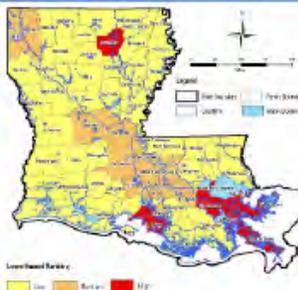


VII. Discussion of Current Plans

Louisiana State Hazard Mitigation Plan, April 2008

Levee Failure

Ranked #4
Population Exposure –
22,657



VIII. Project Identification, Evaluation, & Prioritization

STAPLEE Process (Handout)

- Social
- **Technical**
- Administrative
- Political
- Legal
- **Economic**
- **Environmental/Cultural**

IX. Determine Mitigation Strategies

Review/Revise Current Mitigation Goals and Objectives—

1. Reduce losses to existing and future property due to hazards
2. Protect the health and well-being of the people of Lafourche Parish from the negative effects of hazards
3. Ensure the ability of emergency services providers and facilities to continue operating during hazard events
4. Protect existing public and private infrastructure from damage

IX. Determine Mitigation Strategies

Review of Types of Mitigation Projects:

GOSHEP Training Session No. 1, May 17, 2007

Handout 5B: Hazard Mitigation Project Types

- Acquisition
- Elevation
- Mitigation Reconstruction
- Hardening or Retrofitting of Critical Facilities
- Drainage Improvements
- Wet Floodproofing
- Dry Floodproofing
- Community Shelters
- Safe Rooms
- 5% Initiatives

IX. Determine Mitigation Strategies

Preliminary Project List (handout)

- 114 potential projects identified
 - Grey—not eligible (104)
 - Green—need additional information (9)
 - White—appear to be eligible (1)

Discussion of New or Additional Projects?

X. Conclusions and Discussion of Next Phase

Next Phase.....

- Finalize project list
- Evaluate and prioritize mitigation measures
 - STAPLEE Method
- Develop Implementation Strategy (who, what, when, how)
- Begin Scoping Projects
- Project Complete in December of 2008

**Attachment c1-4.6A
Meeting 3—Advertisement**

PUBLIC NOTICE

The Lafourche Parish Government is updating the parish's Hazard Mitigation Plan. The purpose of the plan update is to identify and pursue preventative measures that will reduce future damages from natural hazards. To continue the plan update, the Lafourche Parish Hazard Mitigation Committee will discuss potential mitigation projects and prioritize the mitigation project list. The public is encouraged to attend this meeting.

Tuesday, March 3, 2009, 10:00AM
Old Wal-Mart Building
4876 HWY 1
Mathews, LA 70375

Please direct questions about the meeting to Nicole Buranzon, Shaw Environmental & Infrastructure, Inc., at (225) 987-7373.

CF05169068

**Attachment c1-4.6B
Meeting 3—Sign-In Sheets**

**Lafourche Parish Hazard Mitigation Plan Update Committee
Sign-in Sheet
Tuesday, March 3, 2009**

Signature	Last Name	First Name	Title	Agency
	Adams	Ronald	President	North Lafourche Conservation Levee and Drainage District
	Adams	Andrew	Fire Chief	St. John Vol. Fire Dept
	Benoit	Kathy	President/CEO	Thibodaux Chamber of Commerce
	Benoit	Eric	Assistant OEP Director	Lafourche Parish Government
	Blanchard	Richard	Lt.	La. State Police Troop C.
	Boudreaux	Chris	OEP Director	Lafourche Parish Government
	Boudreaux	Chris	Fire Chief	Chackbay Vol. Fire Dept
	Boulet	Henri	Executive Director	LA 1 Coalition
	Bourgeois	Raoul, Jr.	President	5th Ward Gravity Drainage District #5
	Bourgeois	Milton	Administrator	St. Anne General Hospital
	Bourgeois	Glenn	DPW Area Supervisor	Lafourche Parish Government
	Bouziga	Joey	Mayor	Town of Golden Meadow
	Caillouet	Charles	Mayor	City of Thibodaux
	Callais	Jon	Chief	Greater Lafourche Port Commission - Harbor Police
	Champagne	Richard	Mayor	Town of Lockport
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	Cressionie	Spence	Fire Chief	Vacherie/Gheens Vol Fire Dept
	Curole	Windell	Executive Director	South Lafourche Levee District
	Daigle	Brady	Assistant Director	Lafourche Ambulance
	Danos	Jerome	Solid Waste Manager	Lafourche Parish Government
	Davenport	John	Plant Operations	Lady of the Sea General Hospital

Signature	Last Name	First Name	Title	Agency
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	Degravelle	Eric	Director of Safety	Thibodaux Regional Medical Center
	Delatte	Wilton, Sr.	Chairman	Drainage District #6
	Delatte	Michael	Councilman - Dist #2	Lafourche Parish Government
	Doucet	Rodney	Councilman - Dist #8	Lafourche Parish Government
	Duet	Darla	Floodplain Manager	Lafourche Parish Government
	Falgoust	Ted	Director	Greater Lafourche Port Commission
	Fertitta	Joe	Councilman - Dist #4	Lafourche Parish Government
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	George	Kevin	Principal	Thibodaux High School
	Giaspell	Mike		Town of Lockport Police Dept
	Gouaux	Philip	Councilman - Dist #7	Lafourche Parish Government
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	Washington	Gary	DPW Area Supervisor	Lafourche Parish Government
	Webre	Craig	Sheriff	Lafourche Parish Sheriff

Attachment c1-4.6C
Meeting 3—Summary Meeting Notes

Lafourche Hazard Mitigation Plan Update Committee
Meeting No. 3 Notes
Tuesday, March 9, 2008

The Lafourche Parish Hazard Mitigation Plan Update Committee held their third open to the public meeting at the Lockport Town Hall in Lockport, Louisiana, on Tuesday, March 9, 2009. The purpose of the meeting was to prioritize the 77 potentially eligible projects by committee consensus. Handouts included the STAPLEE criteria and the list of eligible projects for scoping. The initial project list was also available for review (including eligible and non-eligible projects to be included in the Hazard Mitigation Plan Update).

Each potentially eligible project was evaluated using the STAPLEE criteria, but due to the magnitude of projects, the committee felt it would be a more efficient use of the STAPLEE method to eliminate projects that posed a problem based on the STAPLEE criteria, rather than numerically ranking them individually. No projects were noted to have any issues. All of the 77 projects were feasible based on the STAPLEE criteria.

By consensus, the committee decided to defer parish project's prioritization to Parish President Randolph and DPW Director Ronnie Robichaux, while emailing their personal top priority for consideration. The City of Thibodaux has their own Pilot Planning Grant so their projects will not be scoped under the parish plan. The municipal top priorities are as follows:

Thibodaux

1. Drainage Improvement – Retractable Gates on Culverts that Extend into Bayou Lafourche
2. Drainage Improvement – Culvert Upgrade – South Canal Blvd. at Highway 20
3. Public Safety – Add facilities at 1219 Henry Schuyler Street to be able to maintain functionality during a storm event
4. Drainage Improvement – Berm and Retractable Gates at Veterans/Tiger Drive/Midland/David Bergeron Road Drainage Area
5. Flood Protection – Berm at Acadian Woods Subdivision

Golden Meadow

1. Phase III of Seawall Retrofitting
2. Phase IV of Seawall Retrofitting
3. Drainage Improvement – Jefferson Street Culvert Upgrades
4. Wind Hardening – Golden Meadow Town Hall

Lockport

1. Drainage Improvement – Culvert Upgrades (Catherine Street, Elizabeth Street, Ethel Street, School Street, the main outfall canal from Crescent Avenue to the 40 Arpent Canal, and the 225' of drainage canal between Comeaux Drive and Catherine Street)
2. Wind Hardening – Lockport Town Hall

Attachment c1-4.6D
Meeting 3—Initial Eligible Projects List

**Lafourche Parish Hazard Mitigation Plan Update
List of Potentially Eligible Projects**

Source	No.	Project	Eligible
Coastal Protection and Restoration Authority			
C	2	Raise/Maintain 20 mile section of LA-1 from Golden meadow to Port Fourchon	Potentially
Lafourche Parish Hazard Mitigation Plan (2006)			
E	2	Maintain and inspect drainage ways by removing any obstructions, keeping grass cut, and replacing any inferior culverts specifically along Hwy 1 in Golden Meadow	Potentially
	9	Increase pumping capacity for forced drainage systems associates with hurricane protection	Potentially
	12	Implement a public notification system (sirens, call down system)	5%
	13	Generators -- Sheriff's Office, Water Plants, Communications Infrastructure	5%
	16	Continue Mitigating RL properties	Potentially
	18	Investigate and implement a localized interior drainage project in each RL area	Potentially
Lafourche Parish Department of Public Works			
G	1	West Camelia 10" pump station addition	Potentially
	2	Leighton 48" Pump Station addition	Potentially
	6	Bayou Des Allemands Bulkhead Engineering Study & Recommendations	Potentially
	7	Emerald Park Engineering Drainage Study & Recommendations	Potentially
	8	Laurel Valley Road Engineering, Surveying & Improvement	Potentially
	9	Mary Beth Bridge Repairs - Replace Eroding Bulkhead & Approaches	Potentially
	12	Reviewing Drawings to Bid Out Cyprien Trash Racks	Potentially
	13	Bayou Folse Road Shoulder Repair	Potentially
	14	Raceland Prairie District 1 of 12 Pump Installation	Potentially
	15	Bayou Blue Levee/Pump Station Study	Potentially
	17	Jessie Dufrene Pump Station Rebuilding & Improvement	Potentially
	18	Mathews Canal Digging & Excavation	Potentially
	19	Twin Oaks Drainage Project Proposal	Potentially
	25	Industrial Park Flood Wall - engineering completed by Picciola & Assoc.	Potentially
	26	Larose Pump Station Repairs and Construction	Potentially
	27	20 Arpent Canal East Cut Off Crossing Repair & Replacement	Potentially
	31	Larose /Cut Off Drainage - completion of drainage project behind Larose Cut Off School	Potentially
	32	Galliano Airport Canal Tree Clearing and Reservoir Sweeping	Potentially
34	Serigny Pump Relocation - working on permit application from State Coastal Zone Management	Potentially	
35	Field Office Renovations for Bayou Blue, Chackbay, Thibodaux, Raceland, Lockport,	Potentially	
Pump Station Inventory			
H	1	Lefort - upgrade pump to 30"	Potentially
	2	Pointe Aux Chene - pump upgrade to 24" and redo building	Potentially
	3	Timberland - pump upgrade to 24" and redo building	Potentially
	4	Percy Guidry	Potentially
	5	Point Au Saucisse	Potentially
	6	Yankee Canal - rebuild trash racks	Potentially
	7	Serigney - Relocate to another area	Potentially
	8	Humble - Replace all pumps	Potentially
	9	Ludevine - Replace all pumps	Potentially
	10	Old Valentine - Replace trash racks	Potentially
	11	New Valentine - Replace all pumps	Potentially
	12	T-Bois - Add a 48" pump and replace rakes	Potentially
	13	Nora - Replace all pumps	Potentially
	14	Clothilda - Replace belt drive with gear drive	Potentially
	15	Mc Cloud - Replace rakes and discharge pipe	Potentially
	16	Rita - Replace rakes and building	Potentially
	17	Fantastic - Replace rakes and rebuild	Potentially
	18	Edgar Guidry - Replace rakes	Potentially
	19	Edna - Relocate entire pump station	Potentially
	20	Parr - Relocate entire pump station in conjunction with NLLD	Potentially
	21	Barrios - Totally rebuild	Potentially
	22	Al Robichaux - Extend rakes	Potentially
	23	Larose - refurbish building and replace rakes	Potentially
	24	Home Place - rebuild totally	Potentially
	25	Jess Dufrene - rebuild totally	Potentially
	26	Eunice Allemand - rebuild totally and replace rakes	Potentially
	27	Natural Gas - rebuild totally	Potentially
	28	Raven Wood - rebuild	Potentially
	30	Alidore - replace all	Potentially
	31	Four Point - culverts	Potentially
	32	District #1 of 12 - replace all and add a 48" pump	Potentially
	33	District #2 of 12 - replace all	Potentially
	34	Little Al - rakes	Potentially
	35	Thoroughbred/Supercharge	Potentially
	36	Morvant - replace all	Potentially
	37	West Camelia - replace all, \$25,000 budget in 2008	Potentially
	38	Emerald Park - replace all	Potentially

New Projects			
J	2	Manchestor Manor Drainage (11/13/07 Meeting)	Potentially
	3	North Intracoastal Drainage (11/13/07 Meeting)	Potentially
	4	Twin Oaks (front side) Drainage (11/13/07 Meeting)	Potentially
	5	Industrial Park Bulkhead (seawall -- 11/13/07 Meeting)	Potentially
	6	Bayou Des Allemands Bulkhead -- present seawall/bulkheading bubbles underneath (11/13/07 Meeting)	Potentially
	7	Bayou Blue Levee Project and Pump Station (11/13/07 Meeting)	Potentially
	8	West 140th Drainage Project (11/13/07 Meeting)	Potentially
	9	W. Camellia Pump Station -- Increase Capacity (11/13/07 Meeting)	Potentially
	10	Sugaridge Pump Station (11/13/07 Meeting)	Potentially
	11	Major Culverts/Canals in southern end of parish -- upgrade culverts (11/13/07 Meeting)	Potentially
	12	Pump Station in Raceland near Hwy 182/Hwy 90 intersection (11/13/07 Meeting)	Potentially
	13	Emerald Park (11/13/07 Meeting)	Potentially
	14	EOC/911/Sleeping Quarters -- New or Hardening (11/13/07 Meeting)	Potentially
	15	East 1st, East 2nd, East 3rd Culvert Upgrade	Potentially
	16	Hamilton to Intracoastal (11/26/07 Meeting)	Potentially
	17	LeBlanc Drive Drainage Improvements (Phase I -- Upgrade Culverts) Awarded Grant	Potentially
	18	LeBlanc Drive Drainage Improvements (Phase II -- Upgrade Culverts)	Potentially
	21	Relocation -- Larose Pump Station Road	Potentially
	22	Wind Hardening and Safe Room -- Parish Council Building	Potentially
	23	Phase II of LA 1 -- Road Replacement -- Golden Meadow to Leesville	Potentially
	24	Wind Hardening -- All Parish Pump Stations	Potentially
	27	Safe Houses -- All EMS, Fire, Police North of Hwy 90	Potentially
	29	Elevation of LA 1 from Port Fourchon to Jefferson Parish Line -- Armor Sides and Elevate to ±5'	Potentially
	30	Mitigation of Repetitive Losses	Potentially
	32	Wind Hardening -- AYO Center	Potentially
	34	Wind Hardening -- Lady of the Sea Hospital	Potentially
	35		
	36		
	37		
	38		
	39		
	40		

Potentially Eligible for HMGP funding
 Needs More Information

**Attachment c1-4.6E
Meeting 3—STAPLEE Handout**

STAPLEE Definitions

S	Social	The project poses no negative impact on the interests of the community or puts any one neighborhood or group at a disadvantage.
T	Technical	The project provides an effective long-term solution to a problem and does not create more problems than it solves.
A	Administrative	The jurisdiction has the adequate staff and funding (25% non-federal match) to implement the project and also can provide the necessary maintenance.
P	Political	The project has adequate political and public support (or lack of opposition).
L	Legal	The jurisdiction has the authority to implement the project and the proper laws, ordinances, and resolutions are in place to do so.
E	Environmental	The project will not adversely affect the environment and will comply with environmental laws and/or historical regulations.
E	Economic	The cost of the project seems reasonable and will not place an unwanted burden on the tax base or local economy.

**Attachment c1-4.8
Civic Meeting 2—Tribal Council Meeting**



**Tribal Council Meeting
Council on Aging
May 9, 2009
Houma, LA
10:00 a.m.**

AGENDA

1. Call to Order
2. Prayer
3. Pledge of Allegiance
4. Swearing In
5. Roll Call
6. Reading and Approval of Minutes
7. Treasurer's Report
8. Committee Reports
9. District Reports
10. Old Business:
 - a. *Hurricane Relief*
 - b. *Federal Recognition Update*
 - c. *Membership Reinstatement*
 - d. *Public Comment*
10. New Business
 - a. *John Boatman, NRCS*
 - b. *Chuck Perrodin, HMGP*
 - c. *Nicole Buranzon, Shaw Environmental & Infrastructure Group*
 - d. *Upcoming Events*
 - e. *Public Comment*
11. Set Date, Place and Time for Next Meeting:

July 11th, 2009, Buras, 10:00 am
12. Adjournment

Attachment c1-4.9
Civic Meeting 3—Lafourche Planning Commission

LAFOURCHE PARISH PLANNING COMMISSION
MEETING AGENDA
MAY 28, 2009
6:00 P.M.
OLD WALMART BUILDING – MATHEWS, LA 70375

REGULAR SESSION

1. CALL TO ORDER

2. PLEDGE OF ALLEGIANCE

3. ROLL CALL

4. Presentation on Lafourche Parish Hazard Mitigation Plan Update.
(Nicole Buranzon, Shaw Group)

5. MINUTES

- A. Acceptance of the April 30, 2009, meeting minutes of the Lafourche Parish Planning Commission.

6. NEW BUSINESS

A. Public Subdivisions

1. A Public Hearing to receive comments on **Survey showing division of property belonging to Horace A. Savoie into Lots HS-1 & HS-2.**
Applicant: Leonard Chauvin P.E., P.L.S., Inc.
 - 1a. **Survey showing division of property belonging to Horace A. Savoie into Lots HS-1 & HS-2**, creating two (2) lots. The proposed lots are located on the south side of Louisiana Highway 1 approximately \pm 600 feet northwest of Kieff Street and approximately \pm 545 feet southeast of the intersection of Edgar Lane, Lockport, LA. Located in Sections 56 & 99, T17S-R20E, Lafourche Parish, Louisiana. Action to be taken: Sketch/Final Plat Approval – Staff Recommendation.
2. A Public Hearing to receive comments on **La Tour Subdivision, Phase 1.**
Applicant: J. Wayne Plaisance, Inc.
 - 2a. **La Tour Subdivision, Phase 1**, creating forty-eight (48) lots. The proposed lots are located on the south side of Farm to Market Road approximately \pm 1,600 feet east of the intersection of LA Highway 308 to Farm to Market Road, Mathews, LA. Located in Sections 8, 9, 10 & 11, T16S-R19E, Lafourche Parish, Louisiana. Action to be taken: Sketch/Preliminary/Final Plat Approval – Staff Recommendation.

7. OTHER MATTERS

A. Ratification of Family Subdivisions

1. Jimmy Badeaux Family Partition #2– two (2) lots.

B. Planning Department's Report

C. Review of Status Report

D. Secretary/Treasurer Report

8. ADJOURNMENT

**Attachment c1-4.10A
Meeting 4—Advertisement**

Game 6 — Game 4 winner vs. Game 5 win

**Public Notice
Meeting Announcement
Lafourche Parish Hazard Mitigation Plan Update**

The Lafourche Parish Government is updating the parish's Hazard Mitigation Plan. The purpose of the plan update is to identify and pursue preventative measures that will reduce future damages from natural hazards. To complete planning process, the Lafourche Parish Hazard Mitigation Committee will review the plan update. The public is encouraged to attend this meeting.

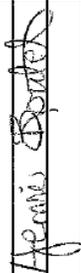
**Wednesday, June 9, 2010, 10:00AM
Town of Lockport Council Meeting Room
710 Church Street
Lockport, Louisiana 70374**

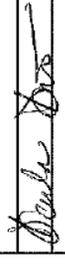
**Please direct questions about the meeting to Nicole Buranzon,
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**Attachment c1-4.10B
Meeting 4—Sign-in Sheets**

**Lafourche Parish Hazard Mitigation Plan Update Committee
Sign-in Sheet**

Wednesday, June 9, 2010

Signature	Last Name	First Name	Title	Agency
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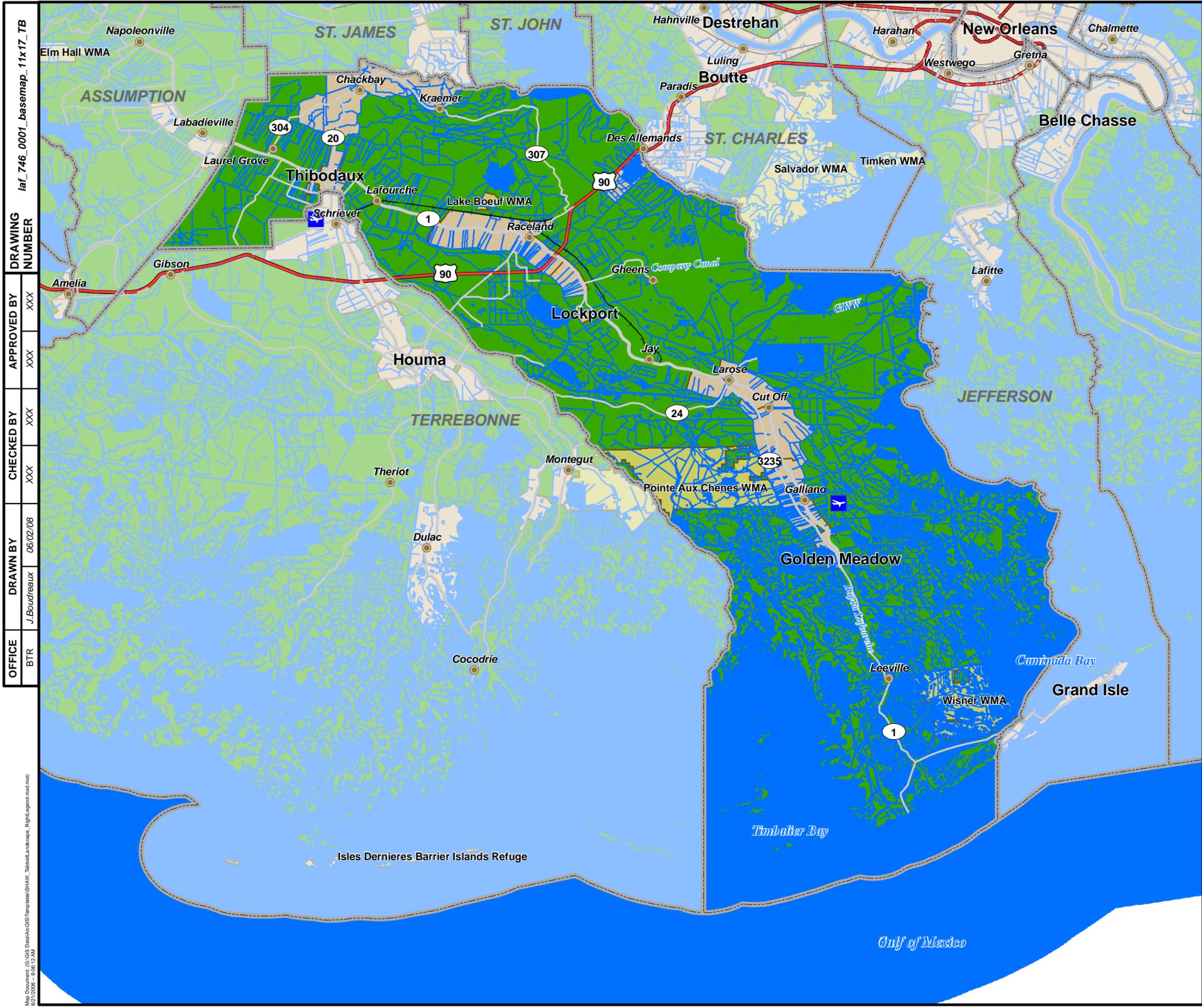
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Attachment c1-4.10C
Meeting 4—Summary Meeting Notes

Lafourche Hazard Mitigation Plan Update Committee
Meeting No. 4 Notes
Wednesday, June 9, 2010

The Lafourche Parish Hazard Mitigation Plan Update Committee held their fourth open to the public meeting at the Lockport Town Hall Council Meeting Room in Lockport, Louisiana, on Wednesday, June 9, 2010. The purpose of the meeting was to review the draft plan update. The final project list was available for review by meeting attendees.

Topics discussed include the scoping selection process, plan update changes, and timeline for implementation. The draft hazard mitigation plan update and project scoping summary report were both available for review. No additional comments were received by committee members. Ideas discussed included specific projects currently needing funding.



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Legend

- Communities
- Airports
- US Highway
- State/Parish Highway
- Wildlife Management Areas and Refuges
- Municipalities



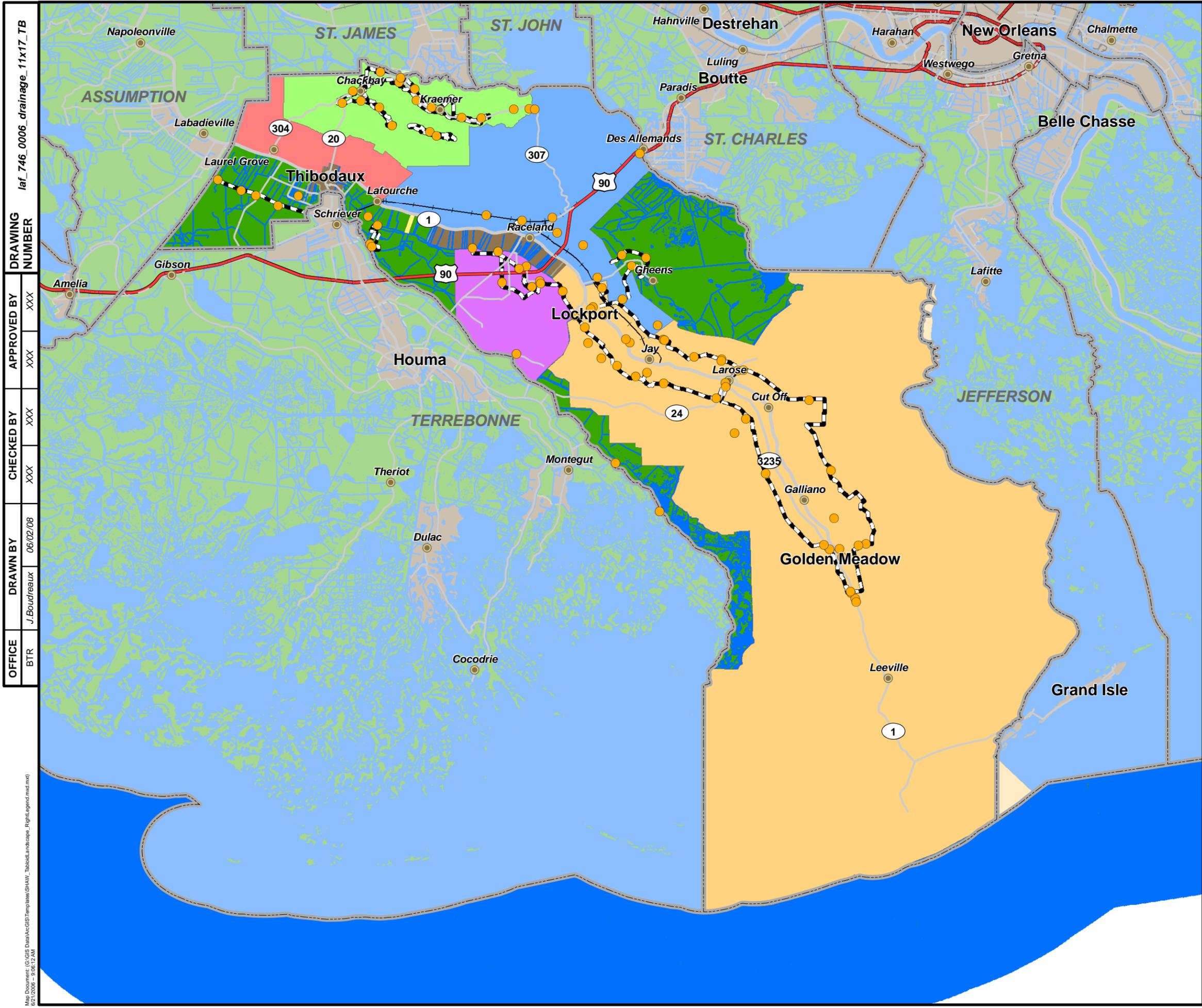
LAFOURCHE PARISH
HAZARD MITIGATION PLAN UPDATE

ATTACHMENT c2-1

BASE MAP

LAFOURCHE PARISH HAZARD MITIGATION PLAN
LAFOURCHE PARISH, LOUISIANA

Map Document: G:\GIS Data\ArcGIS\Templates\SHAW_Template.mxd
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Legend

- Pump Station Locations
 - US Highway
 - State/Parish Highway
 - Levees
- District Name**
- District 1
 - District 5
 - District 6
 - District 7
 - District 13
 - District 12

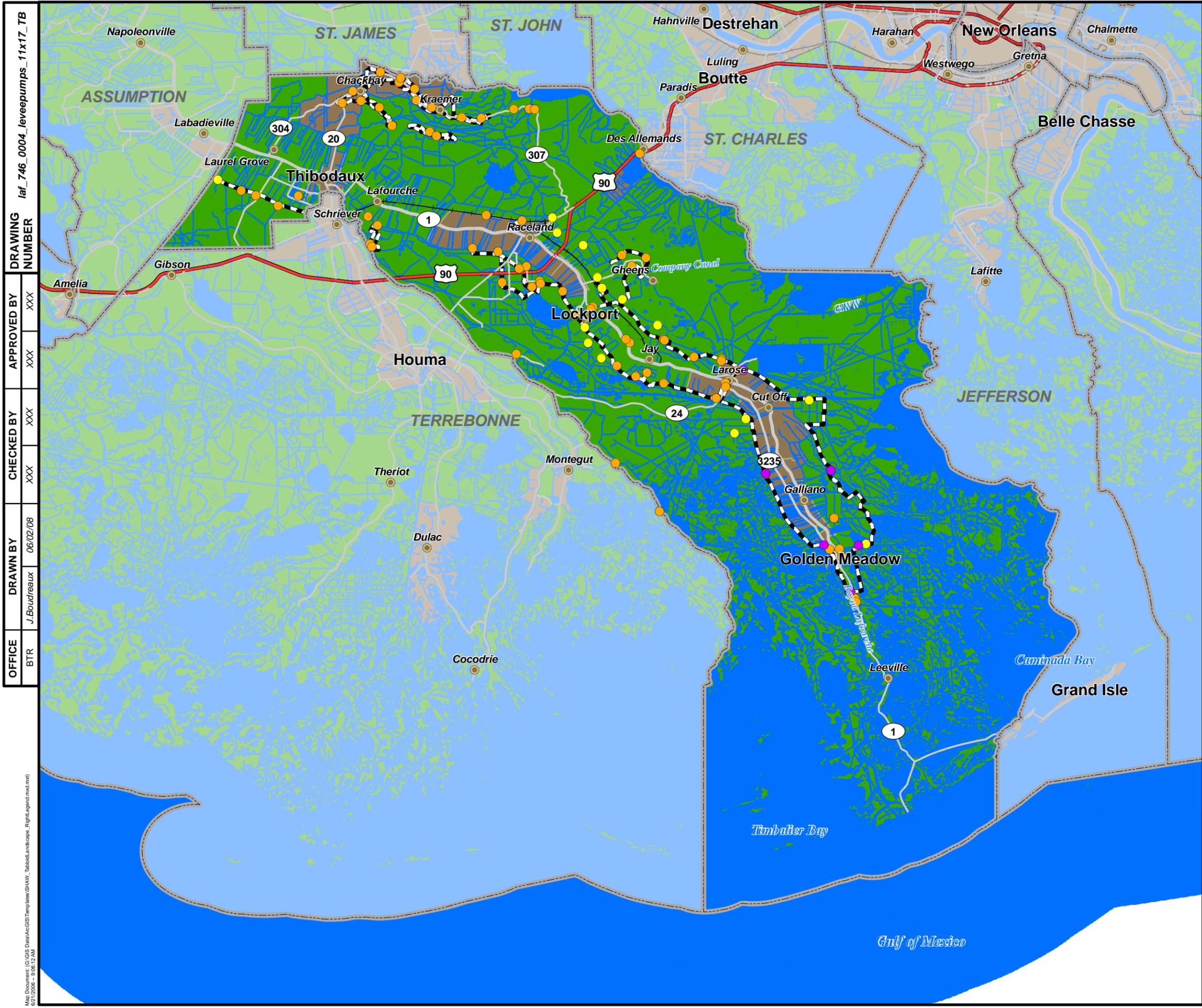


LAFOURCHE PARISH
HAZARD MITIGATION PLAN UPDATE

**ATTACHMENT c2-2
DRAINAGE DISTRICTS MAP**

LAFOURCHE PARISH HAZARD MITIGATION PLAN
LAFOURCHE PARISH, LOUISIANA

Map Document: G:\GIS Data\ArcGIS\Templates\SHAW_Template.aprx
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Legend

- Pump Station Locations Ownership**
- Parish
 - Private
 - South Lafourche Levee District
 - US Highway
 - State/Parish Highway
 - Levees



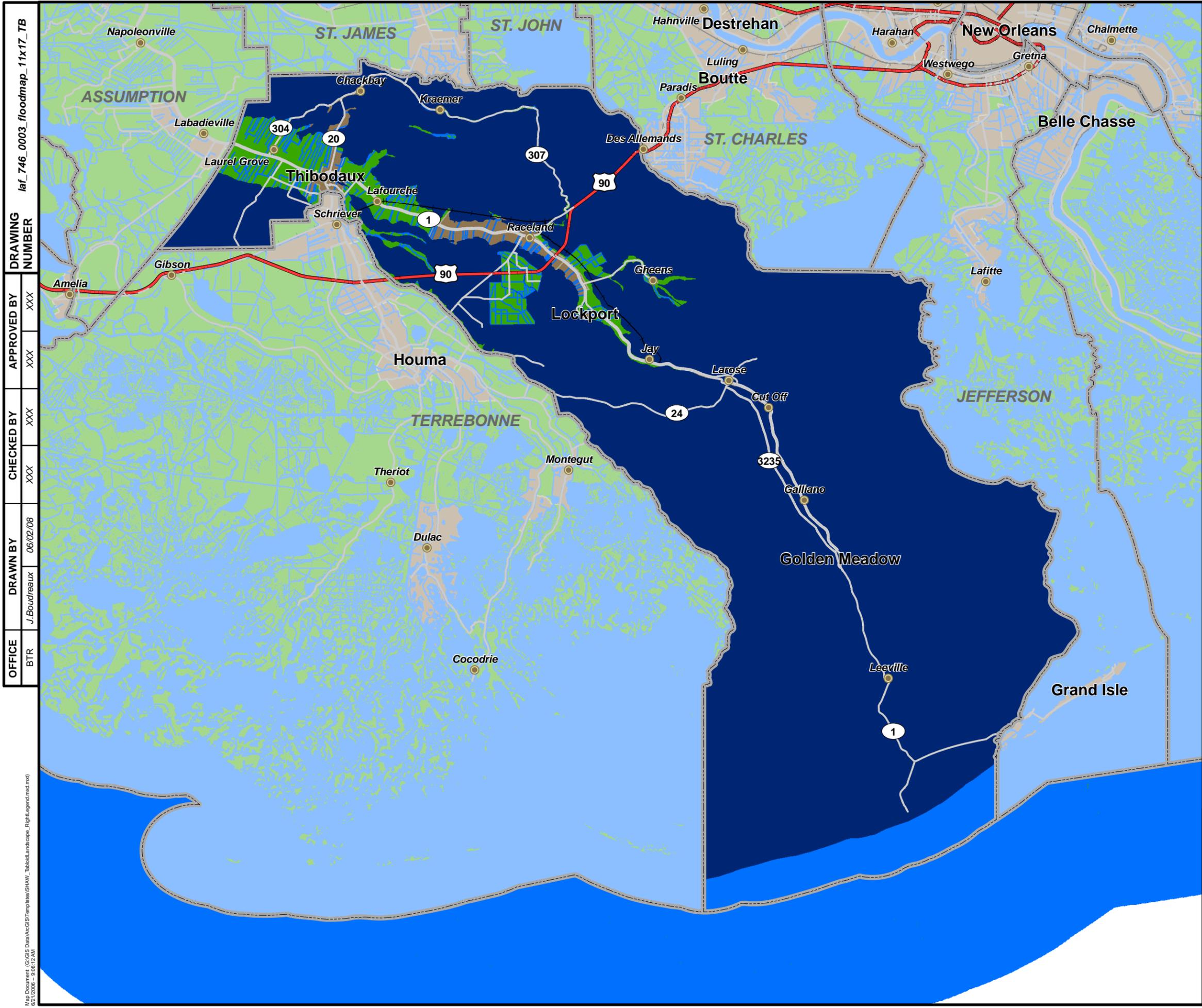
LAFOURCHE PARISH
HAZARD MITIGATION PLAN UPDATE

ATTACHMENT c2-3

LEVEE AND PUMP STATIONS MAP

LAFOURCHE PARISH HAZARD MITIGATION PLAN
LAFOURCHE PARISH, LOUISIANA

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Legend

- US Highway
- State/Parish Highway
- ZONE**
- 100-Year Flood Zone



REFERENCE:
 FEMA Flood Zones Produced From FEMA Q3 Flood Data and
 Obtained From Louisiana State GIS CD.



LAFOURCHE PARISH
 HAZARD MITIGATION PLAN UPDATE

ATTACHMENT c2-4
FEMA FLOOD MAP

LAFOURCHE PARISH HAZARD MITIGATION PLAN
 LAFOURCHE PARISH, LOUISIANA

Map Document: (GIS Data/arcGIS/Template/SHAW_Template.mxd) 2/2/2008 - 9:06:12 AM

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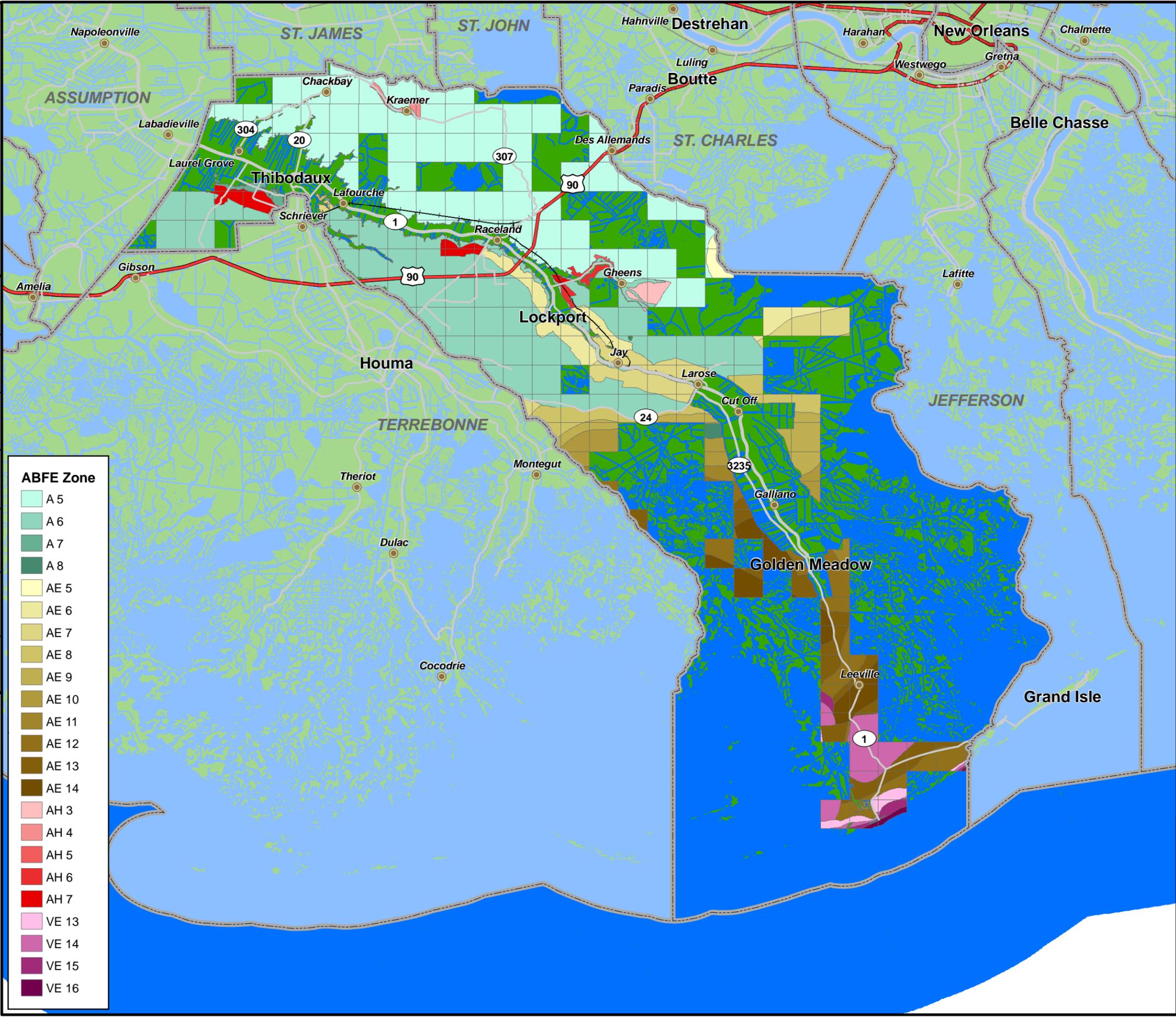
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07/28/08

BTR

ABFE Zone	
	A 5
	A 6
	A 7
	A 8
	AE 5
	AE 6
	AE 7
	AE 8
	AE 9
	AE 10
	AE 11
	AE 12
	AE 13
	AE 14
	AH 3
	AH 4
	AH 5
	AH 6
	AH 7
	VE 13
	VE 14
	VE 15
	VE 16

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Legend

- US Highway
- State/Parish Highway



REFERENCE:
ABFE Data Obtained From FEMA Flood Recovery Data Page.

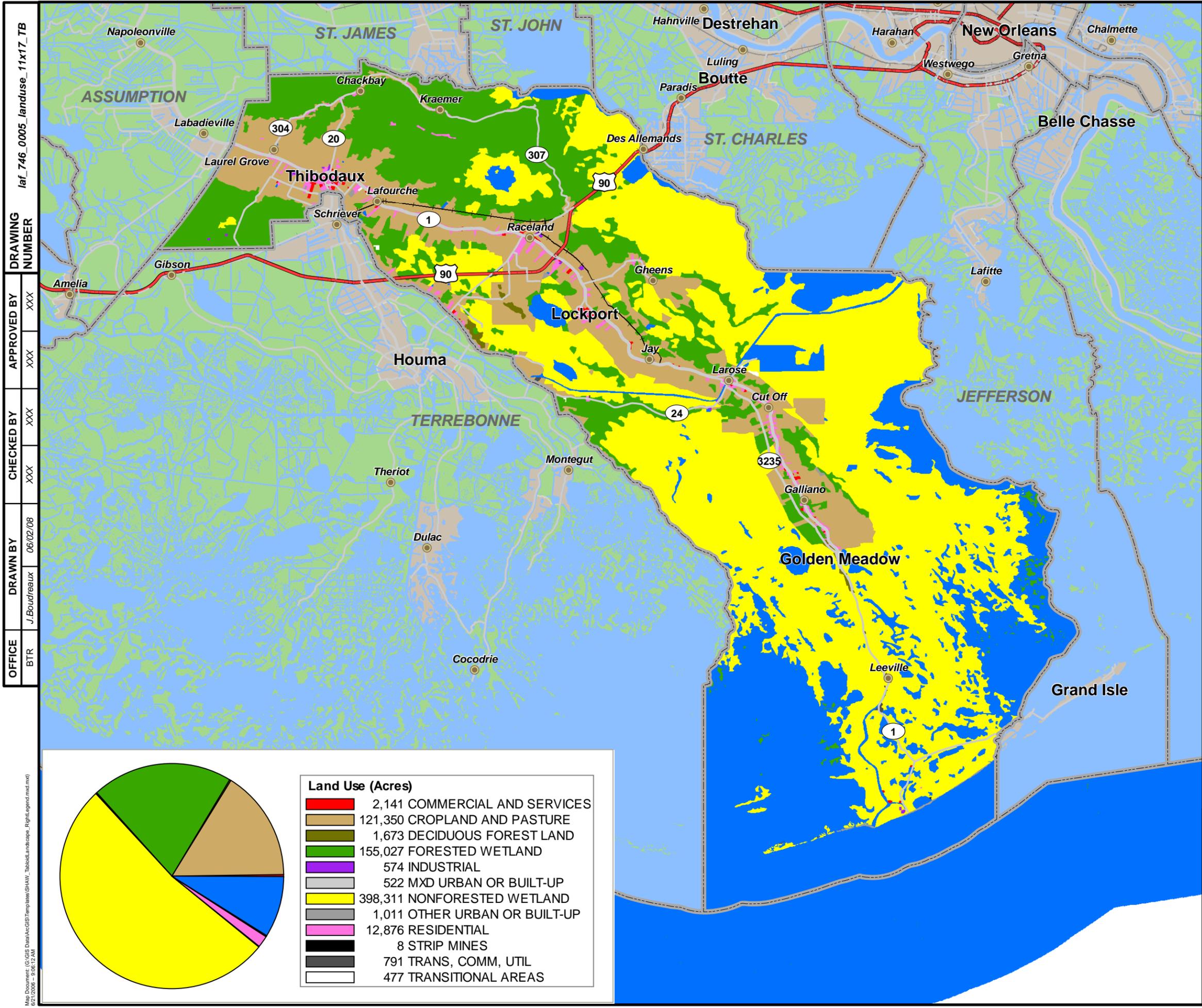


LAFOURCHE PARISH
HAZARD MITIGATION PLAN UPDATE

ATTACHMENT c2-5

ABFE MAP

LAFOURCHE PARISH HAZARD MITIGATION PLAN
LAFOURCHE PARISH, LOUISIANA



Legend

- US Highway
- State/Parish Highway



REFERENCE:
Land Use Data Obtained From LSU's Atlas Website for 250k Quad
"New Orleans, Louisiana".



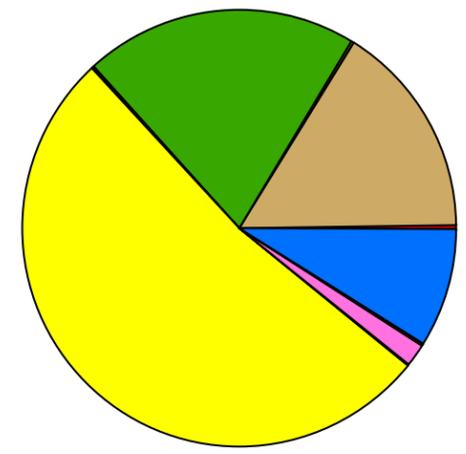
LAFOURCHE PARISH
HAZARD MITIGATION PLAN UPDATE

ATTACHMENT c2-6

LAND USE MAP

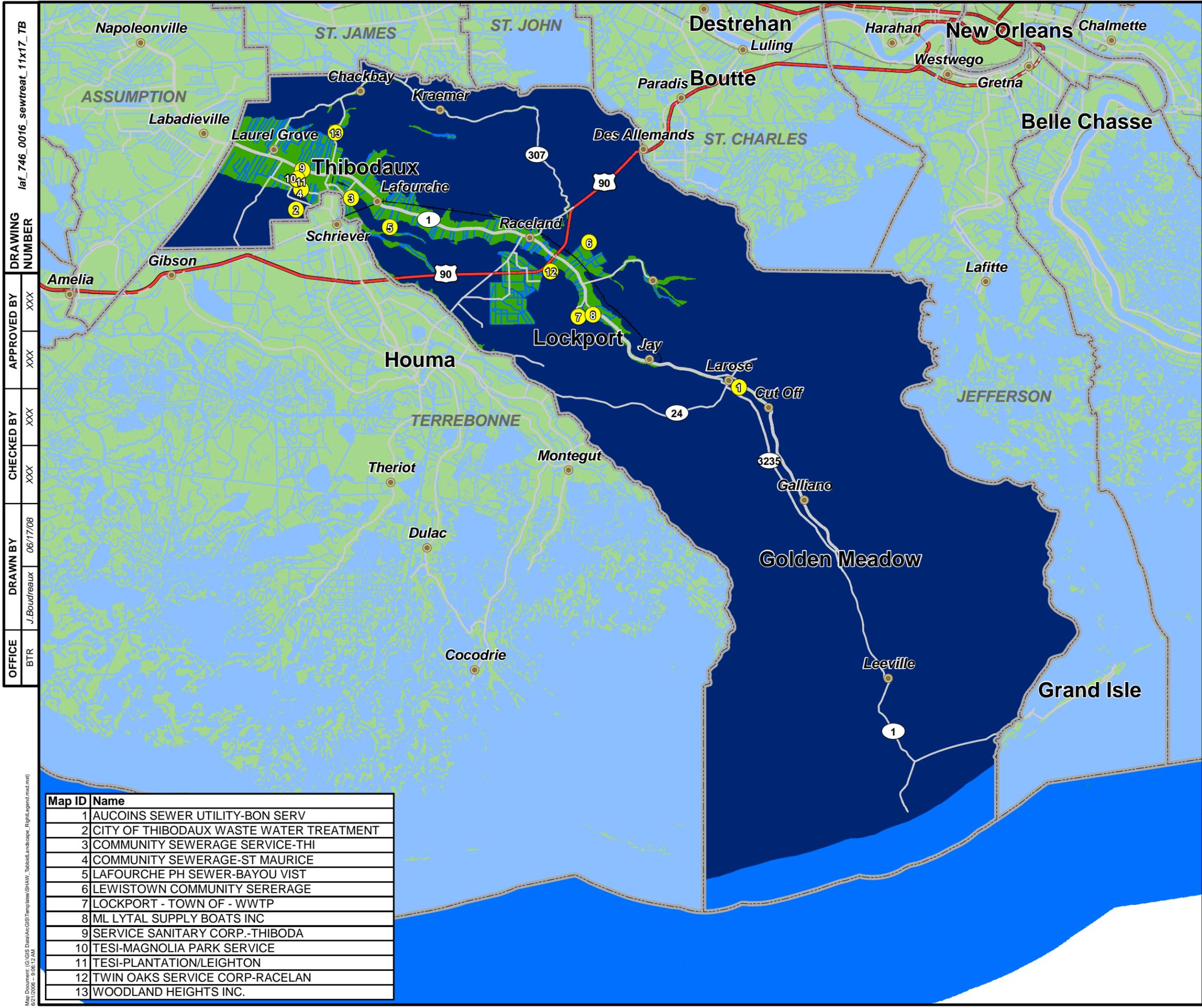
LAFOURCHE PARISH HAZARD MITIGATION PLAN
LAFOURCHE PARISH, LOUISIANA

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Land Use (Acres)	
■	2,141 COMMERCIAL AND SERVICES
■	121,350 CROPLAND AND PASTURE
■	1,673 DECIDUOUS FOREST LAND
■	155,027 FORESTED WETLAND
■	574 INDUSTRIAL
■	522 MXD URBAN OR BUILT-UP
■	398,311 NONFORESTED WETLAND
■	1,011 OTHER URBAN OR BUILT-UP
■	12,876 RESIDENTIAL
■	8 STRIP MINES
■	791 TRANS, COMM, UTIL
■	477 TRANSITIONAL AREAS

Map Document: G:\GIS Data\ArcGIS\Templates\SHAW_Template.aprx; Right: Legend.mxd; 6/2/2008 9:06:12 AM



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Legend

- Sewer Treatment Facilities
- US Highway
- State/Parish Highway
- ZONE**
- 100-Year Flood Zone



REFERENCE:
 FEMA Flood Zones Produced From FEMA Q3 Flood Data and
 Obtained From Louisiana State GIS CD.

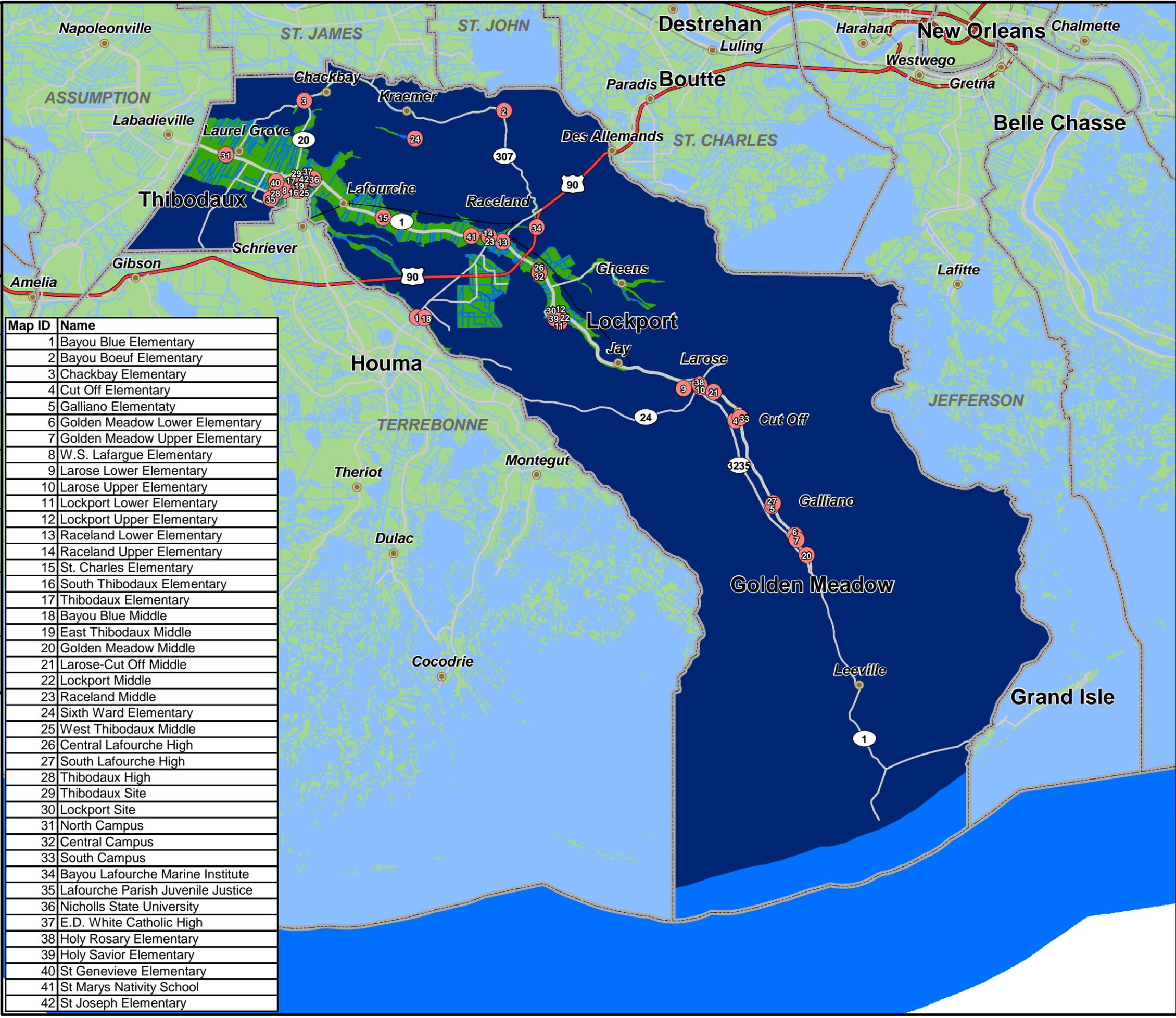
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2	CITY OF THIBODAUX WASTE WATER TREATMENT
3	COMMUNITY SEWERAGE SERVICE-THI
4	COMMUNITY SEWERAGE-ST MAURICE
5	LAFOURCHE PH SEWER-BAYOU VIST
6	LEWISTOWN COMMUNITY SERERAGE
7	LOCKPORT - TOWN OF - WWTP
8	ML LYTAL SUPPLY BOATS INC
9	SERVICE SANITARY CORP.-THIBODA
10	TESI-MAGNOLIA PARK SERVICE
11	TESI-PLANTATION/LEIGHTON
12	TWIN OAKS SERVICE CORP-RACELAN
13	WOODLAND HEIGHTS INC.

LAFOURCHE PARISH
HAZARD MITIGATION PLAN UPDATE

ATTACHMENT c2-7.1
CRITICAL FACILITIES - SEWER TREATMENT
 LAFOURCHE PARISH HAZARD MITIGATION PLAN
 LAFOURCHE PARISH, LOUISIANA

Map Document: (GIS Data/Map/CS/Template/SHAW_Thibodaux.mxd) Right: signed.mxd
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Map ID	Name
1	Bayou Blue Elementary
2	Bayou Boeuf Elementary
3	Chackbay Elementary
4	Cut Off Elementary
5	Galliano Elementaty
6	Golden Meadow Lower Elementary
7	Golden Meadow Upper Elementary
8	W.S. Lafargue Elementary
9	Larose Lower Elementary
10	Larose Upper Elementary
11	Lockport Lower Elementary
12	Lockport Upper Elementary
13	Raceland Lower Elementary
14	Raceland Upper Elementary
15	St. Charles Elementary
16	South Thibodaux Elementary
17	Thibodaux Elementary
18	Bayou Blue Middle
19	East Thibodaux Middle
20	Golden Meadow Middle
21	Larose-Cut Off Middle
22	Lockport Middle
23	Raceland Middle
24	Sixth Ward Elementary
25	West Thibodaux Middle
26	Central Lafourche High
27	South Lafourche High
28	Thibodaux High
29	Thibodaux Site
30	Lockport Site
31	North Campus
32	Central Campus
33	South Campus
34	Bayou Lafourche Marine Institute
35	Lafourche Parish Juvenile Justice
36	Nicholls State University
37	E.D. White Catholic High
38	Holy Rosary Elementary
39	Holy Savior Elementary
40	St Genevieve Elementary
41	St Marys Nativity School
42	St Joseph Elementary



Legend

- Schools
 - US Highway
 - State/Parish Highway
- ZONE**
- 100-Year Flood Zone



REFERENCE:
FEMA Flood Zones Produced From FEMA Q3 Flood Data and
Obtained From Louisiana State GIS CD.



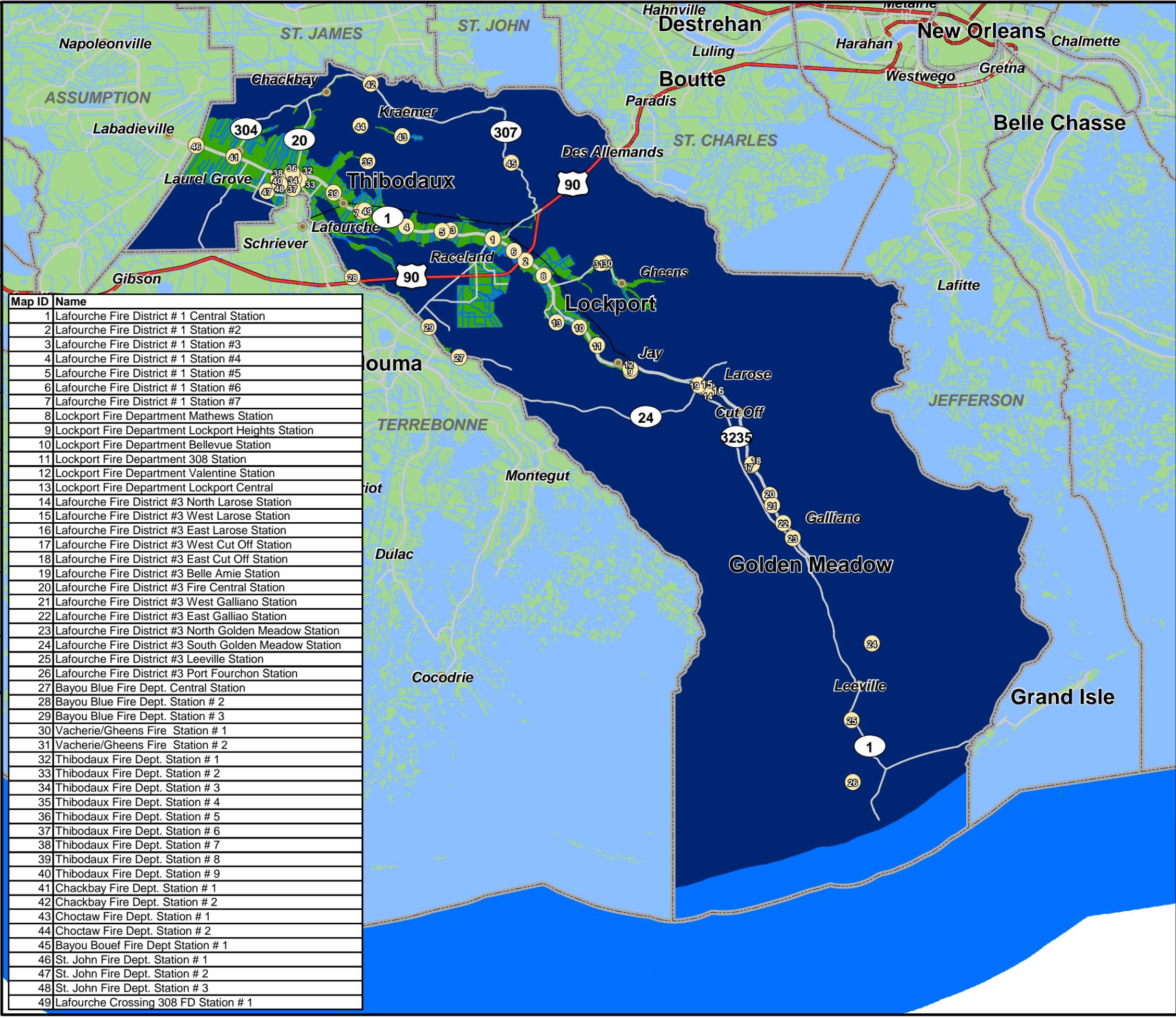
LAFOURCHE PARISH
HAZARD MITIGATION PLAN UPDATE

ATTACHMENT c2-7.2

CRITICAL FACILITIES - SCHOOLS

LAFOURCHE PARISH HAZARD MITIGATION PLAN
LAFOURCHE PARISH, LOUISIANA

Map Document: (GIS Data/Map/CS/Template/SHAW_Thibodaux.mxd) Right: signed.mxd



Map ID	Name
1	Lafourche Fire District # 1 Central Station
2	Lafourche Fire District # 1 Station #2
3	Lafourche Fire District # 1 Station #3
4	Lafourche Fire District # 1 Station #4
5	Lafourche Fire District # 1 Station #5
6	Lafourche Fire District # 1 Station #6
7	Lafourche Fire District # 1 Station #7
8	Lockport Fire Department Mathews Station
9	Lockport Fire Department Lockport Heights Station
10	Lockport Fire Department Bellevue Station
11	Lockport Fire Department 308 Station
12	Lockport Fire Department Valentine Station
13	Lockport Fire Department Lockport Central
14	Lafourche Fire District #3 North Larose Station
15	Lafourche Fire District #3 West Larose Station
16	Lafourche Fire District #3 East Larose Station
17	Lafourche Fire District #3 West Cut Off Station
18	Lafourche Fire District #3 East Cut Off Station
19	Lafourche Fire District #3 Belle Amie Station
20	Lafourche Fire District #3 Fire Central Station
21	Lafourche Fire District #3 West Galliano Station
22	Lafourche Fire District #3 East Galliao Station
23	Lafourche Fire District #3 North Golden Meadow Station
24	Lafourche Fire District #3 South Golden Meadow Station
25	Lafourche Fire District #3 Leeville Station
26	Lafourche Fire District #3 Port Fourchon Station
27	Bayou Blue Fire Dept. Central Station
28	Bayou Blue Fire Dept. Station # 2
29	Bayou Blue Fire Dept. Station # 3
30	Vacherie/Gheens Fire Station # 1
31	Vacherie/Gheens Fire Station # 2
32	Thibodaux Fire Dept. Station # 1
33	Thibodaux Fire Dept. Station # 2
34	Thibodaux Fire Dept. Station # 3
35	Thibodaux Fire Dept. Station # 4
36	Thibodaux Fire Dept. Station # 5
37	Thibodaux Fire Dept. Station # 6
38	Thibodaux Fire Dept. Station # 7
39	Thibodaux Fire Dept. Station # 8
40	Thibodaux Fire Dept. Station # 9
41	Chackbay Fire Dept. Station # 1
42	Chackbay Fire Dept. Station # 2
43	Choctaw Fire Dept. Station # 1
44	Choctaw Fire Dept. Station # 2
45	Bayou Bouef Fire Dept Station # 1
46	St. John Fire Dept. Station # 1
47	St. John Fire Dept. Station # 2
48	St. John Fire Dept. Station # 3
49	Lafourche Crossing 308 FD Station # 1



Legend

- Fire Stations
- US Highway
- State/Parish Highway
- ZONE**
- 100-Year Flood Zone



REFERENCE:
FEMA Flood Zones Produced From FEMA Q3 Flood Data and
Obtained From Louisiana State GIS CD.



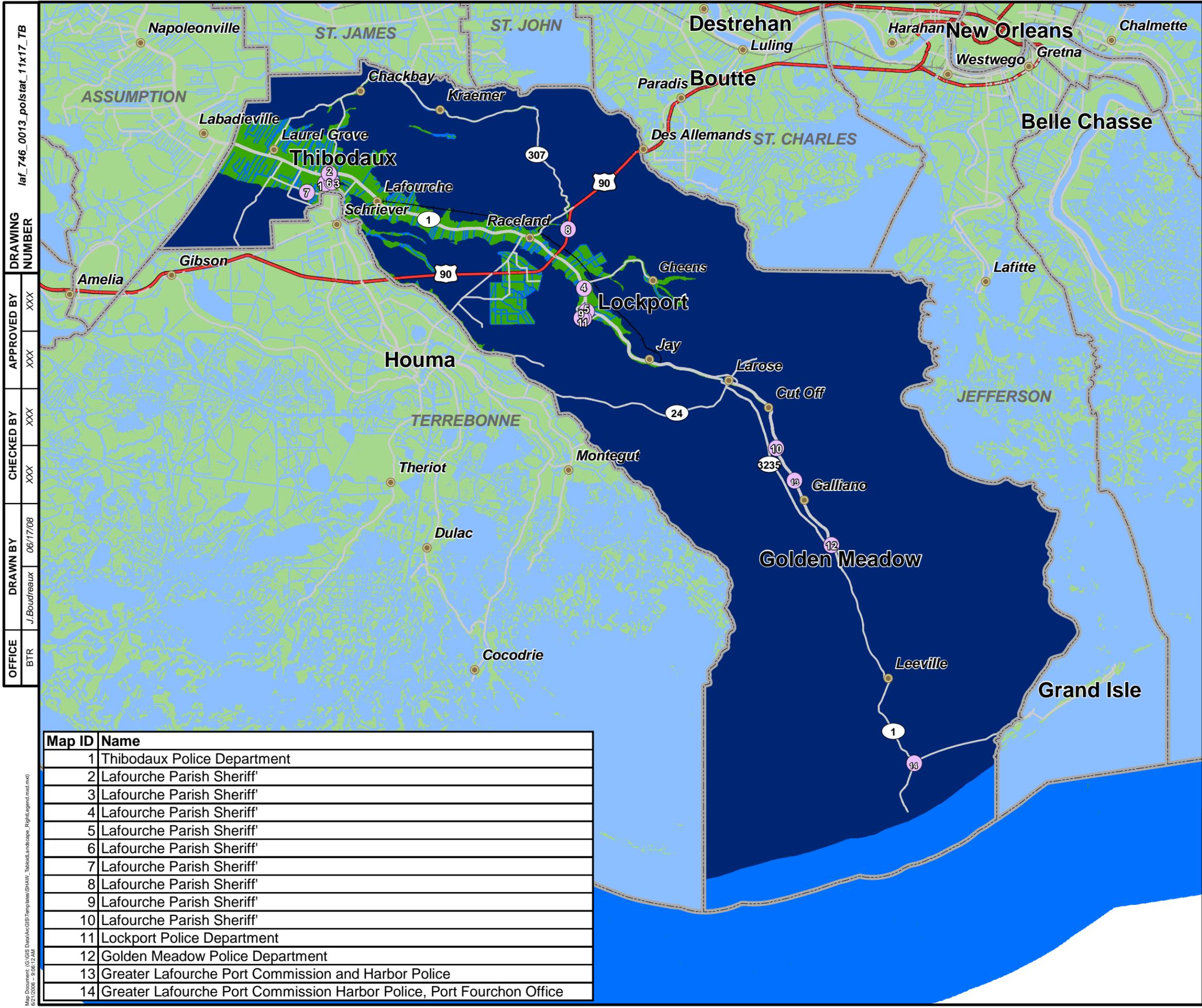
LAFOURCHE PARISH
HAZARD MITIGATION PLAN UPDATE

ATTACHMENT c2-7.3

CRITICAL FACILITIES - FIRE STATIONS

LAFOURCHE PARISH HAZARD MITIGATION PLAN
LAFOURCHE PARISH, LOUISIANA

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Legend

- Police Stations
- US Highway
- State/Parish Highway
- ZONE**
- 100-Year Flood Zone



REFERENCE:
 FEMA Flood Zones Produced From FEMA Q3 Flood Data and
 Obtained From Louisiana State GIS CD.

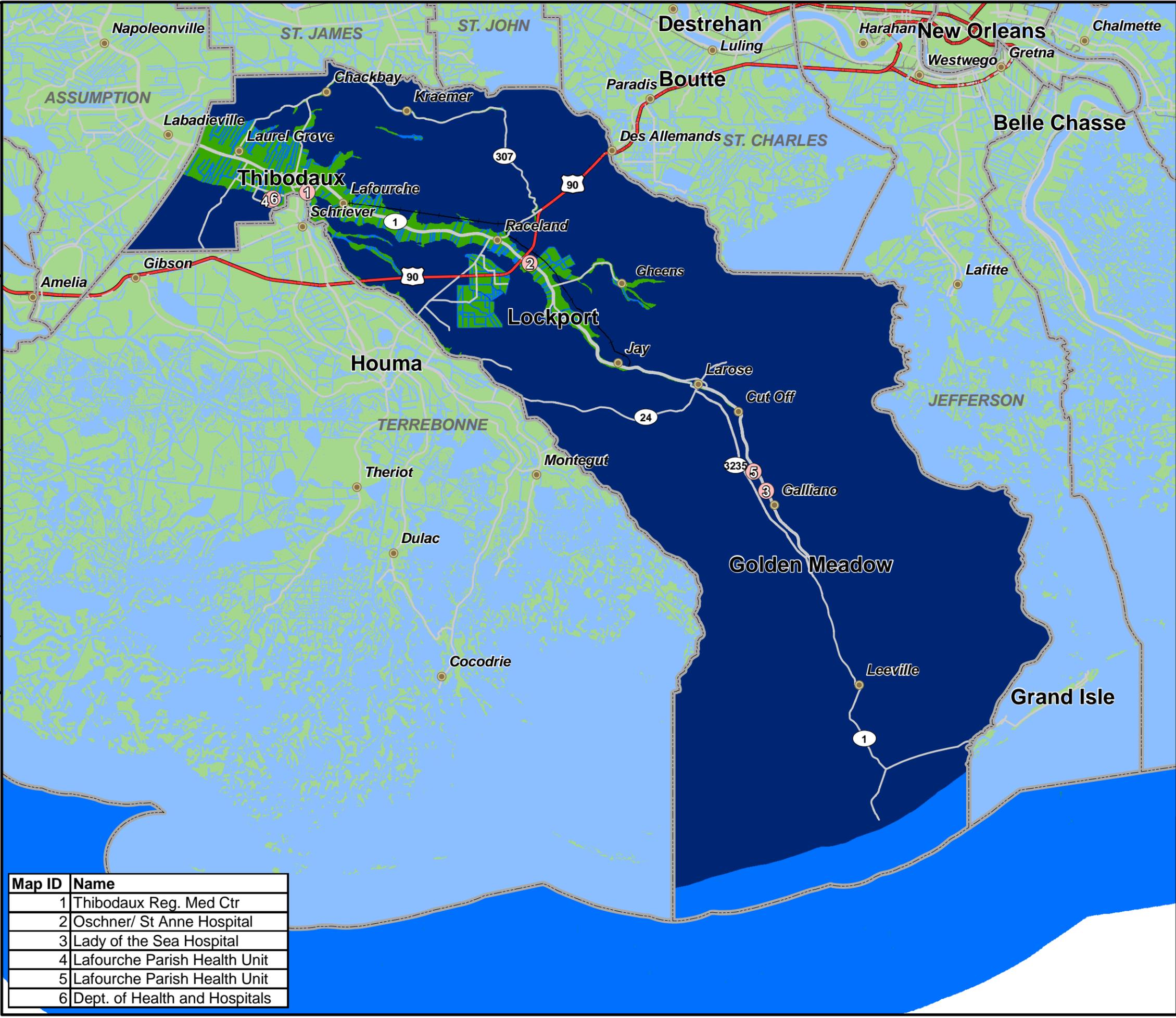
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1	Thibodaux Police Department
2	Lafourche Parish Sheriff'
3	Lafourche Parish Sheriff'
4	Lafourche Parish Sheriff'
5	Lafourche Parish Sheriff'
6	Lafourche Parish Sheriff'
7	Lafourche Parish Sheriff'
8	Lafourche Parish Sheriff'
9	Lafourche Parish Sheriff'
10	Lafourche Parish Sheriff'
11	Lockport Police Department
12	Golden Meadow Police Department
13	Greater Lafourche Port Commission and Harbor Police
14	Greater Lafourche Port Commission Harbor Police, Port Fourchon Office

LAFOURCHE PARISH
HAZARD MITIGATION PLAN UPDATE

ATTACHMENT c2-7.4
CRITICAL FACILITIES - POLICE STATIONS
 LAFOURCHE PARISH HAZARD MITIGATION PLAN
 LAFOURCHE PARISH, LOUISIANA

Map Document: C:\GIS Data\ArcGIS\Templates\SHAW_Thibodaux.mxd
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 OFFICE BTR



Legend

- Public Health Facilities
- US Highway
- State/Parish Highway
- ZONE**
- 100-Year Flood Zone



REFERENCE:
 FEMA Flood Zones Produced From FEMA Q3 Flood Data and
 Obtained From Louisiana State GIS CD.

Map ID	Name
1	Thibodaux Reg. Med Ctr
2	Oschner/ St Anne Hospital
3	Lady of the Sea Hospital
4	Lafourche Parish Health Unit
5	Lafourche Parish Health Unit
6	Dept. of Health and Hospitals



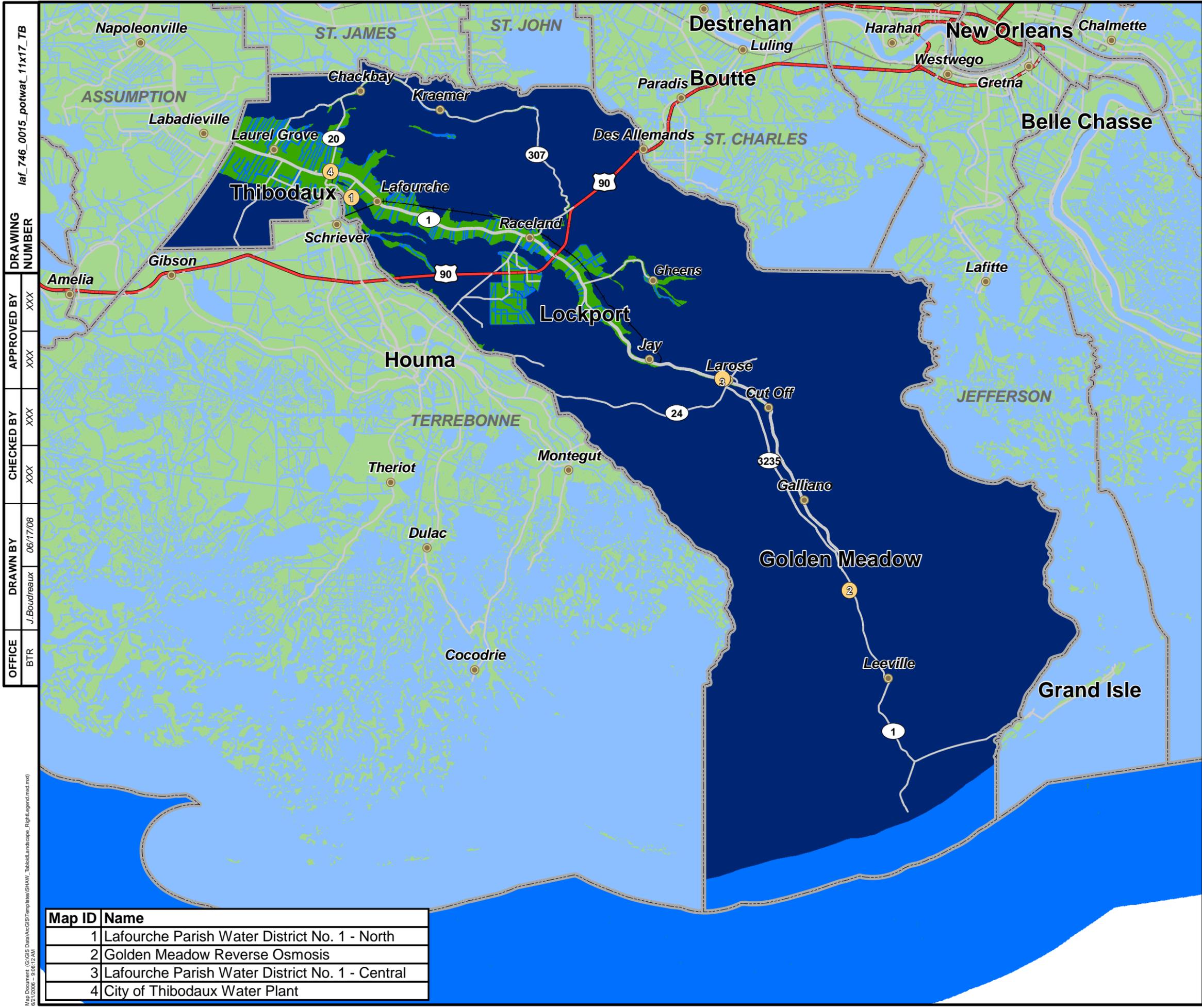
LAFOURCHE PARISH
 HAZARD MITIGATION PLAN UPDATE

ATTACHMENT c2-7.5

CRITICAL FACILITIES - PUBLIC HEALTH

LAFOURCHE PARISH HAZARD MITIGATION PLAN
 LAFOURCHE PARISH, LOUISIANA

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Legend

- Potable Water Facilities
- US Highway
- State/Parish Highway
- ZONE**
- 100-Year Flood Zone



REFERENCE:
 FEMA Flood Zones Produced From FEMA Q3 Flood Data and
 Obtained From Louisiana State GIS CD.

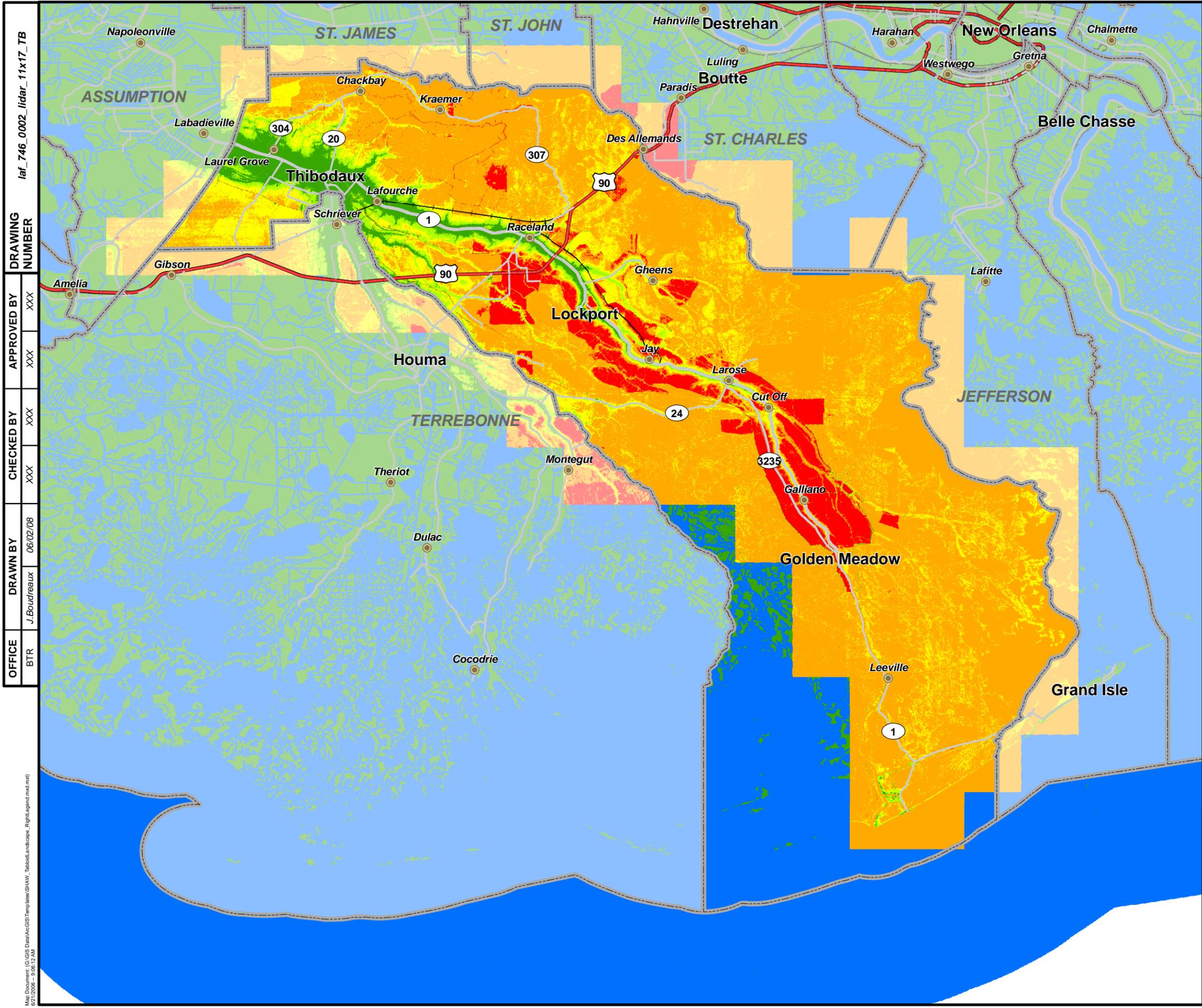


LAFOURCHE PARISH
 HAZARD MITIGATION PLAN UPDATE

Map ID	Name
1	Lafourche Parish Water District No. 1 - North
2	Golden Meadow Reverse Osmosis
3	Lafourche Parish Water District No. 1 - Central
4	City of Thibodaux Water Plant

ATTACHMENT c2-7.6
CRITICAL FACILITIES - POTABLE WATER
 LAFOURCHE PARISH HAZARD MITIGATION PLAN
 LAFOURCHE PARISH, LOUISIANA

Map Document: C:\GIS Data\ArcGIS\Templates\SHAW_Lafourche.mxd
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Legend

- US Highway
- State/Parish Highway

Lafourche Lidar

- Below 0'
- 0' - 2'
- 2' - 4'
- 4' - 6'
- Greater Than 6'



REFERENCE:
 USGS LIDAR Data Elevations Obtained From LSU's Atlas Website
 For Lafourche Parish, Louisiana.



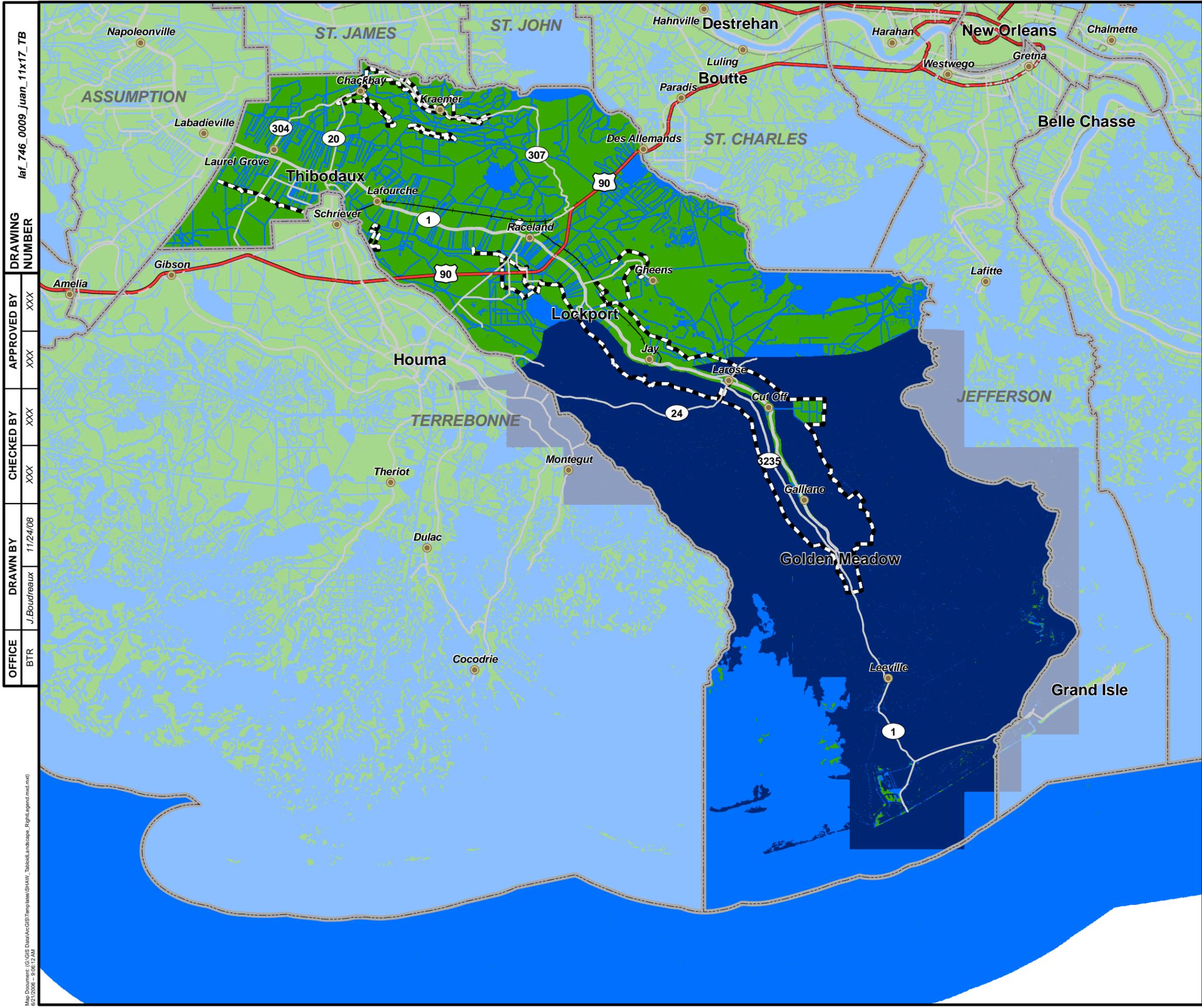
LAFOURCHE PARISH
 HAZARD MITIGATION PLAN UPDATE

ATTACHMENT c2-8

LIDAR MAP

LAFOURCHE PARISH HAZARD MITIGATION PLAN
 LAFOURCHE PARISH, LOUISIANA

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 APPROVED BY: XXX
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Legend

- US Highway
- State/Parish Highway
- Levees
- Area of Inundation



REFERENCE:
 Inundation Area Interpreted From USACE Historic High Water Marks.



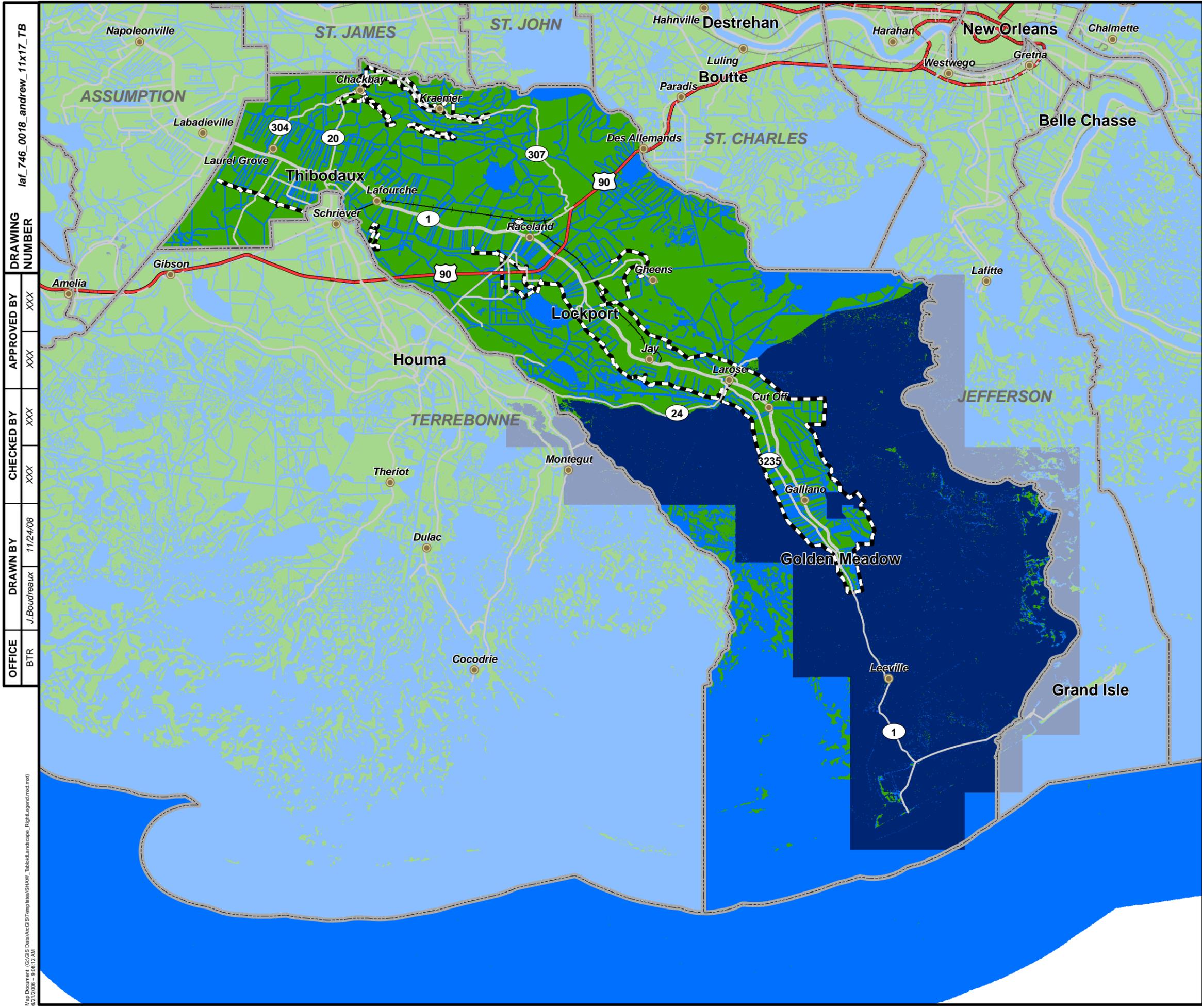
LAFOURCHE PARISH
 HAZARD MITIGATION PLAN UPDATE

ATTACHMENT c2-9

HURRICANE JUAN INUNDATION (1985)

LAFOURCHE PARISH HAZARD MITIGATION PLAN
 LAFOURCHE PARISH, LOUISIANA

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Legend

- US Highway
- State/Parish Highway
- Levees
- Area of Inundation



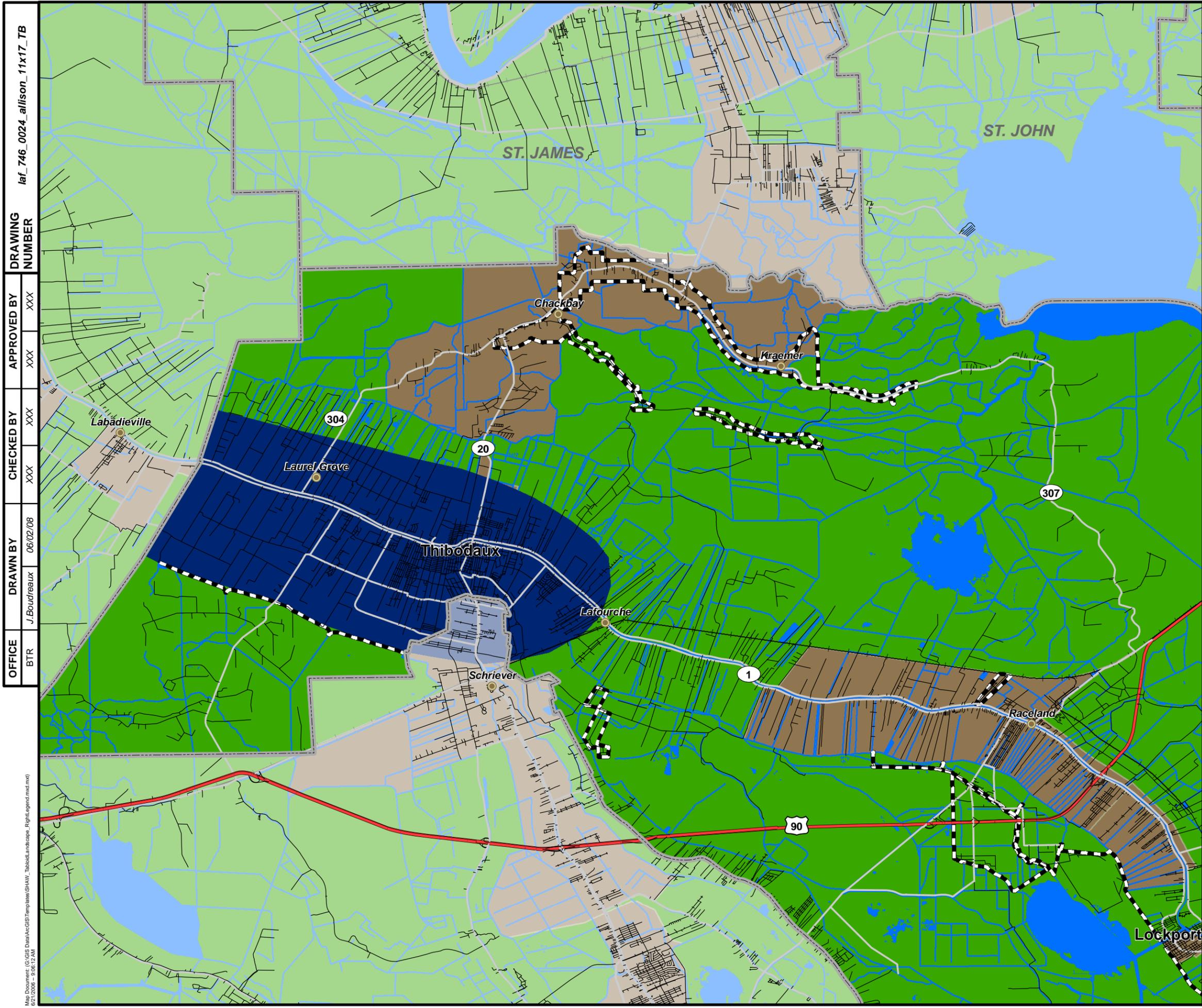
REFERENCE:
 Inundation Area Interpreted From USACE Historic High Water Marks.



LAFOURCHE PARISH
 HAZARD MITIGATION PLAN UPDATE

ATTACHMENT c2-10
HURRICANE ANDREW INUNDATION (1992)
 LAFOURCHE PARISH HAZARD MITIGATION PLAN
 LAFOURCHE PARISH, LOUISIANA

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Legend

-  Levees
-  Area of Inundation



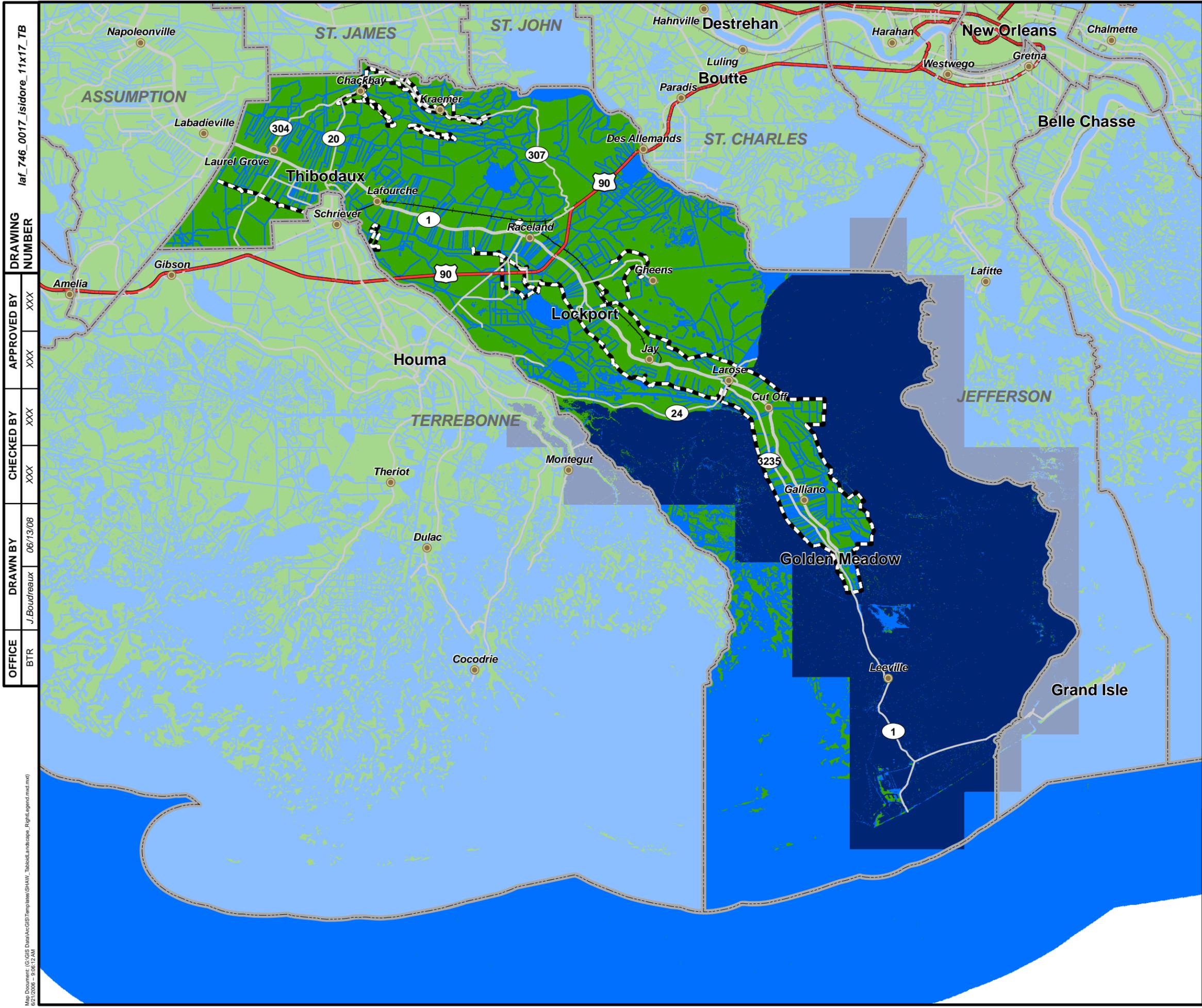
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LAFOURCHE PARISH
 HAZARD MITIGATION PLAN UPDATE

ATTACHMENT c2-11
TROPICAL STORM ALLISON

LAFOURCHE PARISH HAZARD MITIGATION PLAN
 LAFOURCHE PARISH, LOUISIANA



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 APPROVED BY: XXX
 DRAWING NUMBER: laf_746_0017_isidore_11x17_TB



Legend

- US Highway
- State/Parish Highway
- Levees
- Area of Inundation



REFERENCE:
 Inundation Area Interpreted From USACE Historic High Water Marks.

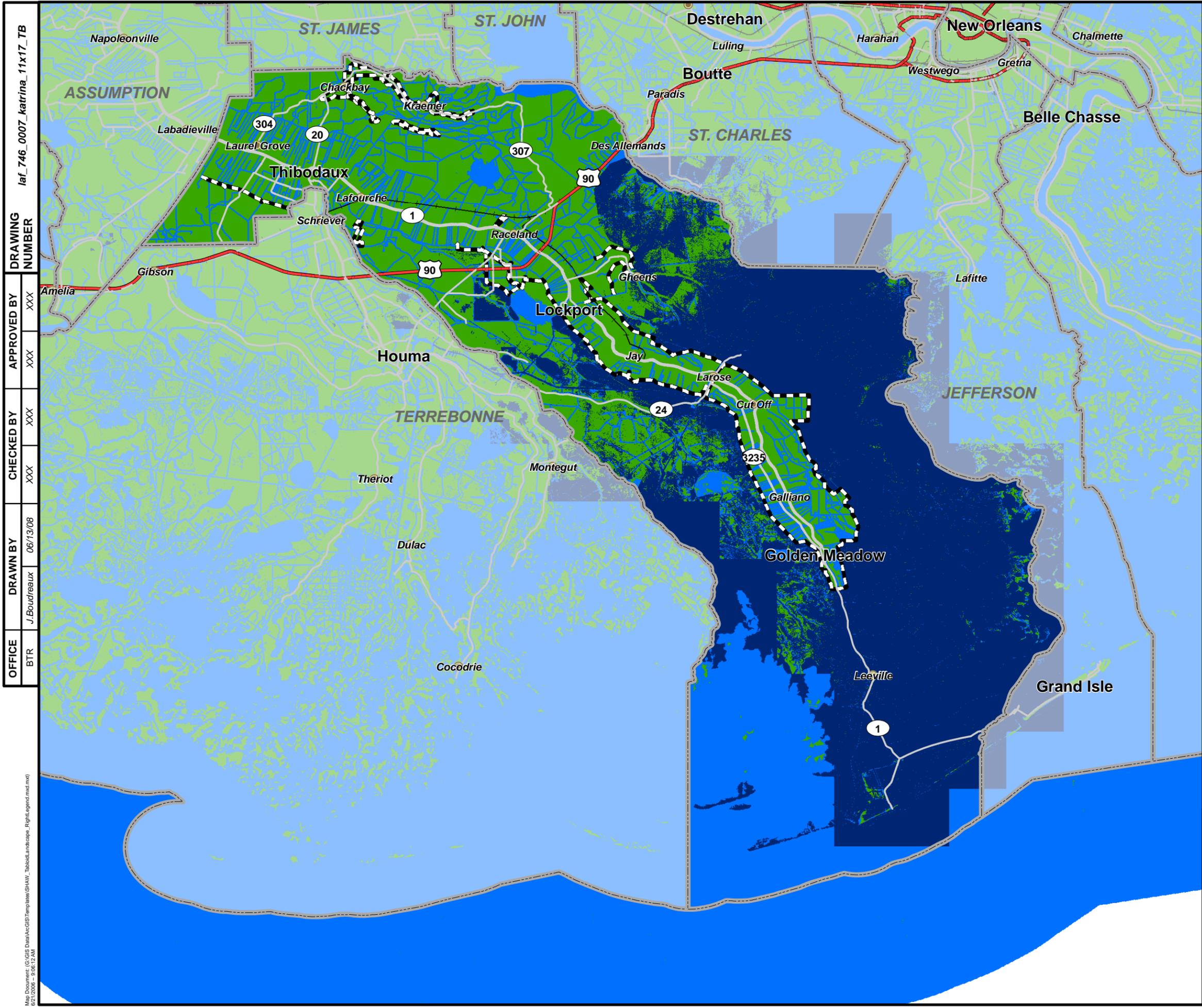


LAFOURCHE PARISH
 HAZARD MITIGATION PLAN UPDATE

ATTACHMENT c2-12
 HURRICANE ISIDORE INUNDATION (2002)

LAFOURCHE PARISH HAZARD MITIGATION PLAN
 LAFOURCHE PARISH, LOUISIANA

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 APPROVED BY: XXX
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Legend

- US Highway
- State/Parish Highway
- Levees
- Area of Inundation



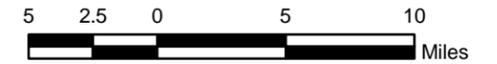
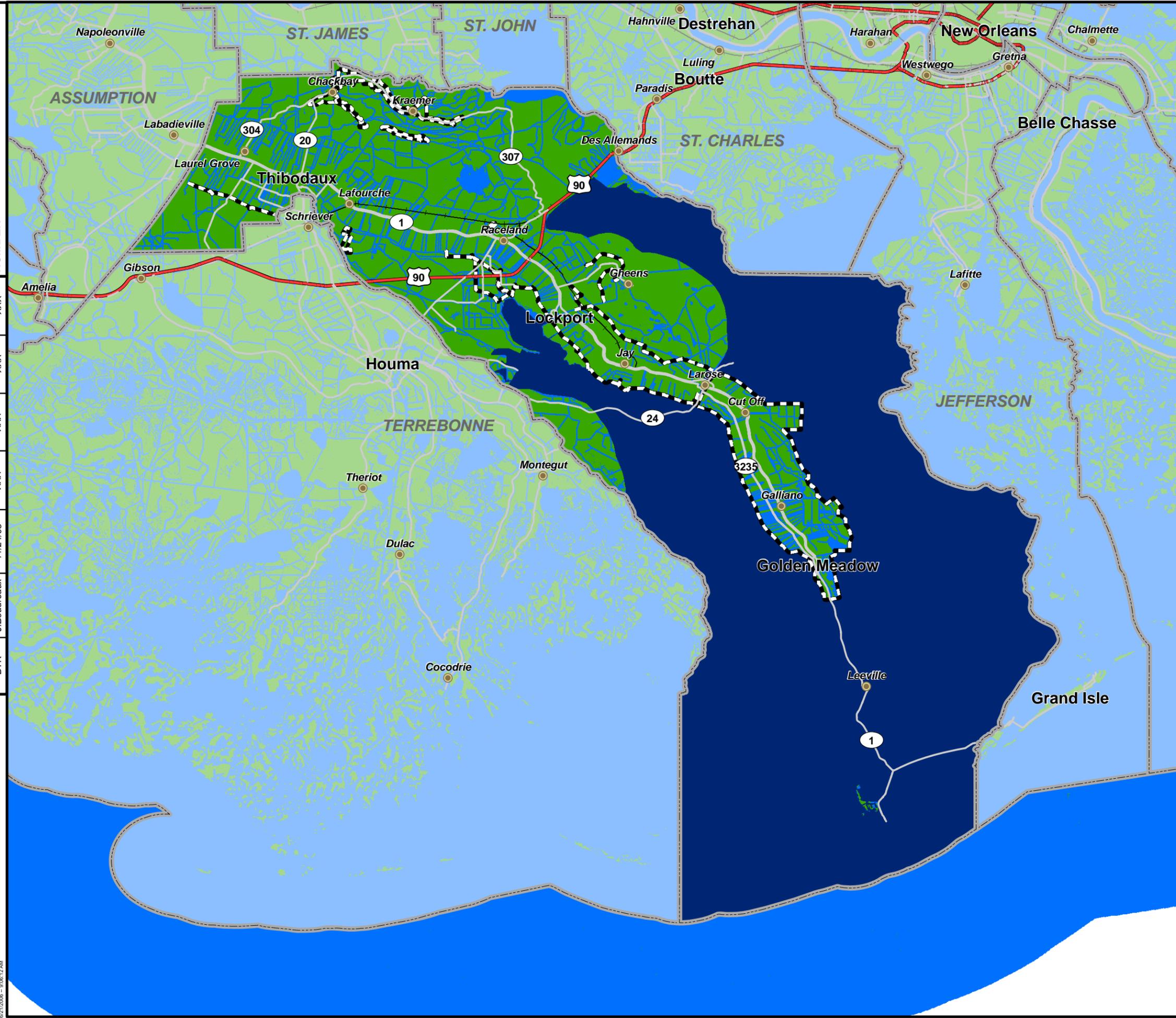
REFERENCE:
 Inundation Area Interpreted From USACE Historic High Water Marks.



LAFOURCHE PARISH
 HAZARD MITIGATION PLAN UPDATE

ATTACHMENT c2-13
HURRICANE KATRINA INUNDATION (2005)
 LAFOURCHE PARISH HAZARD MITIGATION PLAN
 LAFOURCHE PARISH, LOUISIANA

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Legend

-  US Highway
-  State/Parish Highway
-  Levees
-  Area of Inundation



REFERENCE:
Hurricane Rita Inundation Areas Provided by Louisiana State University
Department of Agriculture.

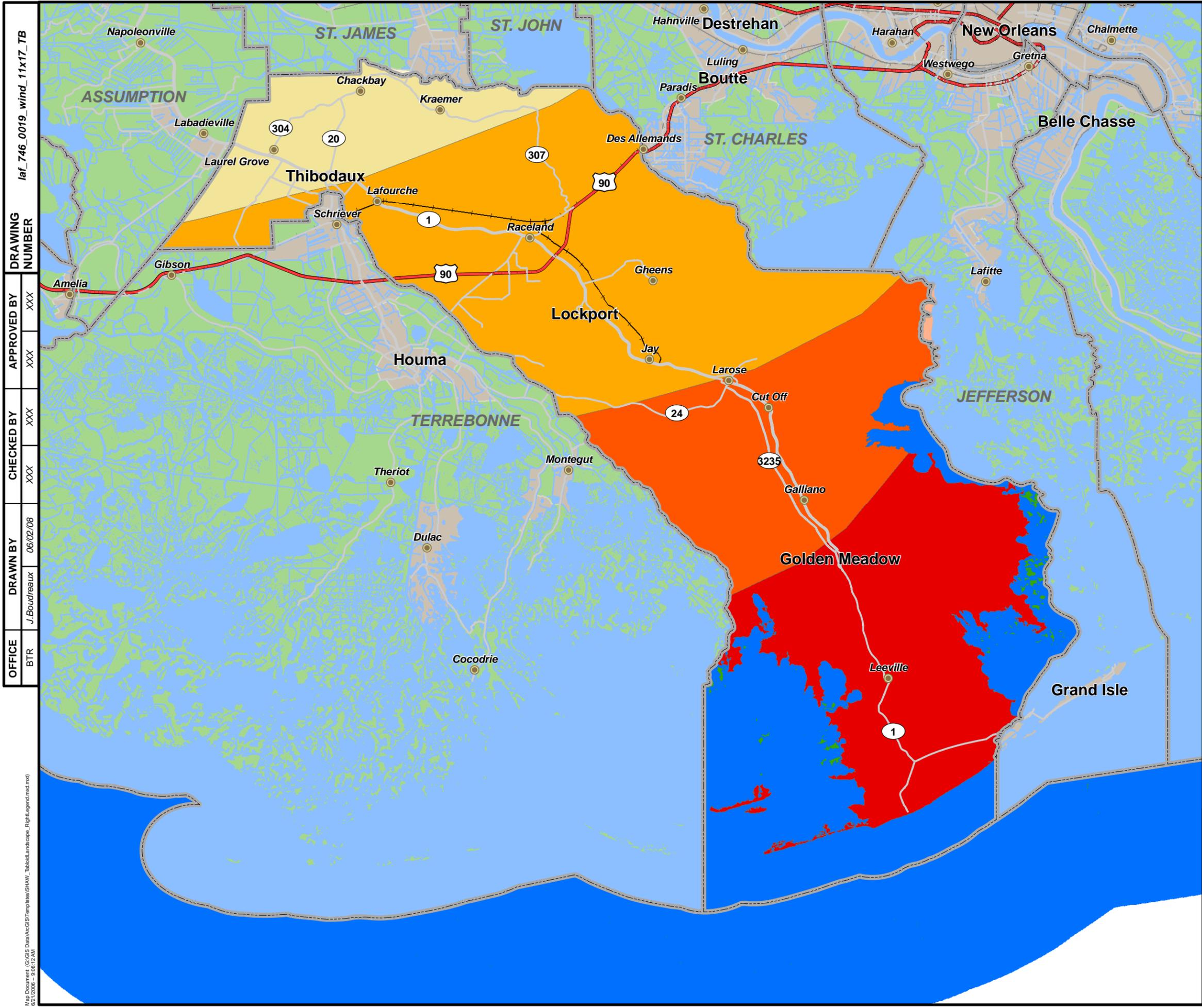


LAFOURCHE PARISH
HAZARD MITIGATION PLAN UPDATE

ATTACHMENT c2-14

HURRICANE RITA INUNDATION (2005)

LAFOURCHE PARISH HAZARD MITIGATION PLAN
LAFOURCHE PARISH, LOUISIANA



Legend

- US Highway
- State/Parish Highway

IRC/IBC Wind Speed Map

- Wind Speed**
- >110mph - 120mph
 - >120mph - 130mph
 - >130mph - 140mph
 - >140mph



REFERENCE:
Wind Speeds Obtained From IRC/IBC Wind Speed Map Dated 2003.



LAFOURCHE PARISH
HAZARD MITIGATION PLAN UPDATE

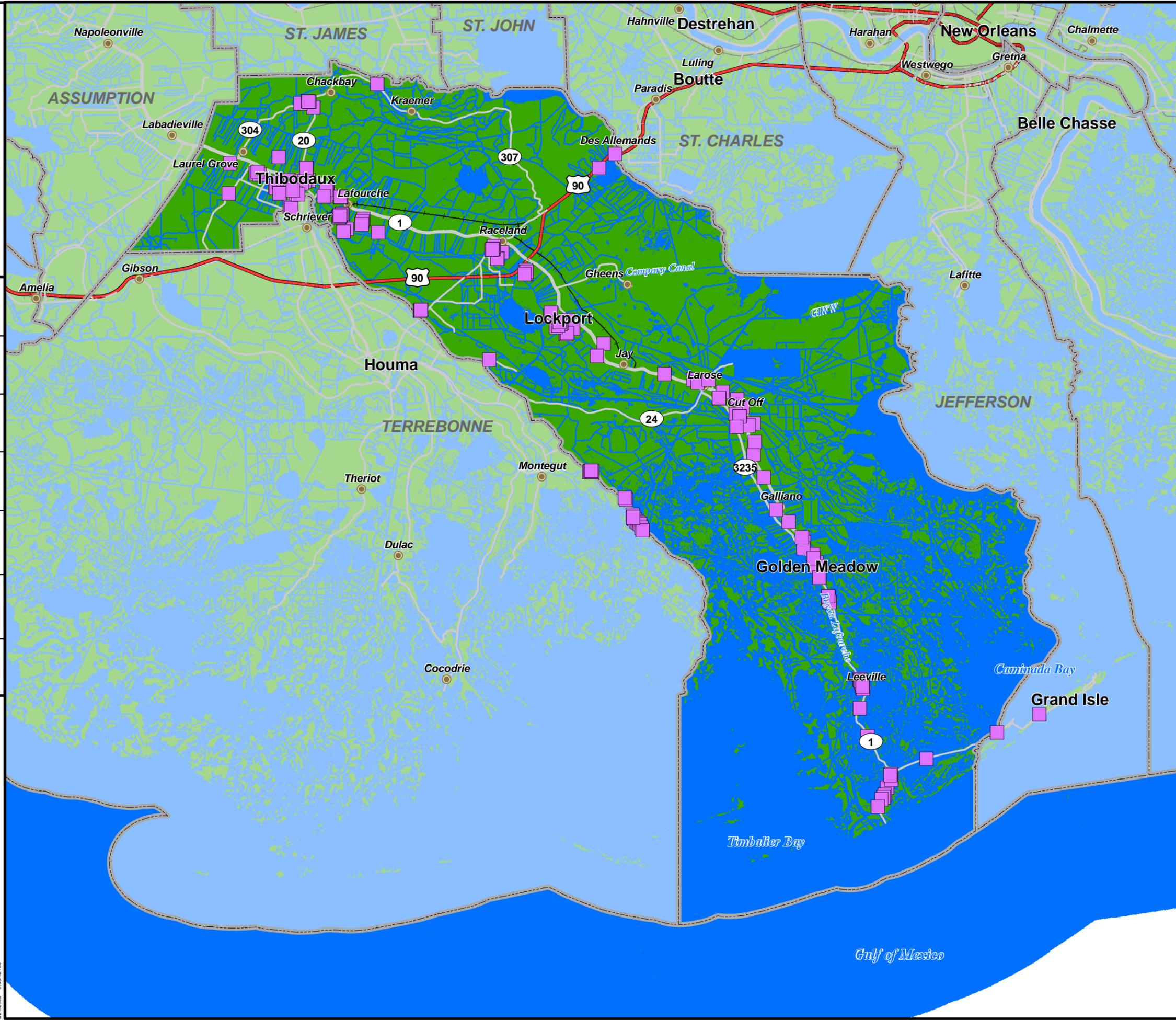
ATTACHMENT c2-15

IRC/IBC WIND SPEED MAP

LAFOURCHE PARISH HAZARD MITIGATION PLAN
LAFOURCHE PARISH, LOUISIANA

OFFICE	BTR
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CHECKED BY	XXX
APPROVED BY	XXX
DRAWING NUMBER	laf_746_0019_wind_11x17_TB

Map Document: G:\GIS Data\AcGIS\Templates\SHAW_Template.mxd; Right: signed.mxd; 06/02/08 9:06:12 AM



Legend

- Repetitive Loss Structures
- US Highway
- State/Parish Highway



REFERENCE:
Inundation Area Interpreted From USACE Historic High Water Marks.

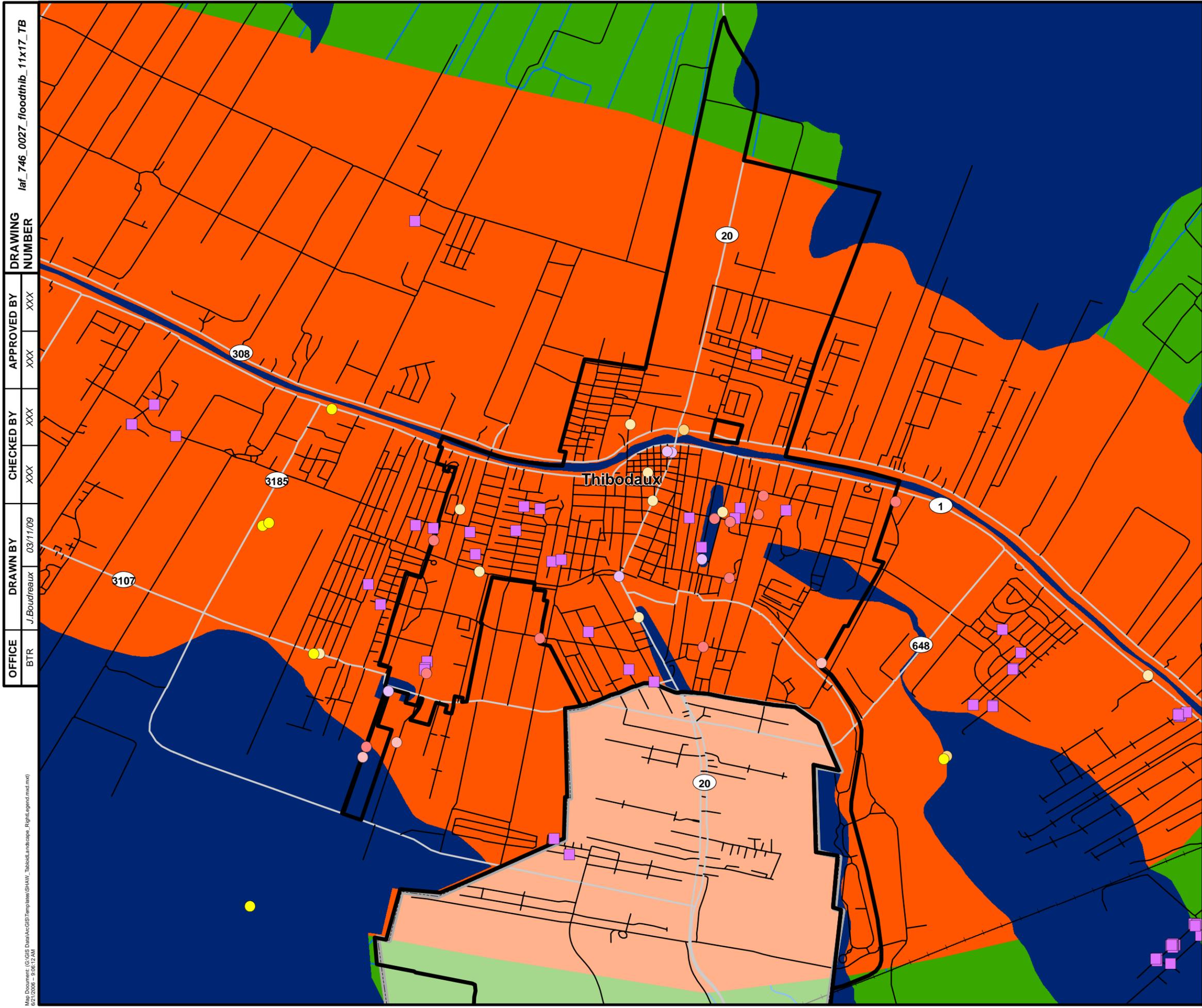


LAFOURCHE PARISH
HAZARD MITIGATION PLAN UPDATE

ATTACHMENT c2-16

REPETITIVE LOSS STRUCTURES

LAFOURCHE PARISH HAZARD MITIGATION PLAN
LAFOURCHE PARISH, LOUISIANA



OFFICE: BTR
 DRAWN BY: J. Boudreaux
 CHECKED BY: XXX
 APPROVED BY: XXX
 DRAWING NUMBER: laf_746_0027_floodthib_11x17_TB



Legend

- Sewer Treatment Facilities
 - Potable Water Facilities
 - Fire Stations
 - Police Stations
 - Public Health Facilities
 - Schools
 - Repetitive Loss Structures
- ZONE**
- 100-Year Flood Zone
 - Area at Risk (Outside 100-Year Floodplain)



REFERENCE:
 FEMA Flood Zones Produced From FEMA Q3 Flood Data and
 Obtained From Louisiana State GIS CD.



LAFOURCHE PARISH
 HAZARD MITIGATION PLAN UPDATE

ATTACHMENT c2-17.1A

COMPOSITE RISK MAP - THIBODAUX

LAFOURCHE PARISH HAZARD MITIGATION PLAN
 LAFOURCHE PARISH, LOUISIANA

Map Document: G:\GIS Data\ArcGIS\Templates\SHAW_Thibodaux.mxd
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OFFICE: BTR
 DRAWN BY: J. Boudreaux
 CHECKED BY: XXX
 APPROVED BY: XXX
 DRAWING NUMBER: laf_746_0028_floodlock_11x17_TB



Legend

- Sewer Treatment Facilities
- Potable Water Facilities
- Fire Stations
- Police Stations
- Public Health Facilities
- Schools
- Repetitive Loss Structures

ZONE

- 100-Year Flood Zone
- Area at Risk (Outside 100-Year Floodplain)



REFERENCE:
 FEMA Flood Zones Produced From FEMA Q3 Flood Data and
 Obtained From Louisiana State GIS CD.



LAFOURCHE PARISH
 HAZARD MITIGATION PLAN UPDATE

ATTACHMENT c2-17.1B

COMPOSITE RISK MAP - LOCKPORT

LAFOURCHE PARISH HAZARD MITIGATION PLAN
 LAFOURCHE PARISH, LOUISIANA

Map Document: G:\GIS Data\ArcGIS\Templates\SHAW_Template.mxd
 2/21/2008 9:06:12 AM



Legend

- Sewer Treatment Facilities
- Potable Water Facilities
- Fire Stations
- Police Stations
- Public Health Facilities
- Schools
- Repetitive Loss Structures

ZONE

- 100-Year Flood Zone
- Area at Risk (Outside 100-Year Floodplain)



REFERENCE:
FEMA Flood Zones Produced From FEMA Q3 Flood Data and
Obtained From Louisiana State GIS CD.

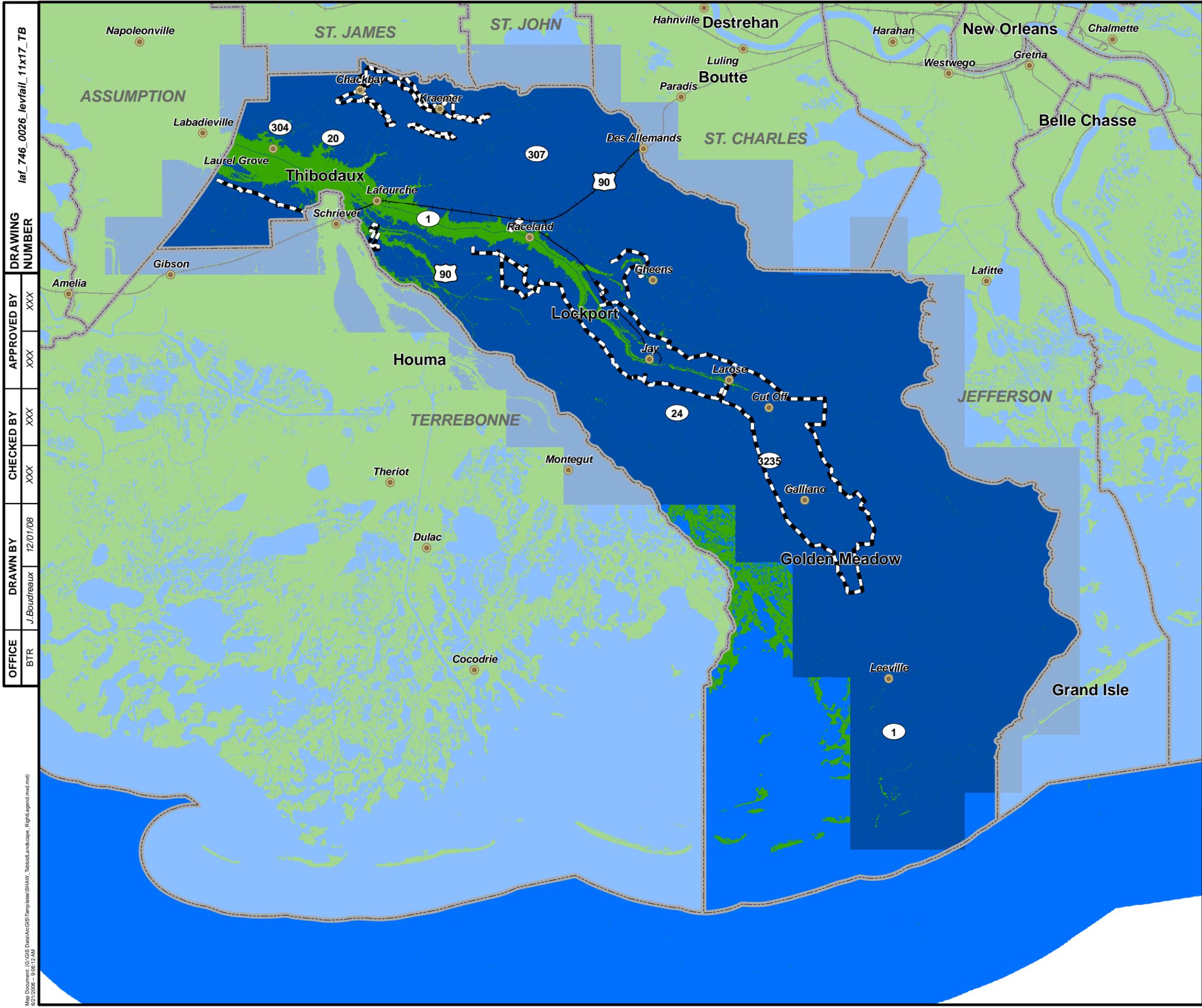


LAFOURCHE PARISH
HAZARD MITIGATION PLAN UPDATE

ATTACHMENT c2-17.1C

COMPOSITE RISK MAP - GOLDEN MEADOW

LAFOURCHE PARISH HAZARD MITIGATION PLAN
LAFOURCHE PARISH, LOUISIANA



OFFICE: BTR
 DRAWN BY: J. Boudreaux 12/01/08
 CHECKED BY: XXX
 APPROVED BY: XXX
 DRAWING NUMBER: laf_746_0026_levfail_11x17_TB



Legend

- US Highway
- State/Parish Highway
- Levees
- Area of Inundation



REFERENCE:
 Inundation Area Interpreted From USACE Historic High Water Marks.



LAFOURCHE PARISH
 HAZARD MITIGATION PLAN UPDATE

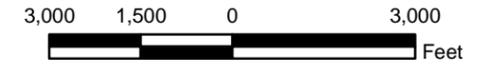
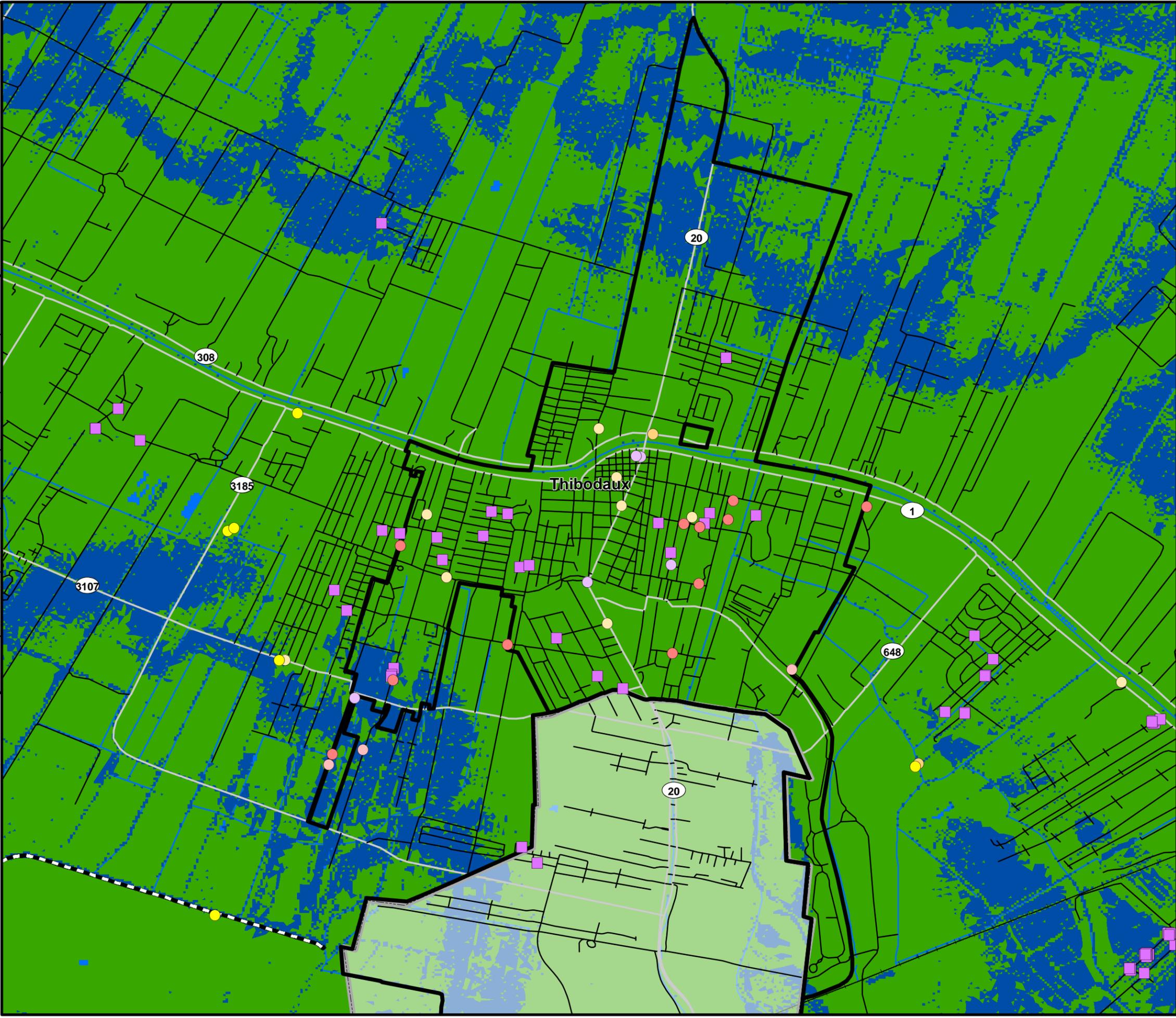
ATTACHMENT c2-18.1

LEVEE FAILURE

LAFOURCHE PARISH HAZARD MITIGATION PLAN
 LAFOURCHE PARISH, LOUISIANA

Map Document: G:\GIS Data\ArcGIS\Templates\SHAW_Template.mxd
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 DRAWN BY: J. Boudreaux
 CHECKED BY: XXX
 APPROVED BY: XXX
 DRAWING NUMBER: XXX
 laf_746_0032_levfailthib_11x17_TB



Legend

- Sewer Treatment Facilities
- Potable Water Facilities
- Fire Stations
- Police Stations
- Public Health Facilities
- Schools
- Repetitive Loss Structures
- Levees
- Area of Inundation



REFERENCE:
 FEMA Flood Zones Produced From FEMA Q3 Flood Data and
 Obtained From Louisiana State GIS CD.

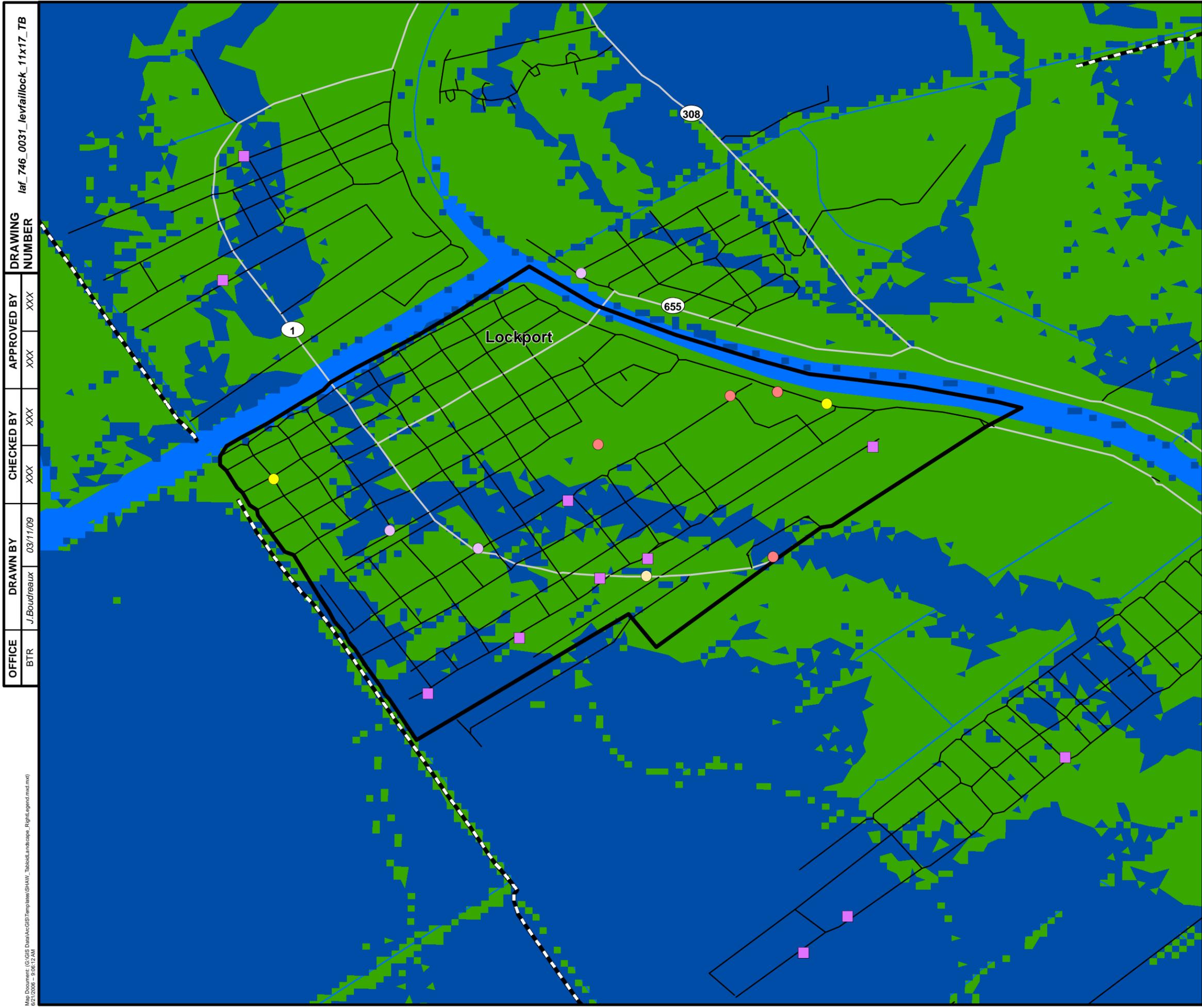


LAFOURCHE PARISH
 HAZARD MITIGATION PLAN UPDATE

ATTACHMENT c2-18.1A
LEVEE FAILURE MAP - THIBODAUX

LAFOURCHE PARISH HAZARD MITIGATION PLAN
 LAFOURCHE PARISH, LOUISIANA

Map Document: G:\GIS Data\ArcGIS\Templates\SHAW_Thibodaux.mxd
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OFFICE: BTR
 DRAWN BY: J. Boudreaux
 DRAWN BY DATE: 03/11/09
 CHECKED BY: XXX
 APPROVED BY: XXX
 DRAWING NUMBER: laf_746_0031_levfaillock_11x17_TB



Legend

- Sewer Treatment Facilities
- Potable Water Facilities
- Fire Stations
- Police Stations
- Public Health Facilities
- Schools
- Repetitive Loss Structures
- Levees
- Area of Inundation



REFERENCE:
 FEMA Flood Zones Produced From FEMA Q3 Flood Data and
 Obtained From Louisiana State GIS CD.



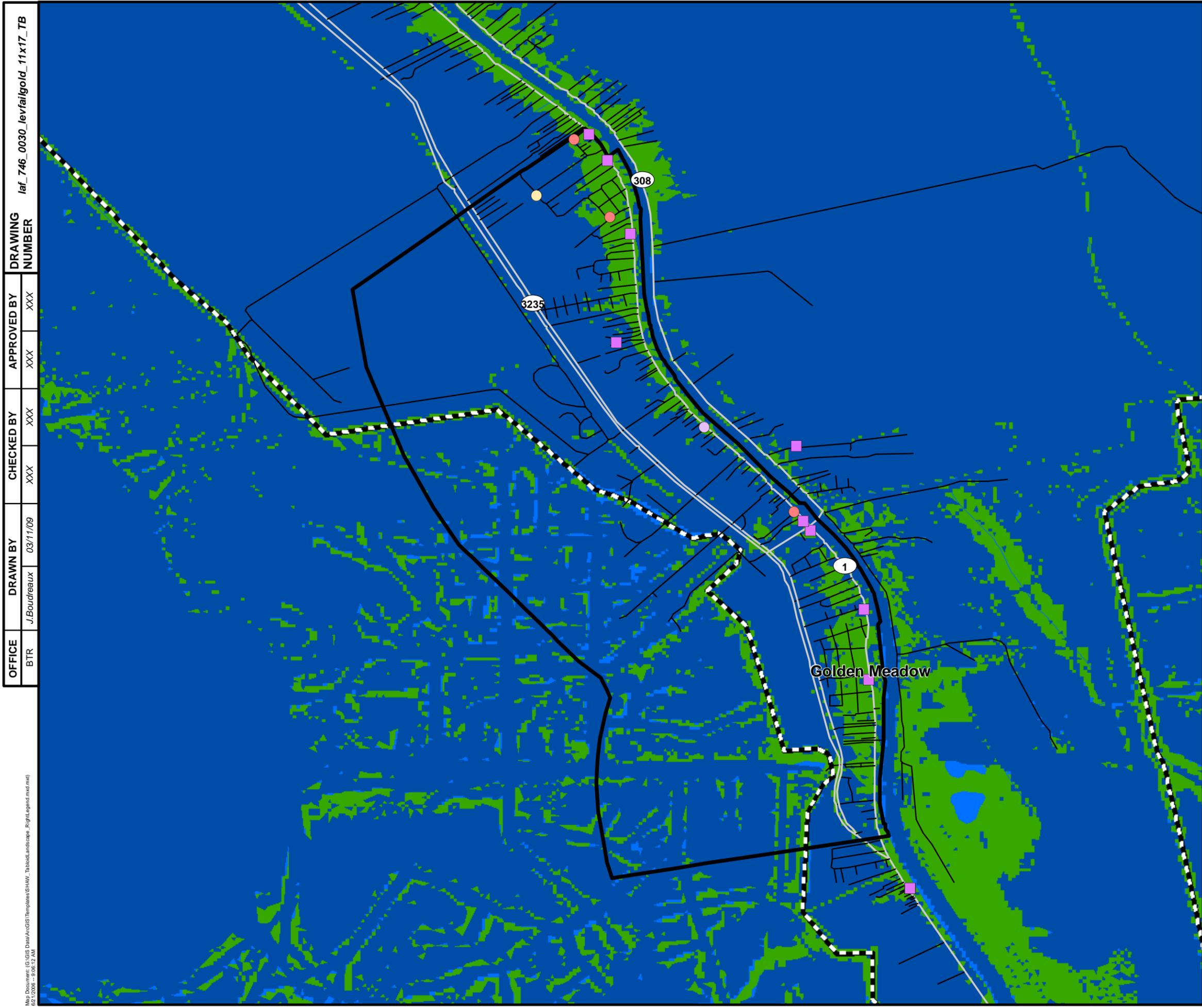
LAFOURCHE PARISH
 HAZARD MITIGATION PLAN UPDATE

ATTACHMENT c2-18.1B

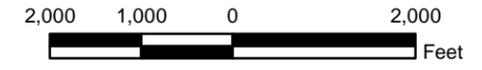
LEVEE FAILURE MAP - LOCKPORT

LAFOURCHE PARISH HAZARD MITIGATION PLAN
 LAFOURCHE PARISH, LOUISIANA

Map Document: G:\GIS Data\ArcGIS\Templates\SHAW_Template.mxd Date: 03/11/09 9:06:12 AM



OFFICE	DRAWN BY	CHECKED BY	APPROVED BY	DRAWING NUMBER
BTR	J. Boudreaux	XXX	XXX	laf_746_0030_levfailgold_11x17_TB



Legend

- Sewer Treatment Facilities
- Potable Water Facilities
- Fire Stations
- Police Stations
- Public Health Facilities
- Schools
- Repetitive Loss Structures
- Levees
- Area of Inundation



REFERENCE:
 FEMA Flood Zones Produced From FEMA Q3 Flood Data and
 Obtained From Louisiana State GIS CD.



LAFOURCHE PARISH
 HAZARD MITIGATION PLAN UPDATE

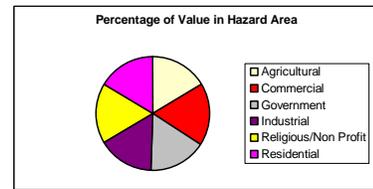
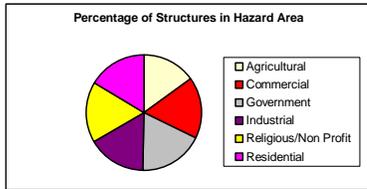
ATTACHMENT c2-18.1C
LEVEE FAILURE MAP - GOLDEN MEADOW

LAFOURCHE PARISH HAZARD MITIGATION PLAN
 LAFOURCHE PARISH, LOUISIANA

Map Document: G:\GIS Data\ArcGIS Templates\SHAW_Template.mxd; 03/11/09 8:06:12 AM

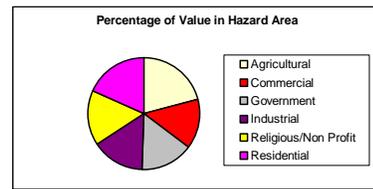
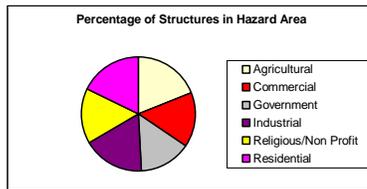
Attachment c2-19.1 Worksheet 3A—Parishwide

Flood Events						
	Number of Structures			Value of Structures		
Type of Structure (Occupancy Class)	# in Community	# in Hazard Area	% in Hazard Area	\$ in Community	\$ in Hazard Area	% in Hazard Area
Agricultural	110	69	63%	16,507,000	11,269,000	68%
Commercial	1,616	1,140	71%	727,889,000	526,899,000	72%
Government	52	39	75%	28,107,000	19,289,000	69%
Industrial	436	297	68%	221,127,000	143,704,000	65%
Religious/Non Profit	120	84	70%	71,529,000	50,769,000	71%
Residential	36,193	24,674	68%	4,614,270,000	3,134,205,000	68%
Schools	52	33	63%	54,522,000	36,077,000	66%
Total	38,579	26,336	68%	5,733,951,000	3,922,212,000	68%



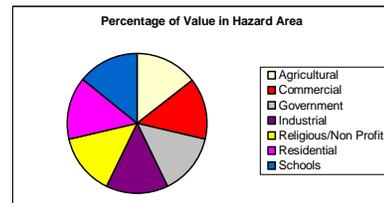
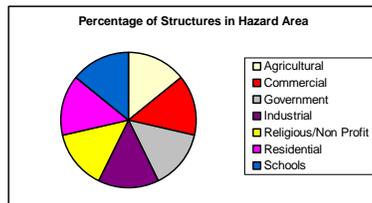
Number of People		
# in Community	# in Hazard Area	% in Hazard Area
89,974	61,217	68%

Levee Failure						
	Number of Structures			Value of Structures		
Type of Structure (Occupancy Class)	# in Community	# in Hazard Area	% in Hazard Area	\$ in Community	\$ in Hazard Area	% in Hazard Area
Agricultural	110	91	83%	16,507,000	14,582,000	88%
Commercial	1,616	1,106	68%	727,889,000	443,726,000	61%
Government	52	34	65%	28,107,000	18,110,000	64%
Industrial	436	338	78%	221,127,000	144,478,000	65%
Religious/Non Profit	120	82	68%	71,529,000	48,002,000	67%
Residential	36,193	28,192	78%	4,614,270,000	3,584,540,000	78%
Schools	52	32	62%	54,522,000	23,780,000	44%
Total	38,579	29,875	77%	5,733,951,000	4,277,218,000	75%



Number of People		
# in Community	# in Hazard Area	% in Hazard Area
89,974	71,134	79%

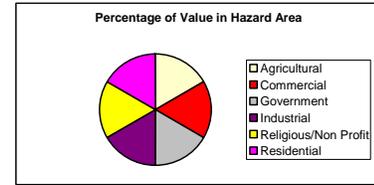
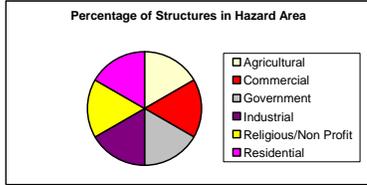
Hurricane						
	Number of Structures			Value of Structures		
Type of Structure (Occupancy Class)	# in Community	# in Hazard Area	% in Hazard Area	\$ in Community	\$ in Hazard Area	% in Hazard Area
Agricultural	110	32	29%	16,507,000	4,787,030	29%
Commercial	1,616	469	29%	727,889,000	211,087,810	29%
Government	52	15	29%	28,107,000	8,151,030	29%
Industrial	436	126	29%	221,127,000	64,126,830	29%
Religious/Non Profit	120	35	29%	71,529,000	20,743,410	29%
Residential	36,193	10,496	29%	4,614,270,000	1,338,138,300	29%
Schools	52	15	29%	54,522,000	15,811,380	29%
Total	38,579	11,188	29%	5,733,951,000	1,662,845,790	29%



Number of People		
# in Community	# in Hazard Area	% in Hazard Area
89,974	26,092	29%

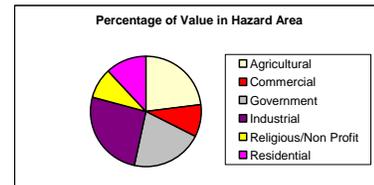
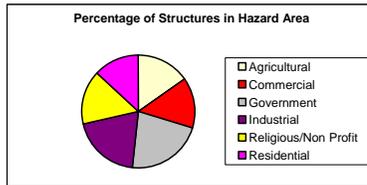
Attachment c2-19.2 Worksheet 3A—Thibodaux

Flood Events						
Type of Structure (Occupancy Class)	Number of Structures			Value of Structures		
	# in Community	# in Hazard Area	% in Hazard Area	\$ in Community	\$ in Hazard Area	% in Hazard Area
Agricultural	16	16	100%	2,380,000	2,380,000	100%
Commercial	484	484	100%	257,081,000	257,081,000	100%
Government	25	25	100%	14,566,000	14,566,000	100%
Industrial	71	71	100%	39,363,000	39,363,000	100%
Religious/Non Profit	39	39	100%	20,899,000	20,899,000	100%
Residential	6,260	6,260	100%	837,079,000	837,079,000	100%
Schools	20	20	100%	29,669,000	29,669,000	100%
Total	6,915	6,915	100%	1,201,037,000	1,201,037,000	100%



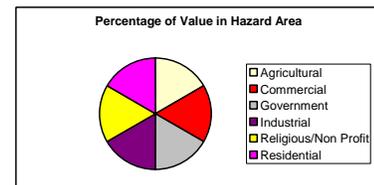
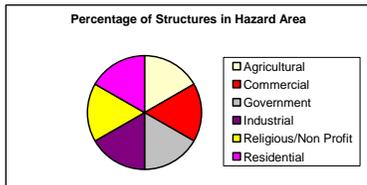
Number of People		
# in Community	# in Hazard Area	%in Hazard Area
15,586	15,586	100%

Levee Failure						
Type of Structure (Occupancy Class)	Number of Structures			Value of Structures		
	# in Community	# in Hazard Area	% in Hazard Area	\$ in Community	\$ in Hazard Area	% in Hazard Area
Agricultural	16	4	25%	2,380,000	1,078,000	45%
Commercial	484	115	24%	257,081,000	47,911,000	19%
Government	25	9	36%	14,566,000	5,994,000	41%
Industrial	71	23	32%	39,363,000	20,003,000	51%
Religious/Non Profit	39	10	26%	20,899,000	3,622,000	17%
Residential	6,260	1,339	21%	837,079,000	197,891,000	24%
Schools	20	4	20%	29,669,000	3,099,000	10%
Total	6,915	1,504	22%	1,201,037,000	279,598,000	23%



Number of People		
# in Community	# in Hazard Area	%in Hazard Area
15,586	3,795	24%

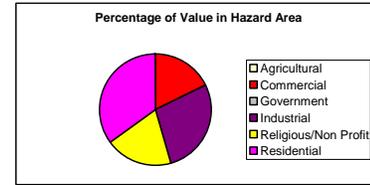
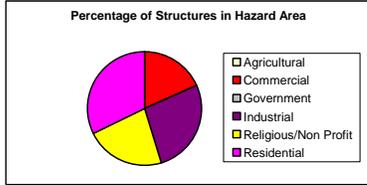
Hurricane						
Type of Structure (Occupancy Class)	Number of Structures			Value of Structures		
	# in Community	# in Hazard Area	% in Hazard Area	\$ in Community	\$ in Hazard Area	% in Hazard Area
Agricultural	16	5	29%	2,380,000	690,200	29%
Commercial	484	140	29%	257,081,000	74,553,490	29%
Government	25	7	29%	14,566,000	4,224,140	29%
Industrial	71	21	29%	39,363,000	11,415,270	29%
Religious/Non Profit	39	11	29%	20,899,000	6,060,710	29%
Residential	6,260	1,815	29%	837,079,000	242,752,910	29%
Schools	20	6	29%	29,669,000	8,604,010	29%
Total	6,915	2,005	29%	1,201,037,000	348,300,730	29%



Number of People		
# in Community	# in Hazard Area	%in Hazard Area
15,586	15,586	100%

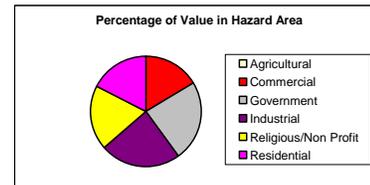
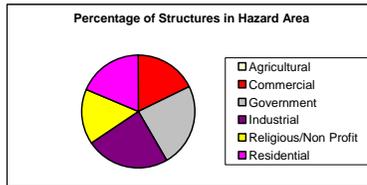
Attachment c2-19.3 Worksheet 3A—Lockport

Flood Events						
Type of Structure (Occupancy Class)	Number of Structures			Value of Structures		
	# in Community	# in Hazard Area	% in Hazard Area	\$ in Community	\$ in Hazard Area	% in Hazard Area
Agricultural	0	0	0%	0	0	0%
Commercial	70	19	27%	17,301,000	3,702,000	21%
Government	1	0	0%	192,000	0	0%
Industrial	10	4	40%	2,507,000	827,000	33%
Religious/Non Profit	3	1	33%	4,422,000	1,040,000	24%
Residential	1,411	672	48%	135,191,000	56,516,000	42%
Schools	4	1	25%	4,025,000	443,000	11%
Total	1,499	697	46%	163,638,000	62,528,000	38%



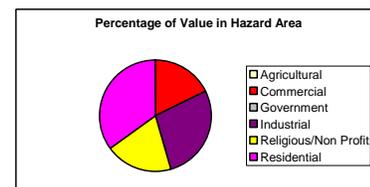
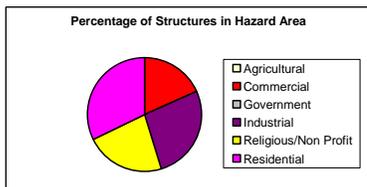
Number of People		
# in Community	# in Hazard Area	%in Hazard Area
2,641	1,234	47%

Levee Failure						
Type of Structure (Occupancy Class)	Number of Structures			Value of Structures		
	# in Community	# in Hazard Area	% in Hazard Area	\$ in Community	\$ in Hazard Area	% in Hazard Area
Agricultural	0	0	0%	0	0	0%
Commercial	70	52	74%	17,301,000	12,126,000	70%
Government	1	1	100%	192,000	192,000	100%
Industrial	10	10	100%	2,507,000	2,507,000	100%
Religious/Non Profit	3	2	67%	4,422,000	3,547,000	80%
Residential	1,411	1,100	78%	135,191,000	100,235,000	74%
Schools	4	2	50%	4,025,000	1,555,000	39%
Total	1,499	1,167	78%	163,638,000	120,162,000	73%



Number of People		
# in Community	# in Hazard Area	%in Hazard Area
2,641	2,054	78%

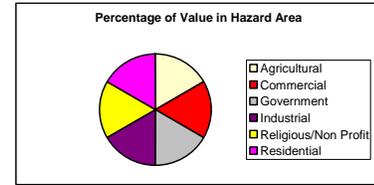
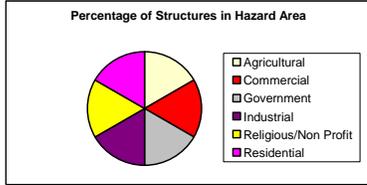
Hurricane						
Type of Structure (Occupancy Class)	Number of Structures			Value of Structures		
	# in Community	# in Hazard Area	% in Hazard Area	\$ in Community	\$ in Hazard Area	% in Hazard Area
Agricultural	0	0	29%	0	0	29%
Commercial	70	20	29%	17,301,000	5,017,290	29%
Government	1	0	29%	192,000	55,680	29%
Industrial	10	3	29%	2,507,000	727,030	29%
Religious/Non Profit	3	1	29%	4,422,000	1,282,380	29%
Residential	1,411	409	29%	135,191,000	39,205,390	29%
Schools	4	1	29%	4,025,000	1,167,250	29%
Total	1,499	435	29%	163,638,000	47,455,020	29%



Number of People		
# in Community	# in Hazard Area	%in Hazard Area
2,641	1,234	47%

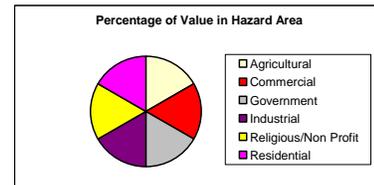
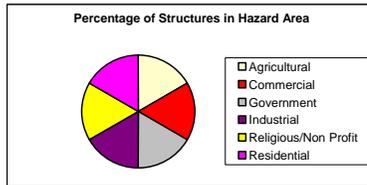
Attachment c2-19.4 Worksheet 3A—Golden Meadow

Flood Events						
Type of Structure (Occupancy Class)	Number of Structures			Value of Structures		
	# in Community	# in Hazard Area	% in Hazard Area	\$ in Community	\$ in Hazard Area	% in Hazard Area
Agricultural	5	5	100%	612,000	612,000	100%
Commercial	66	66	100%	22,223,000	22,223,000	100%
Government	2	2	100%	570,000	570,000	100%
Industrial	11	11	100%	3,112,000	3,112,000	100%
Religious/Non Profit	3	3	100%	2,404,000	2,404,000	100%
Residential	1,169	1,169	100%	124,779,000	124,779,000	100%
Schools	4	4	100%	3,660,000	3,660,000	100%
Total	1,260	1,260	100%	157,360,000	157,360,000	100%



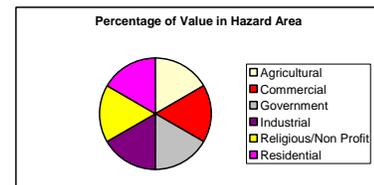
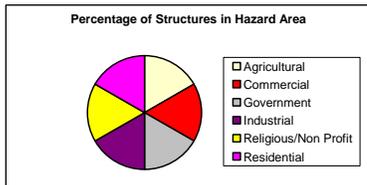
Number of People		
# in Community	# in Hazard Area	% in Hazard Area
2,584	2,584	100%

Levee Failure						
Type of Structure (Occupancy Class)	Number of Structures			Value of Structures		
	# in Community	# in Hazard Area	% in Hazard Area	\$ in Community	\$ in Hazard Area	% in Hazard Area
Agricultural	5	5	100%	612,000	612,000	100%
Commercial	66	66	100%	22,223,000	22,223,000	100%
Government	2	2	100%	570,000	570,000	100%
Industrial	11	11	100%	3,112,000	3,112,000	100%
Religious/Non Profit	3	3	100%	2,404,000	2,404,000	100%
Residential	1,169	1,169	100%	124,779,000	124,779,000	100%
Schools	4	4	100%	3,660,000	3,660,000	100%
Total	1,260	1,260	100%	157,360,000	157,360,000	100%



Number of People		
# in Community	# in Hazard Area	% in Hazard Area
2,584	2,584	100%

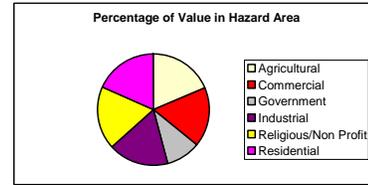
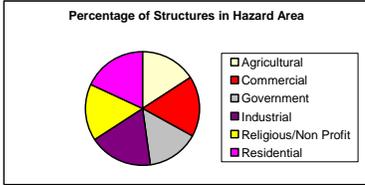
Hurricane						
Type of Structure (Occupancy Class)	Number of Structures			Value of Structures		
	# in Community	# in Hazard Area	% in Hazard Area	\$ in Community	\$ in Hazard Area	% in Hazard Area
Agricultural	5	1	29%	612,000	177,480	29%
Commercial	66	19	29%	22,223,000	6,444,670	29%
Government	2	1	29%	570,000	165,300	29%
Industrial	11	3	29%	3,112,000	902,480	29%
Religious/Non Profit	3	1	29%	2,404,000	697,160	29%
Residential	1,169	339	29%	124,779,000	36,185,910	29%
Schools	4	1	29%	3,660,000	1,061,400	29%
Total	1,260	365	29%	157,360,000	45,634,400	29%



Number of People		
# in Community	# in Hazard Area	% in Hazard Area
2,584	749	29%

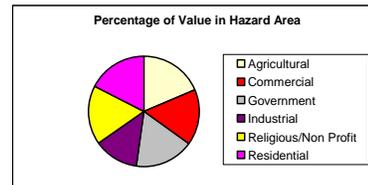
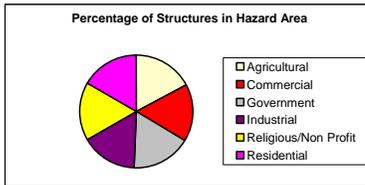
Attachment c2-19.5 Worksheet 3A—Unincorporated

Flood Events						
Type of Structure (Occupancy Class)	Number of Structures			Value of Structures		
	# in Community	# in Hazard Area	% in Hazard Area	\$ in Community	\$ in Hazard Area	% in Hazard Area
Agricultural		48	54%	13,515,000	8,277,000	61%
Commercial	996	571	57%	431,284,000	243,893,000	57%
Government	24	12	50%	12,779,000	4,153,000	32%
Industrial	344	211	61%	178,545,000	102,802,000	58%
Religious/Non Profit	75	41	55%	43,804,000	26,426,000	60%
Residential	27,353	16,573	61%	3,517,221,000	2,115,831,000	60%
Schools	24	8	33%	17,168,000	2,305,000	13%
Total	28,905	17,464	60%	4,214,316,000	2,503,687,000	59%



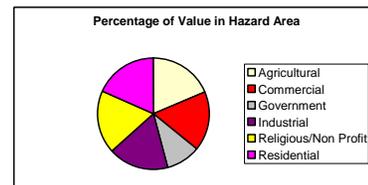
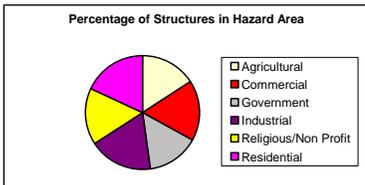
Number of People		
# in Community	# in Hazard Area	% in Hazard Area
69,163	41,813	60%

Levee Failure						
Type of Structure (Occupancy Class)	Number of Structures			Value of Structures		
	# in Community	# in Hazard Area	% in Hazard Area	\$ in Community	\$ in Hazard Area	% in Hazard Area
Agricultural	89	82	92%	13,515,000	12,892,000	95%
Commercial	996	873	88%	431,284,000	361,466,000	84%
Government	24	22	92%	12,779,000	11,354,000	89%
Industrial	344	294	85%	178,545,000	118,856,000	67%
Religious/Non Profit	75	67	89%	43,804,000	38,429,000	88%
Residential	27,353	24,584	90%	3,517,221,000	3,161,635,000	90%
Schools	24	22	92%	17,168,000	15,466,000	90%
Total	28,905	25,944	90%	4,214,316,000	3,720,098,000	88%



Number of People		
# in Community	# in Hazard Area	% in Hazard Area
69,163	62,701	91%

Hurricane						
Type of Structure (Occupancy Class)	Number of Structures			Value of Structures		
	# in Community	# in Hazard Area	% in Hazard Area	\$ in Community	\$ in Hazard Area	% in Hazard Area
Agricultural	89	26	29%	13,515,000	3,919,350	29%
Commercial	996	289	29%	431,284,000	125,072,360	29%
Government	24	7	29%	12,779,000	3,705,910	29%
Industrial	344	100	29%	178,545,000	51,778,050	29%
Religious/Non Profit	75	22	29%	43,804,000	12,703,160	29%
Residential	27,353	7,932	29%	3,517,221,000	1,019,994,090	29%
Schools	24	7	29%	17,168,000	4,978,720	29%
Total	28,905	8,382	29%	4,214,316,000	1,222,151,640	29%



Number of People		
# in Community	# in Hazard Area	% in Hazard Area
69,163	20,057	29%

**Attachment c2-20
List of Critical Facilities**

List of Critical Facilities			
Type of Asset	Name/Description of Structure		
Essential Facilities	Hospitals	Thibodaux Regional Medical Center	
		Oschner/St. Anne Hospital	
		Lady of the Sea Hospital	
		Lafourche Parish Health Unit	
	EMS	Lafourche Parish Health Unit	
		Department of Health and Hospitals	
	Police Stations	Thibodaux Police Department	
		Lafourche Parish Sheriff Canal Blvd.	
		Lafourche Parish Sheriff Goode Street	
		Lafourche Parish Sheriff Hwy 1	
		Lafourche Parish Sheriff Main Street	
		Lafourche Parish Sheriff West 2nd Street	
		Lafourche Parish Sheriff Hwy 3185	
		Lafourche Parish Sheriff Hwy 90	
		Lafourche Parish Sheriff Crescent Avenue	
		Lafourche Parish Sheriff Ninety First Street	
		Lockport Police Department	
		Golden Meadow Police Department	
		Greater Lafourche Port Commission and Harbor Police	
		Greater Lafourche Port Commission Harbor Police, Port Fourchon Office	
		Fire Stations	Lafourche District #1 Central Station
			Lafourche District #1 Station #2
			Lafourche District #1 Station #3
	Lafourche District #1 Station #4		
	Lafourche District #1 Station #5		
	Lafourche District #1 Station #6		
	Lafourche District #1 Station #7		
	Lockport Fire Department Mathews Station		
	Lockport Fire Department Lockport Heights Station		
	Lockport Fire Department Bellevue Station		
	Lockport Fire Department 308 Station		
	Lockport Fire Department Valentine Station		
	Lockport Fire Department Lockport Central		
	Lafourche Fire District #3 North Larose Station		
	Lafourche Fire District #3 West Larose Station		
	Lafourche Fire District #3 East Larose Station		
	Lafourche Fire District #3 West Cut Off Station		
	Lafourche Fire District #3 East Cut Off Station		
	Lafourche Fire District #3 Belle Amie Station		
	Lafourche Fire District #3 Central Station		
	Lafourche Fire District #3 West Galliano Station		
	Lafourche Fire District #3 East Galliano Station		
	Lafourche Fire District #3 North Golden Meadow		
	Lafourche Fire District #3 South Golden Meadow		
	Lafourche Fire District #3 Leeville Station		
	Lafourche Fire District #3 Port Fourchon Station		
	Bayou Blue Fire Department Central Station		
Bayou Blue Fire Department Station #2			
Bayou Blue Fire Department Station #3			
Vacherie/Gheens Fire Station #1			
Vacherie/Gheens Fire Station #2			
Thibodaux Fire Department Station #1			
Thibodaux Fire Department Station #2			
Thibodaux Fire Department Station #3			
Thibodaux Fire Department Station #4			
Thibodaux Fire Department Station #5			
Thibodaux Fire Department Station #6			
Thibodaux Fire Department Station #7			
Thibodaux Fire Department Station #8			
Thibodaux Fire Department Station #9			
Chackbay Fire Department Station #1			
Chackbay Fire Department Station #2			
Choctaw Fire Department Station #1			

Type of Asset		Name/Description of Structure
Essential Facilities cont.	Fire Stations cont.	Choctaw Fire Department Station #2
		Bayou Boeuf Fire Department Station #1
		St. John Fire Department Station #1
		St. John Fire Department Station #2
		St. John Fire Department Station #3
	Lafourche Crossing 308 Fire Department	
	Schools	Bayou Blue Elementary
		Bayou Boeuf Elementary
		Chackbay Elementary
		Cut Off Elementary
		Galliano Elementary
		Golden Meadow Lower Elementary
		Golden Meadow Upper Elementary
		W.S. Lafargue Elementary
		Larose Lower Elementary
		Lockport Lower Elementary
	Lockport Upper Elementary	
	Schools cont.	Raceland Lower Elementary
		Raceland Upper Elementary
		St. Charles Elementary
		South Thibodaux Elementary
		Thibodaux Elementary
		Bayou Blue Middle
		East Thibodaux Middle
		Golden Meadow Middle
		Larose-Cut Off Middle
		Lockport Middle
		Raceland Middle
		Sixth Ward Elementary
		West Thibodaux Middle
		Central Lafourche High
		South Lafourche High
		Thibodaux High
		Thibodaux Site
		North Campus
South Campus		
Bayou Lafourche Marine Institute		
Lafourche Parish Juvenile Justice		
Nicholls State University		
E.D. White Catholic High		
Holy Rosary Elementary		
Holy Savior Elementary		
St. Genevieve Elementary		
St. Mary's Nativity School		
St. Joseph Elementary		
Utilities	Sewage Treatment	Aucoin's Sewer Utility-Bon Serv
		City of Thibodaux Waste Water Treatment
		Community Sewerage Service-Thibodaux
		Community Sewerage Service-St Maurice
		Lafourche Ph Sewer-Bayou Vista
		Lewistown Community Sewerage
		Lockport-Town of-WWTP
		ML Lytal Supply Boats Inc.
		Service Sanitary Corporation-Thibodaux
		TESI-Magnolia Park Service
		TESI-Plantation/Leighton
		Twin Oaks Service Corporation-Raceland
		Woodland Heights Inc.
	Potable Water	Lafourche Parish Water District No. 1-Central
		Golden Meadow Reverse Osmosis
		Lafourche Parish Water District No. 1-North
		City of Thibodaux Water Plant

**Attachment c2-21
Identification of Critical Facilities in Hazard Areas**

List of Critical Facilities							
Type of Asset	Name/Description of Structure	100-Year Floodplain	Composite Risk	Levee Failure			
Essential Facilities	Hospitals	Thibodaux Regional Medical Center		X			
		Oschner/St. Anne Hospital					
		Lady of the Sea Hospital	X	X	X		
	EMS	Lafourche Parish Health Unit	X	X	X		
		Lafourche Parish Health Unit	X	X	X		
		Department of Health and Hospitals		X	X		
	Police Stations	Thibodaux Police Department		X			
		Lafourche Parish Sheriff Canal Blvd.		X			
		Lafourche Parish Sheriff Goode Street	X	X			
		Lafourche Parish Sheriff Hwy 1					
		Lafourche Parish Sheriff Main Street					
		Lafourche Parish Sheriff West 2nd Street		X			
		Lafourche Parish Sheriff Hwy 3185		X	X		
		Lafourche Parish Sheriff Hwy 90	X	X	X		
		Lafourche Parish Sheriff Crescent Avenue	X	X	X		
		Lafourche Parish Sheriff Ninety First Street	X	X	X		
		Lockport Police Department	X	X	X		
		Golden Meadow Police Department	X	X	X		
		Greater Lafourche Port Commission and Harbor Police	X	X	X		
		Greater Lafourche Port Commission Harbor Police, Port Fourchon Office	X	X	X		
		Fire Stations	Lafourche District #1 Central Station				
			Lafourche District #1 Station #2				
			Lafourche District #1 Station #3				
	Lafourche District #1 Station #4						
	Lafourche District #1 Station #5						
	Lafourche District #1 Station #6						
	Lafourche District #1 Station #7						
	Lockport Fire Department Mathews Station						
	Lockport Fire Department Lockport Heights Station		X	X	X		
	Lockport Fire Department Bellevue Station						
	Lockport Fire Department 308 Station						
	Lockport Fire Department Valentine Station						
	Lockport Fire Department Lockport Central		X	X	X		
	Lafourche Fire District #3 North Larose Station						
	Lafourche Fire District #3 West Larose Station						
	Lafourche Fire District #3 East Larose Station						
	Lafourche Fire District #3 West Cut Off Station		X	X	X		
	Lafourche Fire District #3 East Cut Off Station		X	X	X		
	Lafourche Fire District #3 Belle Amie Station		X	X	X		
	Lafourche Fire District #3 Central Station		X	X	X		
	Lafourche Fire District #3 West Galliano Station		X	X	X		
	Lafourche Fire District #3 East Galliano Station		X	X	X		
	Lafourche Fire District #3 North Golden Meadow		X	X	X		
	Lafourche Fire District #3 South Golden Meadow		X	X	X		
	Lafourche Fire District #3 Leeville Station		X	X	X		
	Lafourche Fire District #3 Port Fourchon Station		X	X	X		
	Bayou Blue Fire Department Central Station						
	Bayou Blue Fire Department Station #2						
	Bayou Blue Fire Department Station #3						
	Vacherie/Gheens Fire Station #1						
Vacherie/Gheens Fire Station #2							
Thibodaux Fire Department Station #1				X			
Thibodaux Fire Department Station #2				X			
Thibodaux Fire Department Station #3			X				
Thibodaux Fire Department Station #4	X	X	X				
Thibodaux Fire Department Station #5			X				
Thibodaux Fire Department Station #6	X	X					
Thibodaux Fire Department Station #7			X				
Thibodaux Fire Department Station #8			X				
Thibodaux Fire Department Station #9			X				
Chackbay Fire Department Station #1			X				
Chackbay Fire Department Station #2				X			

Type of Asset		Name/Description of Structure	100-Year Floodplain	Composite Risk	Levee Failure		
Essential Facilities Cont.	Fire Stations Cont.	Choctaw Fire Department Station #1			X		
		Choctaw Fire Department Station #2	X	X	X		
		Bayou Boeuf Fire Department Station #1	X	X	X		
		St. John Fire Department Station #1					
		St. John Fire Department Station #2		X			
		St. John Fire Department Station #3		X			
		Lafourche Crossing 308 Fire Department					
	Schools		Bayou Blue Elementary				
			Bayou Boeuf Elementary	X	X	X	
			Chackbay Elementary			X	
			Cut Off Elementary	X	X	X	
			Galliano Elementary	X	X	X	
			Golden Meadow Lower Elementary	X	X	X	
			Golden Meadow Upper Elementary	X	X	X	
			W.S. Lafargue Elementary		X		
			Larose Lower Elementary	X	X	X	
			Larose Upper Elementary				
			Lockport Lower Elementary			X	
			Lockport Upper Elementary				
			Raceland Lower Elementary				
			Raceland Upper Elementary				
			St. Charles Elementary				
			South Thibodaux Elementary		X		
			Thibodaux Elementary	X	X		
			Bayou Blue Middle	X	X	X	
			East Thibodaux Middle		X		
			Golden Meadow Middle	X	X	X	
			Larose-Cut Off Middle				
			Lockport Middle				
			Raceland Middle				
			Sixth Ward Elementary			X	
			West Thibodaux Middle		X		
			Central Lafourche High				
			South Lafourche High	X	X	X	
			Thibodaux High		X	X	
			Thibodaux Site		X		
			North Campus		X		
			South Campus	X	X	X	
			Bayou Lafourche Marine Institute	X	X	X	
			Lafourche Parish Juvenile Justice	X	X	X	
			Nicholls State University		X		
			E.D. White Catholic High		X		
Holy Rosary Elementary	X	X					
Holy Savior Elementary							
St. Genevieve Elementary		X					
St. Mary's Nativity School							
St. Joseph Elementary		X					
Utilities	Sewage Treatment	Aucoin's Sewer Utility-Bon Serv	X	X	X		
		City of Thibodaux Waste Water Treatment	X	X	X		
		Community Sewerage Service-Thibodaux		X			
		Community Sewerage Service-St Maurice		X	X		
		Lafourche Ph Sewer-Bayou Vista	X	X	X		
		Lewistown Community Sewerage	X	X	X		
		Lockport-Town of-WWTP	X	X	X		
		ML Lytal Supply Boats Inc.					
		Service Sanitary Corporation-Thibodaux		X			
		TESI-Magnolia Park Service		X			
		TESI-Plantation/Leighton		X			
		Twin Oaks Service Corporation-Raceland	X	X	X		
		Woodland Heights Inc.			X		
		Utilities, Cont.	Potable Water	Lafourche Parish Water District No. 1-Central	X	X	
				Golden Meadow Reverse Osmosis	X	X	X
Lafourche Parish Water District No. 1-North	X			X	X		
City of Thibodaux Water Plant				X			

Attachment c2-22 List of Repetitive Loss Structures

Community Name	CID	RL #	MIT?	INS?	City	Zip Code	Occupancy	Zone	Firm	L	Total Paid	County Name	SRL Indicator
LAFORCHE PARISH*	225202	0097770	NO	NO	GOLDEN MEADOW	703570000	NON RESIDENT	AE	N	2	44,562.64	LAFORCHE PARISH	
LAFORCHE PARISH*	225202	0038456	YES	NO	BAYOU	999999999	SINGLE FMLY	A	N	3	18,549.61	LAFORCHE PARISH	
LAFORCHE PARISH*	225202	0120566	NO	YES	CUT OFF	703450000	OTHER RESID	A13	N	3	97,167.54	LAFORCHE PARISH	
LAFORCHE PARISH*	225202	0159115	NO	NO	CUT OFF	703450000	SINGLE FMLY	A13	N	3	69,216.75	LAFORCHE PARISH	
LAFORCHE PARISH*	225202	0155096	NO	YES	CUT OFF	703452902	SINGLE FMLY	A13	N	2	4,600.00	LAFORCHE PARISH	
LAFORCHE PARISH*	225202	0132274	NO	YES	CUT OFF	703454015	SINGLE FMLY	A99	N	2	9,037.41	LAFORCHE PARISH	
LAFORCHE PARISH*	225202	0012156	NO	SDF	CUT OFF	703452050	SINGLE FMLY	A99	N	7	45,957.66	LAFORCHE PARISH	
LAFORCHE PARISH*	225202	0105701	NO	NO	CUT OFF	703452510	SINGLE FMLY	A99	N	2	12,945.44	LAFORCHE PARISH	
LAFORCHE PARISH*	225202	0060960	NO	NO	CUT OFF	703452509	SINGLE FMLY	A99	N	4	47,821.32	LAFORCHE PARISH	
LAFORCHE PARISH*	225202	0144203	NO	SDF	CUT OFF	703452509	SINGLE FMLY	A99	N	5	172,225.42	LAFORCHE PARISH	
LAFORCHE PARISH*	225202	0151982	NO	YES	CUT OFF	703452510	SINGLE FMLY	A99	N	2	64,294.42	LAFORCHE PARISH	
LAFORCHE PARISH*	225202	0160513	NO	YES	CUT OFF	703452280	SINGLE FMLY	A99	Y	3	19,805.20	LAFORCHE PARISH	
LAFORCHE PARISH*	225202	0049823	NO	SDF	CUT OFF	703450000	SINGLE FMLY	EMG	N	3	13,350.84	LAFORCHE PARISH	
LAFORCHE PARISH*	225202	0142273	NO	NO	CUT OFF	703453045	SINGLE FMLY	A99	Y	3	23,566.55	LAFORCHE PARISH	
LAFORCHE PARISH*	225202	0173875	NO	NO	CUT OFF	703453163	SINGLE FMLY	A99	Y	3	9,732.00	LAFORCHE PARISH	
LAFORCHE PARISH*	225202	0130720	NO	SDF	CUT OFF	703453132	SINGLE FMLY	A99	N	2	29,044.86	LAFORCHE PARISH	
LAFORCHE PARISH*	225202	0036901	NO	YES	CUT OFF	703450062	SINGLE FMLY	EMG	N	4	73,642.32	LAFORCHE PARISH	
LAFORCHE PARISH*	225202	0005839	NO	SDF	CUT OFF	703452258	NON RESIDENT	A99	N	2	15,176.82	LAFORCHE PARISH	
LAFORCHE PARISH*	225202	0173943	NO	YES	CUT OFF	703450000	SINGLE FMLY	A99	N	9	15,063.53	LAFORCHE PARISH	
LAFORCHE PARISH*	225202	0140544	NO	YES	CUT OFF	703453239	SINGLE FMLY	A99	N	2	42,109.38	LAFORCHE PARISH	
LAFORCHE PARISH*	225202	0004001	YES	NO	CUT OFF	70345	SINGLE FMLY	AE	N	4	49,811.63	LAFORCHE PARISH	
LAFORCHE PARISH*	225202	0101382	NO	YES	CUTOFF	703452510	SINGLE FMLY	A99	N	2	21,700.00	LAFORCHE PARISH	
LAFORCHE PARISH*	225202	0119700	NO	YES	DES ALLEMANS	703040645	SINGLE FMLY	A	N	3	53,982.99	LAFORCHE PARISH	
LAFORCHE PARISH*	225202	0142084	NO	YES	DES ALLEMANS	703030000	2-4 FAMILLY	A	N	2	9,323.02	LAFORCHE PARISH	
LAFORCHE PARISH*	225202	0162898	NO	YES	FOURCHON	703570000	SINGLE FMLY	A13	Y	2	78,434.27	LAFORCHE PARISH	
LAFORCHE PARISH*	225202	0164095	NO	YES	FOURCHON	703575683	SINGLE FMLY	AE	N	2	14,122.25	LAFORCHE PARISH	
LAFORCHE PARISH*	225202	0123824	NO	YES	FOURCHON	70357	SINGLE FMLY	AE	N	2	14,954.02	LAFORCHE PARISH	
LAFORCHE PARISH*	225202	0001355	NO	YES	GALLIANO	70354	SINGLE FMLY	AE	N	3	11,877.55	LAFORCHE PARISH	
LAFORCHE PARISH*	225202	0024129	NO	YES	GALLIANO	703540301	NON RESIDENT	A	N	2	19,251.35	LAFORCHE PARISH	
LAFORCHE PARISH*	225202	0127810	NO	NO	GALLIANO	70354	SINGLE FMLY	A99	Y	2	6,279.32	LAFORCHE PARISH	
GOLDEN MEADOW, TOWN OF	225196	0099842	NO	YES	GOLDEN MEADOW	703572926	NON RESIDENT	A99	N	2	184,303.76	LAFORCHE PARISH	
GOLDEN MEADOW, TOWN OF	225196	0072838	NO	YES	GOLDEN MEADOW	703573014	SINGLE FMLY	A99	N	3	11,023.81	LAFORCHE PARISH	
GOLDEN MEADOW, TOWN OF	225196	0169213	NO	NO	GOLDEN MEADOW	703572341	SINGLE FMLY	A99	N	4	12,203.90	LAFORCHE PARISH	
GOLDEN MEADOW, TOWN OF	225196	0139005	NO	YES	GOLDEN MEADOW	703572834	NON RESIDENT	A99	N	2	100,724.16	LAFORCHE PARISH	
GOLDEN MEADOW, TOWN OF	225196	0003078	NO	NO	GOLDEN MEADOW	703573009	NON RESIDENT	A10	N	4	44,856.90	LAFORCHE PARISH	
GOLDEN MEADOW, TOWN OF	225196	0061008	NO	NO	GOLDEN MEADOW	703570000	SINGLE FMLY	AE	N	3	15,896.19	LAFORCHE PARISH	
LAFORCHE PARISH*	225202	0168582	NO	SDF	GOLDEN MEADOW	703570000	SINGLE FMLY	AE	N	4	80,368.58	LAFORCHE PARISH	
LAFORCHE PARISH*	225202	00124984	NO	YES	GOLDEN MEADOW	703570000	SINGLE FMLY	A13	N	2	84,376.97	LAFORCHE PARISH	
LAFORCHE PARISH*	225202	0011776	NO	NO	GOLDEN MEADOW	703570000	SINGLE FMLY	A	N	3	24,315.00	LAFORCHE PARISH	
LAFORCHE PARISH*	225202	0119907	NO	SDF	GOLDEN MEADOW	703570000	SINGLE FMLY	A99	N	4	67,588.45	LAFORCHE PARISH	
LAFORCHE PARISH*	225202	00124305	NO	NO	GOLDEN MEADOW	703575220	SINGLE FMLY	A99	N	3	59,816.85	LAFORCHE PARISH	
LAFORCHE PARISH*	225202	0012516	NO	SDF	GOLDEN MEADOW	703570000	NON RESIDENT	A17	N	2	69,323.17	LAFORCHE PARISH	
LAFORCHE PARISH*	225202	0002441	NO	NO	GOLDEN MEADOW	70357	NON RESIDENT	EMG	N	6	77,644.32	LAFORCHE PARISH	
LAFORCHE PARISH*	225202	0043748	NO	NO	GOLDEN MEADOW	70357	SINGLE FMLY	A13	N	6	65,872.81	LAFORCHE PARISH	
LAFORCHE PARISH*	225202	0061493	NO	NO	GOLDEN MEADOW	703570000	SINGLE FMLY	A13	N	3	31,757.87	LAFORCHE PARISH	
LAFORCHE PARISH*	225202	0121748	NO	NO	GOLDEN MEADOW	703570000	SINGLE FMLY	A13	N	5	126,966.66	LAFORCHE PARISH	
LAFORCHE PARISH*	225202	0012602	NO	NO	GOLDEN MEADOW	703570000	NON RESIDENT	A	N	10	499,066.22	LAFORCHE PARISH	

Community Name	CID	RI #	MT?	INS?	City	Zip Code	Occupancy	Zone	Firm	L	Total Paid	County Name	SRL Indicator
LAFORCHE PARISH*	225202	0004104	NO	NO	GOLDEN MEADOW	70357	SINGLE FMLY	AE	N	2	17,745.68	LAFORCHE PARISH	
LAFORCHE PARISH*		0001513	NO	NO	GOLDEN MEADOW	70357	SINGLE FMLY	AE	N	2	17,745.68	LAFORCHE PARISH	
LAFORCHE PARISH*	225202	0161038	NO	NO	GOLDEN MEADOW	70357	SINGLE FMLY	AE	N	2	30,559.00	LAFORCHE PARISH	
LAFORCHE PARISH*	225202	0119900	NO	NO	GOLDEN MEADOW	70357	SINGLE FMLY	AE	N	3	30,800.00	LAFORCHE PARISH	
LAFORCHE PARISH*	225202	0137664	NO	NO	GOLDEN MEADOW	70357	SINGLE FMLY	AE	N	3	19,640.34	LAFORCHE PARISH	
LAFORCHE PARISH*	225202	01217149	NO	NO	GOLDEN MEADOW	70357	SINGLE FMLY	A17	N	3	28,860.31	LAFORCHE PARISH	
LAFORCHE PARISH*	225202	0158742	NO	NO	GOLDEN MEADOW	70357	SINGLE FMLY	A17	N	5	101,320.21	LAFORCHE PARISH	
LAFORCHE PARISH*	225202	01335685	NO	NO	GOLDEN MEADOW	70357	SINGLE FMLY	A17	N	2	17,800.00	LAFORCHE PARISH	
LAFORCHE PARISH*	225202	0119145	NO	NO	GOLDEN MEADOW	70357	SINGLE FMLY	A17	N	5	43,526.05	LAFORCHE PARISH	
LAFORCHE PARISH*	225202	0164495	NO	YES	GOLDEN MEADOW	70357	SINGLE FMLY	A13	N	3	14,287.94	LAFORCHE PARISH	
LAFORCHE PARISH*	225202	0124003	NO	YES	GOLDEN MEADOW	70357	NON RESIDENT	A17	N	2	16,218.07	LAFORCHE PARISH	
LAFORCHE PARISH*	225202	0119119	NO	NO	GOLDEN MEADOW	70357	SINGLE FMLY	A10	N	3	52,685.87	LAFORCHE PARISH	
LAFORCHE PARISH*	225202	0123546	NO	YES	GOLDEN MEADOW	70357	NON RESIDENT	A17	N	5	109,728.45	LAFORCHE PARISH	
LAFORCHE PARISH*	225202	0121747	NO	NO	GOLDEN MEADOW	70357	2-4 FAMILY	A13	N	5	95,089.17	LAFORCHE PARISH	
LAFORCHE PARISH*	225202	0119031	NO	YES	GOLDEN MEADOW	70357	SINGLE FMLY	A10	N	4	85,505.64	LAFORCHE PARISH	
LAFORCHE PARISH*	225202	0133867	NO	NO	GOLDEN MEADOW	70357	SINGLE FMLY	A10	N	3	25,853.83	LAFORCHE PARISH	
LAFORCHE PARISH*	225202	0157713	NO	YES	GOLDEN MEADOW	70357	SINGLE FMLY	A99	N	2	19,778.51	LAFORCHE PARISH	
LAFORCHE PARISH*	225202	0148889	NO	YES	GOLDEN MEADOW	70357	SINGLE FMLY	AE	N	2	79,831.81	LAFORCHE PARISH	
LAFORCHE PARISH*	225202	0012518	NO	NO	GOLDEN MEADOW	70357	SINGLE FMLY	A13	N	2	20,104.13	LAFORCHE PARISH	
LAFORCHE PARISH*	225202	0003933	NO	YES	GOLDEN MEADOW	70357	SINGLE FMLY	A	N	3	41,529.72	LAFORCHE PARISH	
LAFORCHE PARISH*	225202	0021498	NO	YES	GOLDEN MEADOW	70357	SINGLE FMLY	A13	Y	5	42,159.21	LAFORCHE PARISH	
LAFORCHE PARISH*	225202	0162271	NO	YES	GOLDEN MEADOW	70357	NON RESIDENT	A13	Y	2	72,063.35	LAFORCHE PARISH	
LAFORCHE PARISH*	225202	0155250	NO	NO	GOLDEN MEADOW	70357	ASSMD CONDO	A10	N	2	115,372.34	LAFORCHE PARISH	
LAFORCHE PARISH*	225202	0162895	NO	YES	GOLDEN MEADOW	70357	SINGLE FMLY	A13	N	2	28,515.94	LAFORCHE PARISH	
LAFORCHE PARISH*	225202	0158821	NO	NO	GOLDEN MEADOW	70357	SINGLE FMLY	A13	N	2	22,739.65	LAFORCHE PARISH	
LAFORCHE PARISH*	225202	0168574	NO	NO	GOLDEN MEADOW	70357	NON RESIDENT	A16	N	2	43,536.18	LAFORCHE PARISH	
LAFORCHE PARISH*	225202	0061005	NO	NO	GOLDEN MEADOW	70357	SINGLE FMLY	V16	N	3	29,667.76	LAFORCHE PARISH	
LAFORCHE PARISH*	225202	0148286	NO	NO	GOLDEN MEADOW	70357	SINGLE FMLY	A13	N	2	39,473.23	LAFORCHE PARISH	
LAFORCHE PARISH*	225202	0122315	NO	NO	GOLDEN MEADOW	70357	SINGLE FMLY	A13	N	2	64,226.06	LAFORCHE PARISH	
LAFORCHE PARISH*	225202	0061007	NO	NO	GOLDEN MEADOW	70357	SINGLE FMLY	A10	N	2	14,727.14	LAFORCHE PARISH	
LAFORCHE PARISH*	225202	0002848	NO	YES	GOLDEN MEADOW	70357	SINGLE FMLY	A99	N	4	28,572.81	LAFORCHE PARISH	
LAFORCHE PARISH*	225202	0003196	NO	NO	GOLDEN MEADOW	70357	SINGLE FMLY	AE	N	2	20,249.68	LAFORCHE PARISH	
LAFORCHE PARISH*	225202	0061490	NO	YES	GOLDEN MEADOW	70357	SINGLE FMLY	A13	N	3	25,218.07	LAFORCHE PARISH	
LAFORCHE PARISH*	225202	0119692	NO	NO	GOLDEN MEADOW	70357	NON RESIDENT	AE	N	5	102,130.31	LAFORCHE PARISH	
LAFORCHE PARISH*	225202	0061453	NO	NO	GOLDEN MEADOW	70357	SINGLE FMLY	A	N	2	20,049.75	LAFORCHE PARISH	
LAFORCHE PARISH*	225202	0157980	NO	NO	GOLDEN MEADOW	70357	SINGLE FMLY	AE	N	2	20,919.25	LAFORCHE PARISH	
LAFORCHE PARISH*	225202	0061495	NO	NO	GOLDEN MEADOW	70357	SINGLE FMLY	A	N	3	18,910.37	LAFORCHE PARISH	
LAFORCHE PARISH*	225202	0061494	NO	NO	GOLDEN MEADOW	70357	SINGLE FMLY	A13	N	4	31,770.58	LAFORCHE PARISH	
LAFORCHE PARISH*	225202	0119134	NO	YES	GOLDEN MEADOW	70357	SINGLE FMLY	A	N	4	38,331.51	LAFORCHE PARISH	
LAFORCHE PARISH*	225202	0001363	NO	NO	GOLDEN MEADOW	70357	SINGLE FMLY	AE	N	3	52,070.17	LAFORCHE PARISH	
LAFORCHE PARISH*	225202	0023803	NO	NO	GOLDEN MEADOW	70357	SINGLE FMLY	A10	N	3	24,348.55	LAFORCHE PARISH	
LAFORCHE PARISH*	225202	0054580	NO	NO	GOLDEN MEADOW	70357	SINGLE FMLY	A	N	2	16,698.10	LAFORCHE PARISH	
LAFORCHE PARISH*	225202	0101740	NO	NO	GOLDEN MEADOW	70357	SINGLE FMLY	AE	N	4	71,973.33	LAFORCHE PARISH	
LAFORCHE PARISH*	225202	0091553	NO	YES	GOLDEN MEADOW	70357	SINGLE FMLY	A10	N	5	90,161.94	LAFORCHE PARISH	
LAFORCHE PARISH*	225202	0162380	NO	YES	GOLDEN MEADOW	70357	SINGLE FMLY	A01	N	2	30,362.35	LAFORCHE PARISH	
LAFORCHE PARISH*	225202	0083486	NO	NO	GOLDEN MEADOW	70357	SINGLE FMLY	A10	N	2	19,235.76	LAFORCHE PARISH	
LAFORCHE PARISH*	225202	0061012	NO	NO	GOLDEN MEADOW	70357	SINGLE FMLY	AE	N	2	4,962.47	LAFORCHE PARISH	
LAFORCHE PARISH*	225202	0142272	NO	NO	GOLDEN MEADOW	70357	SINGLE FMLY	A13	N	2	31,033.65	LAFORCHE PARISH	
LAFORCHE PARISH*	225202	0053883	YES	NO	GOLDEN MEADOW	70357	SINGLE FMLY	A	N	3	29,999.74	LAFORCHE PARISH	
LAFORCHE PARISH*	225202	0012247	YES	NO	GOLDEN MEADOW	70357	SINGLE FMLY	A	N	2	7,981.23	LAFORCHE PARISH	
LAFORCHE PARISH*	225202	0002784	YES	NO	GOLDEN MEADOW	70357	SINGLE FMLY	AE	N	2	9,281.88	LAFORCHE PARISH	
LAFORCHE PARISH*	225202	0015908	NO	NO	GOLDEN MEADOW	70357	NON RESIDENT	A10	N	3	22,349.76	LAFORCHE PARISH	
LAFORCHE PARISH*	225202	0162897	NO	NO	GRAND ISLE	70358	SINGLE FMLY	A17	N	2	23,391.56	LAFORCHE PARISH	
LAFORCHE PARISH*	225202	0162423	NO	NO	GRAND ISLE	70358	2-4 FAMILY	AE	N	2	59,302.20	LAFORCHE PARISH	
LAFORCHE PARISH*	225202	0130250	NO	YES	GRAND ISLE	70358	NON RESIDENT	A99	N	5	249,332.17	LAFORCHE PARISH	
LAFORCHE PARISH*	225202	0120601	NO	NO	GRAND ISLE	70358	NON RESIDENT	VE	N	3	24,358.52	LAFORCHE PARISH	
LAFORCHE PARISH*	225202	0119031	NO	YES	HOUMA	70364	SINGLE FMLY	A	N	2	13,687.89	LAFORCHE PARISH	

Community Name	CID	R_L #	MTR	INS7	City	Zip Code	Occupancy	Zone	Firm	L	Total Paid	County Name	SRL Indicator
LAFORCHE PARISH*	225202	0095089	NO	NO	HOUMA	703640000	SINGLE FAMILY	C	N	4	71,604.04	LAFORCHE PARISH	VU
LAFORCHE PARISH*	225202	0071370	NO	NO	HOUMA	703641565	SINGLE FAMILY	A	N	6	73,863.62	LAFORCHE PARISH	VU
LAFORCHE PARISH*	225202	0101746	NO	YES	HOUMA	703640000	SINGLE FAMILY	A	N	5	15,236.25	LAFORCHE PARISH	VU
LAFORCHE PARISH*	225202	0060578	YES	SDF	HOUMA	703640000	SINGLE FAMILY	A	N	5	38,907.74	LAFORCHE PARISH	VU
LAFORCHE PARISH*	225202	0161093	NO	NO	LAFORCHE	703650000	SINGLE FAMILY	A	N	2	34,100.00	LAFORCHE PARISH	VU
LAFORCHE PARISH*	225202	0016168	NO	NO	LAFORCHE	703634977	SINGLE FAMILY	A13	N	4	37,569.97	LAFORCHE PARISH	VU
LAFORCHE PARISH*	225202	0115950	NO	NO	LAFORCHE	703634977	SINGLE FAMILY	A07	N	3	202,540.26	LAFORCHE PARISH	VU
LAFORCHE PARISH*	225202	0161117	NO	YES	LAFORCHE	703730000	SINGLE FAMILY	A07	N	4	6,419.75	LAFORCHE PARISH	VU
LAFORCHE PARISH*	225202	0146472	NO	YES	LAFORCHE	703730000	SINGLE FAMILY	A13	N	2	125,633.88	LAFORCHE PARISH	VU
LAFORCHE PARISH*	225202	0135330	NO	NO	LAFORCHE	703730000	SINGLE FAMILY	A09	N	2	26,434.22	LAFORCHE PARISH	VU
LAFORCHE PARISH*	225202	0021056	NO	NO	LAFORCHE	703730000	SINGLE FAMILY	A09	N	3	64,144.22	LAFORCHE PARISH	VU
LAFORCHE PARISH*	225202	0105172	NO	SDF	LAFORCHE	703730000	SINGLE FAMILY	A10	N	7	142,769.88	LAFORCHE PARISH	VU
LAFORCHE PARISH*	225202	0144150	NO	NO	LAOSSE	703730000	SINGLE FAMILY	A09	N	7	26,000.00	LAFORCHE PARISH	VU
LAFORCHE PARISH*	225202	0054965	YES	NO	LAOSSE	703730000	SINGLE FAMILY	A17	N	2	14,724.65	LAFORCHE PARISH	VU
LAFORCHE PARISH*	225202	0148343	NO	NO	LAOSSE	714460000	SINGLE FAMILY	A13	N	2	15,945.28	LAFORCHE PARISH	VU
LAFORCHE PARISH*	225202	0038887	NO	NO	LAOSSE	703575326	NON RESIDENT	A13	N	2	180,574.22	LAFORCHE PARISH	VU
LAFORCHE PARISH*	225202	0011923	NO	NO	LAOSSE	703575326	NON RESIDENT	AE	N	5	37,438.17	LAFORCHE PARISH	VU
LAFORCHE PARISH*	225202	0124447	NO	NO	LAOSSE	703575326	NON RESIDENT	AE	N	2	9,552.74	LAFORCHE PARISH	VU
LAFORCHE PARISH*	225202	0135564	NO	NO	LAOSSE	703575326	NON RESIDENT	AE	N	2	54,702.42	LAFORCHE PARISH	VU
LAFORCHE PARISH*	225202	0120591	NO	NO	LAOSSE	703575326	NON RESIDENT	AE	N	3	54,918.06	LAFORCHE PARISH	VU
LAFORCHE PARISH*	225202	0120410	NO	NO	LAOSSE	703575326	NON RESIDENT	AE	N	3	247,815.54	LAFORCHE PARISH	VU
LAFORCHE PARISH*	225202	0158440	NO	YES	LAOSSE	703575326	OTHER RESID	A	N	3	340,989.96	LAFORCHE PARISH	VU
LAFORCHE PARISH*	225202	0123405	NO	YES	LAOSSE	703575326	OTHER RESID	A	N	4	23,698.60	LAFORCHE PARISH	VU
LAFORCHE PARISH*	225202	0123776	NO	YES	LAOSSE	714460000	SINGLE FAMILY	A13	N	3	50,631.72	LAFORCHE PARISH	VU
LAFORCHE PARISH*	225202	0052284	NO	NO	LAOSSE	714460000	SINGLE FAMILY	EMG	N	2	10,597.53	LAFORCHE PARISH	VU
LAFORCHE PARISH*	225202	0150045	NO	YES	LAOSSE	703575326	SINGLE FAMILY	V6	N	2	31,792.54	LAFORCHE PARISH	VU
LAFORCHE PARISH*	225202	0101738	NO	NO	LAOSSE	703575326	SINGLE FAMILY	AE	N	2	23,897.45	LAFORCHE PARISH	VU
LAFORCHE PARISH*	225202	0061488	NO	NO	LAOSSE	703575326	SINGLE FAMILY	A13	N	4	10,446.47	LAFORCHE PARISH	VU
LAFORCHE PARISH*	225202	0124484	NO	NO	LAOSSE	703575326	SINGLE FAMILY	A13	N	2	57,786.39	LAFORCHE PARISH	VU
LAFORCHE PARISH*	225202	0124485	NO	NO	LAOSSE	703575326	SINGLE FAMILY	A13	N	2	9,349.82	LAFORCHE PARISH	VU
LAFORCHE PARISH*	225202	0158449	NO	NO	LAOSSE	703575326	SINGLE FAMILY	AE	N	2	19,351.53	LAFORCHE PARISH	VU
LAFORCHE PARISH*	225202	0021073	NO	SDF	LAOSSE	703575326	SINGLE FAMILY	AE	N	2	22,900.11	LAFORCHE PARISH	VU
LAFORCHE PARISH*	225202	0084475	NO	NO	LAOSSE	703575326	NON RESIDENT	AE	N	9	27,541.06	LAFORCHE PARISH	VU
LAFORCHE PARISH*	225202	0061489	NO	NO	LAOSSE	714460000	SINGLE FAMILY	AE	N	3	404,375.81	LAFORCHE PARISH	VU
LAFORCHE PARISH*	225202	0142111	NO	YES	LAOSSE	714460000	SINGLE FAMILY	VE	N	3	19,667.92	LAFORCHE PARISH	VU
LAFORCHE PARISH*	225202	0124035	NO	YES	LAOSSE	703575326	SINGLE FAMILY	A13	N	3	23,685.37	LAFORCHE PARISH	VU
LAFORCHE PARISH*	225202	0093984	NO	NO	LAOSSE	703575326	SINGLE FAMILY	AE	N	5	11,251.46	LAFORCHE PARISH	VU
LAFORCHE PARISH*	225202	0121422	NO	YES	LAOSSE	703575326	SINGLE FAMILY	A13	N	2	81,465.29	LAFORCHE PARISH	VU
LAFORCHE PARISH*	225202	0093984	NO	NO	LAOSSE	703575326	SINGLE FAMILY	A13	N	3	19,207.96	LAFORCHE PARISH	VU
LAFORCHE PARISH*	225202	0144214	NO	SDF	LAOSSE	703575326	SINGLE FAMILY	A17	N	2	37,017.79	LAFORCHE PARISH	VU
LAFORCHE PARISH*	225202	0061491	NO	NO	LAOSSE	70374	ASSMD CONDO	AE	N	2	42,911.94	LAFORCHE PARISH	VU
LAFORCHE PARISH*	225202	0004819	NO	NO	LAOSSE	703746109	SINGLE FAMILY	B	N	6	150,025.39	LAFORCHE PARISH	VU
LAFORCHE PARISH*	225202	0127870	NO	SDF	LAOSSE	703743002	SINGLE FAMILY	A	N	2	17,665.84	LAFORCHE PARISH	VU
LAFORCHE PARISH*	225202	0023908	NO	NO	LAOSSE	703743002	SINGLE FAMILY	A07	N	2	4,508.39	LAFORCHE PARISH	VU
LAFORCHE PARISH*	225202	0044197	NO	NO	LAOSSE	703743420	SINGLE FAMILY	A	N	2	17,665.81	LAFORCHE PARISH	VU
LAFORCHE PARISH*	225202	0007168	NO	YES	LAOSSE	703743419	SINGLE FAMILY	AE	N	2	7,663.39	LAFORCHE PARISH	VU
LAFORCHE PARISH*	225202	0151865	NO	YES	LAOSSE	703740000	SINGLE FAMILY	AE	N	2	18,050.47	LAFORCHE PARISH	VU
LAFORCHE PARISH*	225202	0001710	NO	NO	LAOSSE	70374	SINGLE FAMILY	AE	N	3	6,235.20	LAFORCHE PARISH	VU
LAFORCHE PARISH*	225202	0039296	NO	NO	LAOSSE	703742116	SINGLE FAMILY	EMG	N	2	4,909.61	LAFORCHE PARISH	VU
LAFORCHE PARISH*	225202	0119216	NO	YES	LAOSSE	703743365	SINGLE FAMILY	AE	N	2	18,823.35	LAFORCHE PARISH	VU
LAFORCHE PARISH*	225202	0003081	NO	NO	LAOSSE	703743368	SINGLE FAMILY	X	N	3	51,016.19	LAFORCHE PARISH	VU
LAFORCHE PARISH*	225202	0097323	NO	NO	LAOSSE	703743379	SINGLE FAMILY	C	N	4	15,799.58	LAFORCHE PARISH	VU
LAFORCHE PARISH*	225202	0111829	NO	NO	LAOSSE	703740000	SINGLE FAMILY	AE	N	4	62,059.74	LAFORCHE PARISH	VU
LAFORCHE PARISH*	225202	0012437	NO	NO	LAOSSE	703740000	SINGLE FAMILY	A09	N	2	20,829.24	LAFORCHE PARISH	VU
LAFORCHE PARISH*	225202	0011917	NO	YES	LAOSSE	703742809	SINGLE FAMILY	A13	N	3	21,308.38	LAFORCHE PARISH	VU
LAFORCHE PARISH*	225202	0117469	NO	YES	LAOSSE	703742812	SINGLE FAMILY	AE	N	3	51,164.01	LAFORCHE PARISH	VU
LAFORCHE PARISH*	225202	0021866	NO	YES	LAOSSE	70374	SINGLE FAMILY	AE	N	2	17,833.31	LAFORCHE PARISH	VU
LAFORCHE PARISH*	225202	0114944	NO	YES	LAOSSE	70374	SINGLE FAMILY	AE	N	2	23,356.49	LAFORCHE PARISH	VU
LAFORCHE PARISH*	225202	0120567	NO	NO	LAOSSE	70374	SINGLE FAMILY	AE	N	2	16,576.47	LAFORCHE PARISH	VU
LAFORCHE PARISH*	225202	0117447	NO	NO	LAOSSE	0	SINGLE FAMILY	X	N	2	4,873.33	LAFORCHE PARISH	VU
LAFORCHE PARISH*	225202	0048045	YES	NO	MEADOW	10000	SINGLE FAMILY	A	N	2	22,665.36	LAFORCHE PARISH	VU
LAFORCHE PARISH*	225202	0048766	YES	NO	MEADOW	703770000	SINGLE FAMILY	EMG	N	2	16,585.05	LAFORCHE PARISH	VU
LAFORCHE PARISH*	225202	0149393	NO	YES	MONTEGUT	703770000	SINGLE FAMILY	C	N	2	56,821.24	LAFORCHE PARISH	VU
LAFORCHE PARISH*	225202	0153197	NO	NO	MONTEGUT	703772346	SINGLE FAMILY	AE	N	2	121,451.72	LAFORCHE PARISH	VU

Community Name	CID	RL #	MTR	INS?	City	Zip Code	Occupancy	Zone	Firm	L	Total Paid	County Name	SRL Indicator
LAFOURCHE PARISH*	225202	0123886	NO	YES	MONTÉGUT	70377235	SINGLE FMLY	A13	N	3	92,317.94	LAFOURCHE PARISH	
LAFOURCHE PARISH*	225202	0149220	NO	YES	MONTÉGUT	703772301	SINGLE FMLY	A13	N	2	45,345.19	LAFOURCHE PARISH	
LAFOURCHE PARISH*	225202	0152202	NO	YES	MONTÉGUT	703772303	SINGLE FMLY	A13	N	2	83,251.63	LAFOURCHE PARISH	
LAFOURCHE PARISH*	225202	0163397	NO	YES	MONTÉGUT	703772303	SINGLE FMLY	A13	N	2	143,735.59	LAFOURCHE PARISH	
LAFOURCHE PARISH*	225202	0152225	NO	YES	MONTÉGUT	703772303	SINGLE FMLY	A13	N	2	79,642.83	LAFOURCHE PARISH	
LAFOURCHE PARISH*	225202	0163398	NO	YES	MONTÉGUT	703772305	SINGLE FMLY	A13	N	2	65,394.16	LAFOURCHE PARISH	
LAFOURCHE PARISH*	225202	0123548	NO	YES	MONTÉGUT	703772305	SINGLE FMLY	A13	N	3	30,201.38	LAFOURCHE PARISH	
LAFOURCHE PARISH*	225202	0156711	NO	YES	MONTÉGUT	703772305	SINGLE FMLY	A13	N	2	69,112.63	LAFOURCHE PARISH	
LAFOURCHE PARISH*	225202	0146451	NO	YES	MONTÉGUT	703772307	SINGLE FMLY	A13	N	2	220,816.94	LAFOURCHE PARISH	
LAFOURCHE PARISH*	225202	0001333	NO	SDF	MONTÉGUT	703772231	SINGLE FMLY	AE	N	4	172,596.98	LAFOURCHE PARISH	VU
LAFOURCHE PARISH*	225202	0121595	NO	YES	MONTÉGUT	703772342	SINGLE FMLY	A13	N	3	107,054.27	LAFOURCHE PARISH	V
LAFOURCHE PARISH*	225202	0121595	NO	YES	MONTÉGUT	703772342	SINGLE FMLY	A13	N	3	53,675.79	LAFOURCHE PARISH	
LAFOURCHE PARISH*	225202	0156715	NO	YES	MONTÉGUT	703772344	SINGLE FMLY	A13	N	2	97,026.43	LAFOURCHE PARISH	
LAFOURCHE PARISH*	225202	0148248	NO	YES	MONTÉGUT	703772101	SINGLE FMLY	A13	N	2	114,301.09	LAFOURCHE PARISH	
LAFOURCHE PARISH*	225202	0148189	NO	YES	MONTÉGUT	703772101	SINGLE FMLY	A13	N	2	39,916.72	LAFOURCHE PARISH	
LAFOURCHE PARISH*	225202	0157886	NO	YES	MONTÉGUT	703772101	SINGLE FMLY	AE	N	2	91,024.46	LAFOURCHE PARISH	
LAFOURCHE PARISH*	225202	0073669	NO	YES	MONTÉGUT	703772100	SINGLE FMLY	A13	N	4	44,571.46	LAFOURCHE PARISH	
LAFOURCHE PARISH*	225202	0151312	NO	YES	MONTÉGUT	703772101	SINGLE FMLY	A13	N	2	127,994.87	LAFOURCHE PARISH	
LAFOURCHE PARISH*	225202	0122267	NO	YES	MONTÉGUT	703770000	SINGLE FMLY	A15	N	3	102,065.50	LAFOURCHE PARISH	
LAFOURCHE PARISH*	225202	0099041	NO	NO	MONTÉGUT	70377	SINGLE FMLY	AE	N	2	28,303.20	LAFOURCHE PARISH	
LAFOURCHE PARISH*	225202	0157886	NO	YES	MONTÉGUT	703772101	SINGLE FMLY	AE	N	2	44,571.46	LAFOURCHE PARISH	
LAFOURCHE PARISH*	225202	0119155	NO	YES	MONTÉGUT	703772104	SINGLE FMLY	A15	N	3	154,378.68	LAFOURCHE PARISH	
LAFOURCHE PARISH*	225202	0156716	NO	YES	MONTÉGUT	703772101	SINGLE FMLY	A13	N	2	74,456.65	LAFOURCHE PARISH	
LAFOURCHE PARISH*	225202	0124850	NO	NO	MONTÉGUT	703772119	SINGLE FMLY	AE	N	2	28,553.15	LAFOURCHE PARISH	
LAFOURCHE PARISH*	225202	0124377	NO	NO	MONTÉGUT	703772121	SINGLE FMLY	A	N	2	33,481.78	LAFOURCHE PARISH	
LAFOURCHE PARISH*	225202	0154575	NO	YES	MONTÉGUT	703772121	SINGLE FMLY	A	N	2	18,667.25	LAFOURCHE PARISH	
LAFOURCHE PARISH*	225202	0154575	NO	NO	MONTÉGUT	703772125	SINGLE FMLY	A13	N	3	45,795.34	LAFOURCHE PARISH	
LAFOURCHE PARISH*	225202	0154575	NO	NO	MONTÉGUT	703772125	SINGLE FMLY	A13	N	2	30,000.00	LAFOURCHE PARISH	
LAFOURCHE PARISH*	225202	0158735	NO	NO	MONTÉGUT	703772127	SINGLE FMLY	A13	N	2	29,996.33	LAFOURCHE PARISH	
LAFOURCHE PARISH*	225202	0123545	NO	YES	MONTÉGUT	703772127	SINGLE FMLY	AE	N	2	38,004.77	LAFOURCHE PARISH	
LAFOURCHE PARISH*	225202	0157813	NO	YES	MONTÉGUT	703770000	SINGLE FMLY	A	N	2	26,628.51	LAFOURCHE PARISH	
LAFOURCHE PARISH*	225202	0148291	NO	YES	MONTÉGUT	703770000	SINGLE FMLY	A	N	2	7,000.00	LAFOURCHE PARISH	
LAFOURCHE PARISH*	225202	0003225	NO	NO	MONTÉGUT	70377	SINGLE FMLY	AE	N	2	27,164.73	LAFOURCHE PARISH	PU
LAFOURCHE PARISH*	225202	0162893	NO	YES	POINT FOURCHON	703570000	SINGLE FMLY	V16	Y	2	10,595.03	LAFOURCHE PARISH	
LAFOURCHE PARISH*	225202	0001345	NO	NO	POINTE AUX CHIMÈRES	70377	SINGLE FMLY	AE	N	3	51,391.27	LAFOURCHE PARISH	
LAFOURCHE PARISH*	225202	0112582	NO	YES	RACELAND	703942819	SINGLE FMLY	A06	N	2	43,286.23	LAFOURCHE PARISH	
LAFOURCHE PARISH*	225202	0112219	NO	YES	RACELAND	703942816	SINGLE FMLY	A06	N	2	58,536.72	LAFOURCHE PARISH	
LAFOURCHE PARISH*	225202	0054039	NO	NO	RACELAND	703943014	SINGLE FMLY	A	N	2	9,574.12	LAFOURCHE PARISH	
LAFOURCHE PARISH*	225202	0164990	NO	NO	RACELAND	70394	SINGLE FMLY	AE	N	2	4,550.94	LAFOURCHE PARISH	
LAFOURCHE PARISH*	225202	0112674	NO	NO	RACELAND	703943058	SINGLE FMLY	A06	N	2	8,015.25	LAFOURCHE PARISH	
LAFOURCHE PARISH*	225202	0173777	NO	YES	RACELAND	703943294	SINGLE FMLY	X	N	2	9,443.92	LAFOURCHE PARISH	
LAFOURCHE PARISH*	225202	0121845	NO	YES	RACELAND	703942840	SINGLE FMLY	A	N	2	32,392.00	LAFOURCHE PARISH	
LAFOURCHE PARISH*	225202	0112756	NO	YES	RACELAND	703943115	SINGLE FMLY	A06	N	2	31,654.22	LAFOURCHE PARISH	
LAFOURCHE PARISH*	225202	0101100	NO	NO	RACELAND	703943220	SINGLE FMLY	A06	N	3	28,226.18	LAFOURCHE PARISH	
LAFOURCHE PARISH*	225202	0112573	NO	YES	RACELAND	703943212	SINGLE FMLY	A06	N	2	22,114.57	LAFOURCHE PARISH	
LAFOURCHE PARISH*	225202	0112218	NO	YES	RACELAND	703943212	SINGLE FMLY	A06	N	2	32,664.08	LAFOURCHE PARISH	
LAFOURCHE PARISH*	225202	0116347	NO	YES	RACELAND	703942833	SINGLE FMLY	A06	N	2	11,450.85	LAFOURCHE PARISH	
LAFOURCHE PARISH*	225202	0116349	NO	YES	RACELAND	703942833	SINGLE FMLY	A06	N	2	18,044.35	LAFOURCHE PARISH	
LAFOURCHE PARISH*	225202	0101748	NO	YES	RACELAND	703942831	SINGLE FMLY	AE	N	3	46,034.96	LAFOURCHE PARISH	
GOLDEN MEADOW, TOWN OF	225196	0073943	NO	NO	SLIDELL	704600000	SINGLE FMLY	A10	N	2	7,142.52	LAFOURCHE PARISH	
LAFOURCHE PARISH*	225202	0036710	NO	YES	THIBODAUX	704613636	SINGLE FMLY	A02	N	2	28,890.41	LAFOURCHE PARISH	
LAFOURCHE PARISH*	225202	0012896	NO	YES	THIBODAUX	703016312	SINGLE FMLY	C	Y	5	59,900.70	LAFOURCHE PARISH	
LAFOURCHE PARISH*	225202	0112224	NO	YES	THIBODAUX	703017345	SINGLE FMLY	X	N	2	25,631.20	LAFOURCHE PARISH	
LAFOURCHE PARISH*	225202	0112224	NO	YES	THIBODAUX	703015701	SINGLE FMLY	X	N	2	44,165.11	LAFOURCHE PARISH	

Community Name	CID	RL #	MIT?	INS?	City	Zip Code	Occupancy	Zone	Firm	L	Total Paid	County Name	SRL Indicator
LAFORCHE PARISH*	225202	0114431	NO	YES	THIBODAUX	70301	SINGLE FMLY	X	N	2	44,517.62	LAFORCHE PARISH	
LAFORCHE PARISH*	225202	0006607	NO	YES	THIBODAUX	703015703	SINGLE FMLY	X	N	2	23,265.15	LAFORCHE PARISH	
LAFORCHE PARISH*	225202	0105709	NO	YES	THIBODAUX	703015703	SINGLE FMLY	A	N	3	76,248.77	LAFORCHE PARISH	
LAFORCHE PARISH*	225202	0116733	NO	YES	THIBODAUX	703016166	SINGLE FMLY	A	N	2	32,214.12	LAFORCHE PARISH	
LAFORCHE PARISH*	225202	0000987	NO	NO	THIBODAUX	703010000	SINGLE FMLY	A	N	6	44,102.43	LAFORCHE PARISH	
LAFORCHE PARISH*	225202	0114828	NO	YES	THIBODAUX	703016809	SINGLE FMLY	C	N	2	73,347.43	LAFORCHE PARISH	
LAFORCHE PARISH*	225202	0112583	NO	YES	THIBODAUX	703016809	SINGLE FMLY	C	Y	2	55,444.11	LAFORCHE PARISH	
LAFORCHE PARISH*	225202	0114765	NO	YES	THIBODAUX	70301	SINGLE FMLY	X	Y	2	81,501.40	LAFORCHE PARISH	
LAFORCHE PARISH*	225202	0112501	NO	NO	THIBODAUX	703016809	SINGLE FMLY	X	Y	2	37,233.38	LAFORCHE PARISH	
LAFORCHE PARISH*	225202	0007154	NO	NO	THIBODAUX	70301	SINGLE FMLY	X	N	3	10,565.46	LAFORCHE PARISH	
LAFORCHE PARISH*	225202	0009906	NO	YES	THIBODAUX	703016003	SINGLE FMLY	A	N	4	25,713.84	LAFORCHE PARISH	
LAFORCHE PARISH*	225202	0115760	NO	YES	THIBODAUX	70301	SINGLE FMLY	X	N	2	52,834.73	LAFORCHE PARISH	
LAFORCHE PARISH*	225202	0112777	NO	YES	THIBODAUX	703013816	SINGLE FMLY	X	N	2	44,163.74	LAFORCHE PARISH	
LAFORCHE PARISH*	225202	0076193	NO	YES	THIBODAUX	703016027	SINGLE FMLY	A	N	3	16,037.43	LAFORCHE PARISH	
LAFORCHE PARISH*	225202	0112207	NO	NO	THIBODAUX	703015906	SINGLE FMLY	C	N	2	39,652.27	LAFORCHE PARISH	
LAFORCHE PARISH*	225202	0112232	NO	YES	THIBODAUX	703017427	SINGLE FMLY	C	N	2	4,879.67	LAFORCHE PARISH	
LAFORCHE PARISH*	225202	0061304	NO	SDF	THIBODAUX	703014003	SINGLE FMLY	A	N	4	39,303.77	LAFORCHE PARISH	
LAFORCHE PARISH*	225202	0113471	NO	YES	THIBODAUX	703013825	SINGLE FMLY	C	N	2	52,987.72	LAFORCHE PARISH	
LAFORCHE PARISH*	225202	0104652	NO	NO	THIBODAUX	70301	SINGLE FMLY	X	Y	2	32,415.10	LAFORCHE PARISH	
LAFORCHE PARISH*	225202	0112706	NO	YES	THIBODAUX	703016133	SINGLE FMLY	A	N	2	21,535.11	LAFORCHE PARISH	
LAFORCHE PARISH*	225202	0112199	NO	YES	THIBODAUX	703016500	SINGLE FMLY	A	Y	2	15,793.74	LAFORCHE PARISH	
LAFORCHE PARISH*	225202	0119108	NO	YES	THIBODAUX	703016204	SINGLE FMLY	AH	N	2	8,987.10	LAFORCHE PARISH	
LAFORCHE PARISH*	225202	0114315	NO	YES	THIBODAUX	703015911	SINGLE FMLY	AH	N	2	14,478.37	LAFORCHE PARISH	
LAFORCHE PARISH*	225202	0088609	NO	YES	THIBODAUX	703015907	SINGLE FMLY	C	N	3	82,871.22	LAFORCHE PARISH	
LAFORCHE PARISH*	225202	0077572	NO	YES	THIBODAUX	703010000	SINGLE FMLY	AE	N	3	58,044.34	LAFORCHE PARISH	
LAFORCHE PARISH*	225202	0113472	NO	NO	THIBODAUX	703016317	SINGLE FMLY	C	N	2	58,373.98	LAFORCHE PARISH	
LAFORCHE PARISH*	225202	0114789	NO	YES	THIBODAUX	703013878	SINGLE FMLY	AE	Y	2	39,015.95	LAFORCHE PARISH	
LAFORCHE PARISH*	225202	0112578	NO	YES	THIBODAUX	703013878	SINGLE FMLY	A01	Y	2	51,823.41	LAFORCHE PARISH	
LAFORCHE PARISH*	225202	0105708	NO	NO	THIBODAUX	70301	SINGLE FMLY	X	N	2	8,650.75	LAFORCHE PARISH	
LAFORCHE PARISH*	225202	0048836	NO	NO	THIBODAUX	703016916	SINGLE FMLY	EMG	N	2	8,679.80	LAFORCHE PARISH	
LAFORCHE PARISH*	225202	0105704	NO	YES	THIBODAUX	703016141	SINGLE FMLY	A	N	4	137,034.80	LAFORCHE PARISH	
LAFORCHE PARISH*	225202	0115220	NO	YES	THIBODAUX	703016141	SINGLE FMLY	AE	Y	2	103,398.72	LAFORCHE PARISH	
LAFORCHE PARISH*	225202	0116042	NO	YES	THIBODAUX	703015716	SINGLE FMLY	A	N	2	18,424.21	LAFORCHE PARISH	
LAFORCHE PARISH*	225202	0078777	NO	YES	THIBODAUX	703016521	SINGLE FMLY	C	N	3	50,554.09	LAFORCHE PARISH	
LAFORCHE PARISH*	225202	0112494	NO	NO	THIBODAUX	703014735	SINGLE FMLY	A	Y	2	7,993.09	LAFORCHE PARISH	
LAFORCHE PARISH*	225202	0112730	NO	YES	THIBODAUX	703017604	SINGLE FMLY	C	Y	2	12,203.56	LAFORCHE PARISH	
LAFORCHE PARISH*	225202	0113973	NO	YES	THIBODAUX	70301	SINGLE FMLY	A	N	2	46,831.74	LAFORCHE PARISH	
LAFORCHE PARISH*	225202	0116346	NO	YES	THIBODAUX	703016153	SINGLE FMLY	A	N	2	68,744.59	LAFORCHE PARISH	
LAFORCHE PARISH*	225202	0112489	NO	YES	THIBODAUX	703016150	SINGLE FMLY	A	N	2	28,314.16	LAFORCHE PARISH	
LAFORCHE PARISH*	225202	0112754	NO	YES	THIBODAUX	703016150	SINGLE FMLY	A	N	2	39,641.33	LAFORCHE PARISH	
LAFORCHE PARISH*	225202	0112231	NO	YES	THIBODAUX	703016150	SINGLE FMLY	C	N	2	110,758.29	LAFORCHE PARISH	
LAFORCHE PARISH*	225202	0061299	NO	YES	THIBODAUX	703016151	SINGLE FMLY	A	N	4	140,910.90	LAFORCHE PARISH	
LAFORCHE PARISH*	225202	0112765	NO	YES	THIBODAUX	703016149	SINGLE FMLY	A	N	2	38,517.06	LAFORCHE PARISH	
LAFORCHE PARISH*	225202	0005847	NO	SDF	THIBODAUX	703016148	SINGLE FMLY	A	N	5	194,330.87	LAFORCHE PARISH	P

Community Name	CID	RL #	MIT?	INS?	City	Zip Code	Occupancy	Zone	Firm	L	Total Paid	County Name
LAFORCHE PARISH*	225202	0115740	NO	YES	THIBODAU	703016149	SINGLE FMLY	A	N	2	60,162.92	LAFORCHE PARISH
LAFORCHE PARISH*	225202	0061303	NO	SDF	THIBODAU	703010000	SINGLE FMLY	C	N	5	99,613.58	LAFORCHE PARISH
LAFORCHE PARISH*	225202	0101098	YES	NO	THIBODAU	703016150	SINGLE FMLY	A	N	4	107,990.88	LAFORCHE PARISH
LAFORCHE PARISH*	225202	0024124	YES	NO	THIBODAU	703016003	SINGLE FMLY	EMG	N	2	5,787.80	LAFORCHE PARISH
LAFORCHE PARISH*	225202	0087533	YES	NO	THIBODAU	703010000	SINGLE FMLY	A	N	2	18,221.88	LAFORCHE PARISH
LAFORCHE PARISH*	225202	0101387	YES	YES	THIBODAU	703016151	SINGLE FMLY	A	Y	3	64,235.34	LAFORCHE PARISH
LAFORCHE PARISH*	225202	0101095	YES	NO	THIBODAU	703016152	SINGLE FMLY	C	N	3	51,924.74	LAFORCHE PARISH
LAFORCHE PARISH*	225202	0061301	YES	YES	THIBODAU	703016152	SINGLE FMLY	C	N	4	135,462.30	LAFORCHE PARISH
LAFORCHE PARISH*	225202	0105705	YES	YES	THIBODAU	703016151	SINGLE FMLY	A01	N	3	77,176.28	LAFORCHE PARISH
LAFORCHE PARISH*	225202	0105706	YES	NO	THIBODAU	703016151	SINGLE FMLY	C	N	2	52,452.18	LAFORCHE PARISH
LAFORCHE PARISH*	225202	0103462	YES	YES	THIBODAU	703016150	SINGLE FMLY	C	N	3	90,255.44	LAFORCHE PARISH
LAFORCHE PARISH*	225202	0103523	YES	YES	THIBODAU	703016151	SINGLE FMLY	C	N	3	26,900.96	LAFORCHE PARISH
LAFORCHE PARISH*	225202	0105707	YES	NO	THIBODAU	703016150	SINGLE FMLY	X	N	3	176,525.58	LAFORCHE PARISH
LAFORCHE PARISH*	225202	0115222	NO	YES	THIBODAU	70301	SINGLE FMLY	X	N	2	67,772.37	LAFORCHE PARISH
THIBODAU; CITY OF	220111	0113466	NO	YES	THIBODAU	703013503	SINGLE FMLY	C	N	2	49,782.40	LAFORCHE PARISH
THIBODAU; CITY OF	220111	0012463	NO	NO	THIBODAU	703013504	SINGLE FMLY	C	N	4	71,326.44	LAFORCHE PARISH
THIBODAU; CITY OF	220111	0076037	NO	NO	THIBODAU	703012150	SINGLE FMLY	X	N	3	27,349.33	LAFORCHE PARISH
THIBODAU; CITY OF	220111	0076059	NO	YES	THIBODAU	70301	SINGLE FMLY	X	Y	3	51,035.58	LAFORCHE PARISH
THIBODAU; CITY OF	220111	0112570	NO	YES	THIBODAU	703013866	SINGLE FMLY	C	N	3	89,309.00	LAFORCHE PARISH
THIBODAU; CITY OF	220111	0112212	NO	YES	THIBODAU	703014712	SINGLE FMLY	A	N	3	15,626.80	LAFORCHE PARISH
THIBODAU; CITY OF	220111	0115219	NO	YES	THIBODAU	703015309	SINGLE FMLY	C	N	2	35,301.70	LAFORCHE PARISH
THIBODAU; CITY OF	220111	0071346	NO	YES	THIBODAU	703012916	SINGLE FMLY	X	N	3	55,544.86	LAFORCHE PARISH
THIBODAU; CITY OF	220111	0041902	NO	NO	THIBODAU	703012916	2-4 FAMILY	EMG	N	2	7,924.45	LAFORCHE PARISH
THIBODAU; CITY OF	220111	0078778	NO	YES	THIBODAU	703012038	SINGLE FMLY	X	N	3	33,676.50	LAFORCHE PARISH
THIBODAU; CITY OF	220111	0021527	NO	NO	THIBODAU	703012221	SINGLE FMLY	C	N	4	14,629.41	LAFORCHE PARISH
THIBODAU; CITY OF	220111	0002679	NO	YES	THIBODAU	703012127	SINGLE FMLY	C	Y	3	18,269.12	LAFORCHE PARISH
THIBODAU; CITY OF	220111	0000354	NO	YES	THIBODAU	703012841	NON RESIDENT	C	Y	5	45,347.86	LAFORCHE PARISH
THIBODAU; CITY OF	220111	0011771	NO	YES	THIBODAU	703012845	SINGLE FMLY	C	N	8	107,406.83	LAFORCHE PARISH
THIBODAU; CITY OF	220111	0113468	NO	YES	THIBODAU	703014237	SINGLE FMLY	X	N	2	31,588.28	LAFORCHE PARISH
THIBODAU; CITY OF	220111	0113469	NO	YES	THIBODAU	703014294	SINGLE FMLY	X	N	2	37,729.82	LAFORCHE PARISH
THIBODAU; CITY OF	220111	0113470	NO	YES	THIBODAU	703014237	SINGLE FMLY	X	N	2	45,082.50	LAFORCHE PARISH
THIBODAU; CITY OF	220111	0042085	NO	NO	THIBODAU	703015303	SINGLE FMLY	C	N	3	21,008.79	LAFORCHE PARISH
THIBODAU; CITY OF	220111	0061302	NO	NO	THIBODAU	703016151	SINGLE FMLY	C	N	4	74,306.65	LAFORCHE PARISH
LAFORCHE PARISH*	225202	0061306	YES	NO	THIBODAU	703010000	SINGLE FMLY	A	N	3	46,438.16	LAFORCHE PARISH
THIBODAU; CITY OF	220111	0000356	NO	NO	THIBODAU	70301	SINGLE FMLY	C	N	5	19,698.89	LAFORCHE PARISH
THIBODAU; CITY OF	225202	0114239	NO	NO	THIBODEAU	70301	SINGLE FMLY	X	Y	2	72,040.51	LAFORCHE PARISH
LAFORCHE PARISH*	225202	0114256	NO	YES	THIBODEAU	70301	SINGLE FMLY	A	N	2	45,113.45	LAFORCHE PARISH

879

16,156,339.85
52117.22532

Type of Asset	Name/Description of Structure	City	Structure Loss				Contents Loss				Structure Use and Function Loss				Structure Loss+Content Loss+Function Loss (\$)	
			Structure Replacement Value (\$)	Inundation (ft)	Percent Damage (%)	Loss to Structure (\$)	Replacement of Contents Value (\$)	Percent Damage (%)	Loss to Contents (\$)	Average Daily Operating Budget (\$)	Functional Downtime	Displacement Cost Per Day	Displacement Time	Structure Use & Function Cost		
Essential Facilities cont.	East Thibodaux Middle	Thibodaux	\$4,992,160 X	-4	0%	\$0	\$7,488,240 X	0.0%	\$0	\$37,500 X	0+	\$3,000 X	0	\$0	\$0	
	Golden Meadow Middle	Golden Meadow	\$4,346,790 X	6	40%	\$1,738,718	\$6,520,185 X	60.0%	\$3,912,111	\$37,500 X	30+	\$3,000 X	365	\$417,370,627	\$417,370,627	
	Larose-Cut Off Middle	Cut Off	\$8,836,840 X	1	14%	\$817,158	\$8,755,280 X	21.0%	\$1,838,605	\$37,500 X	23+	\$3,000 X	134	\$118,632,762	\$118,632,762	
	Lockport Middle	Lockport	\$5,200,980 X	-3	0%	\$0	\$7,801,440 X	0.0%	\$0	\$37,500 X	0+	\$7,000 X	0	\$0	\$0	
	Raceland Middle	Raceland	\$6,899,810 X	-4	0%	\$0	\$10,349,715 X	0.0%	\$0	\$37,500 X	0+	\$10,000 X	0	\$0	\$0	
	Sixth Ward Elementary	Thibodaux	\$2,562,520 X	3	27%	\$691,980	\$3,843,780 X	40.5%	\$1,556,731	\$37,500 X	30+	\$3,000 X	365	\$110,589,000	\$110,589,000	
	West Thibodaux Middle	Thibodaux	\$6,244,950 X	-7	0%	\$0	\$9,367,425 X	0.0%	\$0	\$37,500 X	0+	\$7,000 X	0	\$0	\$0	
	Central LaFourche High	Raceland	\$9,927,380 X	6	40%	\$3,860,856	\$14,891,070 X	60.0%	\$8,686,926	\$50,000 X	30+	\$3,000 X	0	\$0	\$548,595,000	\$548,595,000
	South LaFourche High	Calliano	\$9,652,140 X	6	22%	\$2,434,579	\$16,599,405 X	33.0%	\$5,477,804	\$50,000 X	30+	\$3,000 X	230	\$345,690,000	\$345,690,000	
	Thibodaux High	Thibodaux	\$11,066,270 X	2	0%	\$0	\$7,488,240 X	0.0%	\$0	\$10,000 X	0+	\$3,000 X	0	\$0	\$0	
	Lockport High	Lockport	\$4,992,160 X	-4	0%	\$0	\$7,488,240 X	0.0%	\$0	\$10,000 X	0+	\$3,000 X	0	\$0	\$0	
	Lockport Site	Lockport	\$4,992,160 X	-3	0%	\$0	\$7,488,240 X	0.0%	\$0	\$10,000 X	0+	\$3,000 X	0	\$0	\$0	
	North Campus	Thibodaux	\$4,992,160 X	-6	0%	\$0	\$7,488,240 X	0.0%	\$0	\$10,000 X	0+	\$3,000 X	0	\$0	\$0	
	Central Campus	Thibodaux	\$4,992,160 X	-3	0%	\$0	\$7,488,240 X	0.0%	\$0	\$10,000 X	0+	\$3,000 X	0	\$0	\$0	
	South Campus	Thibodaux	\$4,992,160 X	-3	0%	\$0	\$7,488,240 X	0.0%	\$0	\$10,000 X	0+	\$3,000 X	0	\$0	\$0	
	Bayou LaFourche Marine Institute	Cut Off	\$4,992,160 X	2	22%	\$1,098,275	\$7,488,240 X	33.0%	\$2,471,119	\$10,000 X	30+	\$3,000 X	230	\$69,690,000	\$69,690,000	
	LaFourche Parish Juvenile	Raceland	\$4,992,160 X	7	43%	\$2,146,629	\$7,488,240 X	64.5%	\$4,829,915	\$10,000 X	30+	\$3,000 X	365	\$110,595,000	\$110,595,000	
	Nicholls State University	Thibodaux	\$11,066,270 X	3	27%	\$1,347,883	\$7,488,240 X	40.5%	\$3,032,737	\$10,000 X	30+	\$3,000 X	365	\$114,975,620	\$114,975,620	
	E.D. White Catholic High	Thibodaux	\$7,649,580 X	-4	0%	\$0	\$11,474,370 X	0.0%	\$0	\$37,500 X	0+	\$3,000 X	0	\$0	\$0	
	Holy Rosary Elementary	Larose	\$3,492,610 X	0	0%	\$0	\$5,238,915 X	13.5%	\$707,254	\$20,000 X	15+	\$3,000 X	70	\$21,210,000	\$21,210,000	
Holy Saviour Elementary	Lockport	\$3,359,740 X	-1	0%	\$0	\$5,039,610 X	0.0%	\$0	\$37,500 X	12+	\$3,000 X	48	\$11,178,000	\$11,178,000		
St Genevieve Elementary	Thibodaux	\$4,536,600 X	-5	0%	\$0	\$6,804,900 X	0.0%	\$0	\$37,500 X	0+	\$3,000 X	0	\$0	\$0		
St Marys Nativity School	Raceland	\$2,752,330 X	-4	0%	\$0	\$4,128,485 X	0.0%	\$0	\$10,000 X	0+	\$10,000 X	0	\$0	\$0		
St Joseph Elementary	Thibodaux	\$6,852,380 X	-4	0%	\$0	\$10,228,540 X	0.0%	\$0	\$37,500 X	0+	\$3,000 X	0	\$0	\$0		
LaFourche Parish Water District #1-North	LaFourche Parish	\$4,000,000 X	6	40%	\$1,600,000	\$6,000,000 X	60.0%	\$3,600,000	\$20,000 X	30+	\$1,000 X	365	\$219,385,000	\$219,385,000		
Golden Meadow Reverse Osmosis	Golden Meadow	\$4,000,000 X	11	45%	\$1,800,000	\$6,000,000 X	67.5%	\$4,050,000	\$20,000 X	30+	\$1,000 X	365	\$225,215,000	\$225,215,000		
LaFourche Parish Water District #1-Central	Lockport	\$4,000,000 X	-1	0%	\$0	\$6,000,000 X	0.0%	\$0	\$20,000 X	12+	\$1,000 X	48	\$11,086,000	\$11,086,000		
Aurion's Sewer Utility-Bon Saray	Thibodaux	\$300,000 X	-6	0%	\$0	\$450,000 X	0.0%	\$0	\$1,000 X	23+	\$1,500 X	134	\$3,102,100	\$3,102,100		
City of Thibodaux Waste Water Treatment	Larose	\$400,000 X	3	27%	\$108,000	\$600,000 X	40.5%	\$243,000	\$5,000 X	30+	\$5,000 X	365	\$54,823,000	\$54,823,000		
Community Sewerage Service-Thibodaux	Thibodaux	\$4,000,000 X	-2	0%	\$0	\$6,000,000 X	0.0%	\$0	\$37,500 X	10+	\$20,000 X	30	\$11,850,000	\$11,850,000		
Community Sewerage Service-St Maurice	Thibodaux	\$4,000,000 X	1	14%	\$560,000	\$6,000,000 X	21.0%	\$1,260,000	\$37,500 X	23+	\$20,000 X	134	\$219,182,500	\$219,182,500		
LaFourche Parish Sewer-Bayou Vista	Thibodaux	\$1,000,000 X	3	27%	\$270,000	\$1,500,000 X	40.5%	\$607,500	\$20,000 X	30+	\$600 X	365	\$220,080,000	\$220,080,000		
Lewisston Community Sewerage	Raceland	\$4,000,000 X	4	29%	\$1,160,000	\$6,000,000 X	43.5%	\$2,610,000	\$37,500 X	30+	\$2,000 X	365	\$411,385,000	\$411,385,000		
Lockport-Town of WWTP	Lockport	\$6,000,000 X	5	30%	\$1,800,000	\$9,000,000 X	45.0%	\$4,050,000	\$37,500 X	30+	\$3,000 X	365	\$417,570,000	\$417,570,000		
M.L. Mail Supply Berks INC.	Lockport	\$400,000 X	-4	0%	\$0	\$600,000 X	0.0%	\$0	\$3,000 X	0+	\$0	0	\$0	\$0		
Service Sanitary Corp.-Thibodaux	Thibodaux	\$300,000 X	-7	0%	\$0	\$450,000 X	0.0%	\$0	\$1,000 X	0+	\$1,500 X	134	\$3,102,100	\$3,102,100		
TESI-Mamoula Park Service	Thibodaux	\$300,000 X	1	14%	\$42,000	\$450,000 X	21.0%	\$94,500	\$1,000 X	23+	\$1,500 X	134	\$3,102,100	\$3,102,100		
TESI-Plantation/Legion	Thibodaux	\$300,000 X	1	14%	\$42,000	\$450,000 X	21.0%	\$94,500	\$1,000 X	23+	\$1,500 X	134	\$3,102,100	\$3,102,100		
Twin Oaks Service Corp.-Raceland	Raceland	\$4,000,000 X	6	40%	\$1,600,000	\$6,000,000 X	60.0%	\$3,600,000	\$37,500 X	30+	\$4,000 X	365	\$417,285,000	\$417,285,000		
Woodland Heights INC.	Thibodaux	\$8,000,000 X	3	27%	\$2,160,000	\$12,000,000 X	40.5%	\$4,860,000	\$50,000 X	30+	\$4,000 X	365	\$548,980,000	\$548,980,000		
	Replacement Value Total		\$341,695,780					Total Estimated Losses						\$46,792,933		
								Total Contents Loss						\$105,284,100		
								Total Structure Use and Function Loss						\$8,011,117,200		
														\$8,163,194,233		

Attachment c2-23.2
Worksheet #4—Estimated Losses (Composite Risk Area)

Type of Asset	Name/Description of Structure	City	Structure Loss				Contents Loss				Structure Use and Function Loss				Structure Loss+Content Loss+Function Loss (\$)
			Structure Replacement Value (\$)	Inundation (ft)	Percent Damage (%)	Loss to Structure (\$)	Replacement of Contents Value (\$)	Percent Damage (%)	Loss to Contents (\$)	Average Daily Operating Budget (\$)	Functional Downtime	Displacement Cost Per Day	Displacement Time	Structure Use & Function Cost	
Hospitals	Thibodaux Reg. Med Center	Thibodaux	\$10,000,000	-7	0%	\$0	\$15,000,000	0%	\$0	\$50,000	0+	\$1,000	0	\$0	\$0
	Chachere/St Anna Hospital	Reichard	\$10,000,000	-6	0%	\$0	\$15,000,000	0%	\$0	\$50,000	0+	\$1,000	0	\$0	\$0
	Lady of the Sea Hospital	Cat Off	\$10,000,000	3	27%	\$2,700,000	\$15,000,000	40.5%	\$6,075,000	\$10,000	30+	\$1,000	75	\$547,865,000	\$566,640,000
	Lafourche Parish Health Unit	Thibodaux	\$2,000,000	0	9%	\$180,000	\$3,000,000	13.5%	\$405,000	\$10,000	15+	\$5,000	30	\$1,435,000	\$1,435,000
	Lafourche Parish Health Unit	Cat Off	\$2,000,000	2	22%	\$440,000	\$3,000,000	33.0%	\$990,000	\$10,000	30+	\$1,000	230	\$69,230,000	\$70,660,000
	Department of Health and Hospital	Thibodaux	\$2,000,000	0	9%	\$180,000	\$3,000,000	13.5%	\$405,000	\$10,000	15+	\$5,000	30	\$1,435,000	\$1,435,000
	Thibodaux Police Department	Thibodaux	\$2,000,000	-8	0%	\$0	\$3,000,000	0%	\$0	\$10,000	0+	\$1,000	0	\$0	\$0
	Lafourche Parish Sheriff	Thibodaux	\$2,000,000	-8	0%	\$0	\$3,000,000	0%	\$0	\$10,000	0+	\$1,000	0	\$0	\$0
	Lafourche Parish Sheriff	Reichard	\$2,000,000	-5	0%	\$0	\$3,000,000	0%	\$0	\$10,000	0+	\$1,000	0	\$0	\$0
	Lafourche Parish Sheriff	Lockport	\$2,000,000	-8	0%	\$0	\$3,000,000	0%	\$0	\$10,000	0+	\$1,000	0	\$0	\$0
Police Stations	Lafourche Parish Sheriff	Thibodaux	\$2,000,000	-8	0%	\$0	\$3,000,000	0%	\$0	\$10,000	0+	\$1,000	0	\$0	\$0
	Lafourche Parish Sheriff	Thibodaux	\$2,000,000	-8	0%	\$0	\$3,000,000	0%	\$0	\$10,000	0+	\$1,000	0	\$0	\$0
	Lafourche Parish Sheriff	Reichard	\$2,000,000	-5	0%	\$0	\$3,000,000	0%	\$0	\$10,000	0+	\$1,000	0	\$0	\$0
	Lafourche Parish Sheriff	Lockport	\$2,000,000	-8	0%	\$0	\$3,000,000	0%	\$0	\$10,000	0+	\$1,000	0	\$0	\$0
	Lafourche Parish Sheriff	Thibodaux	\$2,000,000	-8	0%	\$0	\$3,000,000	0%	\$0	\$10,000	0+	\$1,000	0	\$0	\$0
	Lafourche Parish Sheriff	Reichard	\$2,000,000	-5	0%	\$0	\$3,000,000	0%	\$0	\$10,000	0+	\$1,000	0	\$0	\$0
	Lafourche Parish Sheriff	Lockport	\$2,000,000	-8	0%	\$0	\$3,000,000	0%	\$0	\$10,000	0+	\$1,000	0	\$0	\$0
	Lafourche Parish Sheriff	Thibodaux	\$2,000,000	-8	0%	\$0	\$3,000,000	0%	\$0	\$10,000	0+	\$1,000	0	\$0	\$0
	Lafourche Parish Sheriff	Reichard	\$2,000,000	-5	0%	\$0	\$3,000,000	0%	\$0	\$10,000	0+	\$1,000	0	\$0	\$0
	Lafourche Parish Sheriff	Lockport	\$2,000,000	-8	0%	\$0	\$3,000,000	0%	\$0	\$10,000	0+	\$1,000	0	\$0	\$0
Schools	Golden Meadow Police Department	Golden Meadow	\$2,000,000	0	9%	\$180,000	\$3,000,000	13.5%	\$405,000	\$10,000	15+	\$5,000	30	\$1,435,000	\$1,435,000
	Golden Meadow Police Department	Golden Meadow	\$2,000,000	0	9%	\$180,000	\$3,000,000	13.5%	\$405,000	\$10,000	15+	\$5,000	30	\$1,435,000	\$1,435,000
	La Port Commission and Harbor Police	Golden Meadow	\$2,000,000	3	22%	\$440,000	\$3,000,000	33.0%	\$990,000	\$10,000	30+	\$1,000	230	\$69,230,000	\$70,660,000
	Harbor Police-Port Fourchon	Golden Meadow	\$2,000,000	2	22%	\$440,000	\$3,000,000	33.0%	\$990,000	\$10,000	30+	\$1,000	230	\$69,230,000	\$70,660,000
	Lafourche Fire District #1 Central Station	Reichard	\$200,000	-6	0%	\$0	\$300,000	0%	\$0	\$1,000	0+	\$1,000	0	\$0	\$0
	Lafourche Fire District #1 Station #2	Reichard	\$200,000	-8	0%	\$0	\$300,000	0%	\$0	\$1,000	0+	\$1,000	0	\$0	\$0
	Lafourche Fire District #1 Station #3	Reichard	\$200,000	-8	0%	\$0	\$300,000	0%	\$0	\$1,000	0+	\$1,000	0	\$0	\$0
	Lafourche Fire District #1 Station #4	Reichard	\$200,000	-8	0%	\$0	\$300,000	0%	\$0	\$1,000	0+	\$1,000	0	\$0	\$0
	Lafourche Fire District #1 Station #5	Reichard	\$200,000	-8	0%	\$0	\$300,000	0%	\$0	\$1,000	0+	\$1,000	0	\$0	\$0
	Lafourche Fire District #1 Station #6	Reichard	\$200,000	-8	0%	\$0	\$300,000	0%	\$0	\$1,000	0+	\$1,000	0	\$0	\$0
Essential Facilities	Lafourche Fire District #1 Station #7	Reichard	\$200,000	-8	0%	\$0	\$300,000	0%	\$0	\$1,000	0+	\$1,000	0	\$0	\$0
	Lafourche Fire District #1 Station #8	Reichard	\$200,000	-8	0%	\$0	\$300,000	0%	\$0	\$1,000	0+	\$1,000	0	\$0	\$0
	Lafourche Fire District #1 Station #9	Reichard	\$200,000	-8	0%	\$0	\$300,000	0%	\$0	\$1,000	0+	\$1,000	0	\$0	\$0
	Lockport Fire Department-Maple Station	Reichard	\$200,000	-7	0%	\$0	\$300,000	0%	\$0	\$1,000	0+	\$1,000	0	\$0	\$0
	Lockport Fire Department-Lake Station	Reichard	\$200,000	-6	0%	\$0	\$300,000	0%	\$0	\$1,000	0+	\$1,000	0	\$0	\$0
	Lockport Fire Department-308 Station	Lockport	\$200,000	-4	0%	\$0	\$300,000	0%	\$0	\$1,000	0+	\$1,000	0	\$0	\$0
	Lockport Fire Department-Valentine Station	Lockport	\$200,000	-4	0%	\$0	\$300,000	0%	\$0	\$1,000	0+	\$1,000	0	\$0	\$0
	Lockport Fire Department-Lakeport Central	Lockport	\$200,000	-1	14%	\$28,000	\$300,000	21.0%	\$63,000	\$1,000	23+	\$2,000	134	\$3,108,800	\$3,109,800
	Lafourche Fire District #3 West Lafourche Station	Lafourche	\$200,000	-1	0%	\$0	\$300,000	0%	\$0	\$1,000	0+	\$1,000	0	\$0	\$0
	Lafourche Fire District #3 West Lafourche Station	Lafourche	\$200,000	-1	0%	\$0	\$300,000	0%	\$0	\$1,000	0+	\$1,000	0	\$0	\$0
Fire Stations	Lafourche Fire District #3 East Golden Meadow	Lafourche	\$200,000	-1	0%	\$0	\$300,000	0%	\$0	\$1,000	0+	\$1,000	0	\$0	\$0
	Lafourche Fire District #3 West Cut Off Station	Cut Off	\$200,000	-3	22%	\$44,000	\$300,000	44.0%	\$132,000	\$1,000	30+	\$2,000	365	\$11,023,000	\$11,025,000
	Lafourche Fire District #3 East Cut Off Station	Cut Off	\$200,000	-3	22%	\$44,000	\$300,000	44.0%	\$132,000	\$1,000	30+	\$2,000	365	\$11,023,000	\$11,025,000
	Lafourche Fire District #3 East Cut Off Station	Cut Off	\$200,000	-3	22%	\$44,000	\$300,000	44.0%	\$132,000	\$1,000	30+	\$2,000	365	\$11,023,000	\$11,025,000
	Lafourche Fire District #3 East Cut Off Station	Cut Off	\$200,000	-3	22%	\$44,000	\$300,000	44.0%	\$132,000	\$1,000	30+	\$2,000	365	\$11,023,000	\$11,025,000
	Lafourche Fire District #3 East Cut Off Station	Cut Off	\$200,000	-3	22%	\$44,000	\$300,000	44.0%	\$132,000	\$1,000	30+	\$2,000	365	\$11,023,000	\$11,025,000
	Lafourche Fire District #3 East Cut Off Station	Cut Off	\$200,000	-3	22%	\$44,000	\$300,000	44.0%	\$132,000	\$1,000	30+	\$2,000	365	\$11,023,000	\$11,025,000
	Lafourche Fire District #3 East Cut Off Station	Cut Off	\$200,000	-3	22%	\$44,000	\$300,000	44.0%	\$132,000	\$1,000	30+	\$2,000	365	\$11,023,000	\$11,025,000
	Lafourche Fire District #3 East Cut Off Station	Cut Off	\$200,000	-3	22%	\$44,000	\$300,000	44.0%	\$132,000	\$1,000	30+	\$2,000	365	\$11,023,000	\$11,025,000
	Lafourche Fire District #3 East Cut Off Station	Cut Off	\$200,000	-3	22%	\$44,000	\$300,000	44.0%	\$132,000	\$1,000	30+	\$2,000	365	\$11,023,000	\$11,025,000

Type of Asset	Name/Description of Structure	City	Structure Loss				Contents Loss				Structure Use and Function Loss				Structure Loss+Content Loss+Function Loss (\$)
			Structure Replacement Value (\$)	Inundation (ft)	Percent Damage (%)	Loss to Structure (\$)	Replacement of Contents Value (\$)	Percent Damage (%)	Loss to Contents (\$)	Average Daily Operating Budget (\$)	Functional Downtime	Displacement Cost Per Day	Displacement Time	Structure Use & Function Cost	
Essential Facilities cont.	East Thibodaux Middle	Thibodaux	\$4,992,160X	-6	0% =	\$0	\$7,488,240X	0.0% =	\$0	\$37,500X	0+	\$3,000X	0 =	\$0	\$0
	Golden Meadow Middle	Golden Meadow	\$3,346,790X	4	29% =	\$1,260,569	\$6,520,680X	43.3% =	\$2,636,280	\$37,500X	0+	\$3,000X	0 =	\$411,720,000	\$415,616,650
	Lafourche-Cut Off Middle	Cut Off	\$3,856,840X	-1	0% =	\$0	\$8,755,680X	0.0% =	\$0	\$37,500X	12+	\$3,000X	48 =	\$20,858,000	\$20,858,000
	Lockport Middle	Lockport	\$5,200,960X	-5	0% =	\$0	\$7,801,440X	0.0% =	\$0	\$37,500X	0+	\$7,000X	0 =	\$0	\$0
	Raceland Middle	Raceland	\$6,899,810X	-5	0% =	\$0	\$10,349,715X	0.0% =	\$0	\$37,500X	0+	\$7,500X	0 =	\$0	\$0
	Sixth Ward Elementary	Thibodaux	\$2,562,520X	1	1% =	\$356,753	\$3,843,780X	21.0% =	\$807,194	\$10,000X	23+	\$3,000X	134 =	\$31,222,000	\$32,387,947
	West Thibodaux Middle	Thibodaux	\$8,244,960X	-8	0% =	\$0	\$9,367,428X	0.0% =	\$0	\$37,500X	0+	\$7,000X	0 =	\$0	\$0
	Central Lafourche High	Raceland	\$9,927,380X	-6	0% =	\$2,606,078	\$14,891,070X	0.0% =	\$0	\$50,000X	0+	\$10,000X	0 =	\$10,000X	\$0
	South Lafourche High	Calliano	\$9,652,140X	3	27% =	\$2,606,078	\$14,478,210X	40.5% =	\$5,865,675	\$50,000X	30+	\$3,000X	365 =	\$548,595,000	\$557,064,753
	Thibodaux High	Thibodaux	\$11,066,270X	0	9% =	\$995,964	\$16,659,405X	13.5% =	\$2,240,920	\$80,000X	15+	\$3,000X	70 =	\$52,710,000	\$55,946,884
	Thibodaux High	Thibodaux	\$4,992,160X	-6	0% =	\$0	\$7,488,240X	0.0% =	\$0	\$10,000X	0+	\$3,000X	0 =	\$0	\$0
	Lockport Site	Lockport	\$4,992,160X	-5	0% =	\$0	\$7,488,240X	0.0% =	\$0	\$10,000X	0+	\$3,000X	0 =	\$0	\$0
	North Campus	Thibodaux	\$4,992,160X	-7	0% =	\$0	\$7,488,240X	0.0% =	\$0	\$10,000X	0+	\$3,000X	0 =	\$0	\$0
	Central Campus	Thibodaux	\$4,992,160X	-5	0% =	\$0	\$7,488,240X	0.0% =	\$0	\$10,000X	0+	\$3,000X	0 =	\$0	\$0
	South Campus	Cut Off	\$4,992,160X	0	9% =	\$0	\$7,488,240X	13.5% =	\$1,010,912	\$10,000X	15+	\$3,000X	70 =	\$10,710,000	\$10,710,000
	Bayou Lafourche Marine Institute	Raceland	\$4,992,160X	0	30% =	\$449,234	\$7,488,240X	45.0% =	\$3,389,708	\$10,000X	30+	\$3,000X	365 =	\$110,595,000	\$115,462,586
	Lafourche Parish Juvenile	Thibodaux	\$4,992,160X	5	14% =	\$698,902	\$7,488,240X	21.0% =	\$1,572,530	\$10,000X	23+	\$3,000X	134 =	\$31,222,000	\$33,493,433
	Nicholls State University	Thibodaux	\$11,066,270X	-6	0% =	\$0	\$16,599,405X	0.0% =	\$0	\$10,000X	0+	\$3,000X	0 =	\$0	\$0
	E.D. White Catholic High	Larose	\$7,649,580X	-5	0% =	\$0	\$11,474,370X	0.0% =	\$0	\$37,500X	0+	\$3,000X	0 =	\$0	\$0
	Holy Rosary Elementary	Larose	\$3,492,610X	-1	0% =	\$0	\$5,238,915X	0.0% =	\$0	\$20,000X	12+	\$3,000X	48 =	\$11,178,000	\$11,178,000
Holy Savior Elementary	Lockport	\$3,359,740X	-3	0% =	\$0	\$5,039,610X	0.0% =	\$0	\$20,000X	0+	\$3,000X	0 =	\$0	\$0	
St. Genevieve Elementary	Thibodaux	\$4,536,600X	-6	0% =	\$0	\$6,804,900X	0.0% =	\$0	\$37,500X	0+	\$3,000X	0 =	\$0	\$0	
St. Genevieve Elementary	Raceland	\$2,752,330X	-6	0% =	\$0	\$4,128,495X	0.0% =	\$0	\$10,000X	0+	\$3,000X	0 =	\$0	\$0	
St. Marys Nativity School	Thibodaux	\$6,852,360X	-6	0% =	\$0	\$10,278,540X	0.0% =	\$0	\$37,500X	0+	\$3,000X	0 =	\$0	\$0	
Lafourche Parish District #1-North	Lafourche Parish	\$4,000,000X	4	29% =	\$1,160,000	\$6,000,000X	43.5% =	\$2,610,000	\$20,000X	30+	\$1,000X	365 =	\$219,365,000	\$223,135,000	
Golden Meadow Reserve Crosses	Golden Meadow	\$4,000,000X	8	44% =	\$1,760,000	\$6,000,000X	66.0% =	\$3,960,000	\$20,000X	30+	\$1,000X	365 =	\$219,365,000	\$223,135,000	
Lafourche Parish District #1-Central	Lockport	\$4,000,000X	-2	0% =	\$0	\$6,000,000X	0.0% =	\$0	\$20,000X	10+	\$1,000X	30 =	\$6,030,000	\$6,030,000	
City of Thibodaux Water Plant	Thibodaux	\$3,000,000X	-8	9% =	\$27,000	\$6,000,000X	13.5% =	\$80,750	\$20,000X	0+	\$1,000X	0 =	\$0	\$0	
Aucorn's Sewer Utility-Born Serv	Larose	\$3,000,000X	1	14% =	\$56,000	\$450,000X	21.0% =	\$90,750	\$1,000X	15+	\$1,500X	70 =	\$1,060,500	\$1,148,250	
City of Thibodaux Waste Water Treatment	Thibodaux	\$4,000,000X	1	1% =	\$56,000	\$6,000,000X	0.0% =	\$0	\$5,000X	23+	\$2,000X	134 =	\$15,456,800	\$15,618,800	
Community Sewerage Service-Thibodaux	Thibodaux	\$4,000,000X	-4	0% =	\$0	\$6,000,000X	0.0% =	\$0	\$37,500X	0+	\$2,000X	0 =	\$0	\$0	
Community Sewerage Service-Thibodaux	Thibodaux	\$4,000,000X	-1	0% =	\$0	\$6,000,000X	0.0% =	\$0	\$37,500X	12+	\$2,000X	48 =	\$21,620,000	\$21,620,000	
Lafourche Parish Sewer-St. Maurice	Thibodaux	\$1,000,000X	-1	14% =	\$140,000	\$1,500,000X	21.0% =	\$315,000	\$20,000X	23+	\$2,000X	134 =	\$62,162,000	\$62,162,000	
Lafourche Parish Sewer-Bayou Vist	Thibodaux	\$4,000,000X	1	14% =	\$560,000	\$6,000,000X	21.0% =	\$1,176,000	\$37,500X	23+	\$2,000X	134 =	\$117,843,000	\$117,843,000	
Lewisston Community Sewerage	Raceland	\$4,000,000X	2	22% =	\$880,000	\$9,000,000X	33.3% =	\$2,970,000	\$37,500X	30+	\$3,000X	230 =	\$259,440,000	\$263,730,000	
Lockport-Town of MW/WTP	Lockport	\$4,000,000X	-5	0% =	\$0	\$6,000,000X	0.0% =	\$0	\$5,000X	0+	\$2,000X	0 =	\$0	\$0	
M.L. Loyal Supply Boats, INC.	Thibodaux	\$300,000X	-9	0% =	\$0	\$450,000X	0.0% =	\$0	\$1,000X	0+	\$1,500X	0 =	\$0	\$0	
Service Sanitary Corp.-Thibodaux	Thibodaux	\$300,000X	-1	0% =	\$0	\$450,000X	0.0% =	\$0	\$1,000X	12+	\$1,500X	48 =	\$558,900	\$558,900	
TESI-Magnolia Park Service	Thibodaux	\$300,000X	-1	0% =	\$0	\$450,000X	0.0% =	\$0	\$1,000X	12+	\$1,500X	48 =	\$558,900	\$558,900	
TESI-Parish/Union/Leidion	Raceland	\$4,000,000X	-3	27% =	\$1,090,000	\$6,000,000X	40.5% =	\$2,430,000	\$37,500X	30+	\$4,000X	369 =	\$412,085,000	\$415,595,000	
Twin Oaks Service Corp.-Raceland	Raceland	\$4,000,000X	3	14% =	\$560,000	\$12,000,000X	21.0% =	\$2,520,000	\$30,000X	23+	\$4,000X	134 =	\$154,656,000	\$158,276,000	
Woodland Heights INC.	Thibodaux	\$4,000,000X	1	14% =	\$560,000	\$12,000,000X	21.0% =	\$2,520,000	\$30,000X	23+	\$4,000X	134 =	\$154,656,000	\$158,276,000	
Replacement Value Total			\$341,695,780		Total Estimated Losses		\$28,237,764		\$63,534,969		Total Structure Use and Function Loss		\$5,122,757,700	\$5,214,530,433	

**Attachment c2-23.3
Worksheet #4—Estimated Losses (Hurricane)**

Worksheet #4: Estimated Structure Loss (Hurricane)

Type of Asset	Name/Description of Structure	City	Structure Loss			Contents Loss			Structure Use and Function Loss				Structure Loss+Content Loss+Function Loss (\$)	
			Structure Replacement Value (\$)	Percent Damage (%)	Loss to Structure (\$)	Replacement of Contents Value (\$)	Percent Damage (%)	Loss to Contents (\$)	Average Daily Operating Budget (\$)	Functional Downtime	Displacement Cost Per Day	Displacement Time		Structure Use & Function Cost
Hospitals	Thibodaux Reg. Med Center	Thibodaux	\$10,000,000	29%	\$2,900,000	\$15,000,000	0.0%	\$0	\$50,000	0+	\$1,000	0	\$0	\$2,900,000
	Ochsner St. Ann's Hospital	Thibodaux	\$2,900,000	29%	\$840,000	\$15,000,000	0.0%	\$0	\$50,000	0+	\$1,000	0	\$0	\$840,000
	Lady of the Sea Hospital	Cat-O-R	\$10,000,000	29%	\$2,900,000	\$15,000,000	40.5%	\$6,075,000	\$50,000	30+	\$1,000	365	\$547,865,000	\$566,840,000
	Lafourche Parish Health Unit	Thibodaux	\$2,000,000	29%	\$580,000	\$3,000,000	13.5%	\$405,000	\$10,000	70	\$5,000	70	\$5,000	\$1,835,000
	Lafourche Parish Health Unit	Cat-O-R	\$2,000,000	29%	\$580,000	\$3,000,000	33.0%	\$990,000	\$10,000	30+	\$1,000	230	\$69,230,000	\$700,900,000
	Department of Health and Hospital	Thibodaux	\$2,000,000	29%	\$580,000	\$3,000,000	13.5%	\$405,000	\$10,000	15+	\$1,000	70	\$0	\$11,555,000
	Thibodaux Police Department	Thibodaux	\$2,000,000	29%	\$580,000	\$3,000,000	0.0%	\$0	\$10,000	0+	\$1,000	0	\$0	\$580,000
	Lafourche Parish Sheriff	Thibodaux	\$2,000,000	29%	\$580,000	\$3,000,000	0.0%	\$0	\$10,000	0+	\$1,000	0	\$0	\$580,000
	Lafourche Parish Sheriff	Thibodaux	\$2,000,000	29%	\$580,000	\$3,000,000	0.0%	\$0	\$10,000	0+	\$1,000	0	\$0	\$580,000
	Lafourche Parish Sheriff	Thibodaux	\$2,000,000	29%	\$580,000	\$3,000,000	0.0%	\$0	\$10,000	0+	\$1,000	0	\$0	\$580,000
Police Stations	Lafourche Parish Sheriff	Thibodaux	\$2,000,000	29%	\$580,000	\$3,000,000	13.5%	\$405,000	\$10,000	15+	\$1,000	70	\$0	\$11,555,000
	Lafourche Parish Sheriff	Thibodaux	\$2,000,000	29%	\$580,000	\$3,000,000	13.5%	\$405,000	\$10,000	15+	\$1,000	70	\$0	\$11,555,000
	Lafourche Parish Sheriff	Thibodaux	\$2,000,000	29%	\$580,000	\$3,000,000	13.5%	\$405,000	\$10,000	15+	\$1,000	70	\$0	\$11,555,000
	Lafourche Parish Sheriff	Thibodaux	\$2,000,000	29%	\$580,000	\$3,000,000	13.5%	\$405,000	\$10,000	15+	\$1,000	70	\$0	\$11,555,000
	Lafourche Parish Sheriff	Thibodaux	\$2,000,000	29%	\$580,000	\$3,000,000	13.5%	\$405,000	\$10,000	15+	\$1,000	70	\$0	\$11,555,000
	Lafourche Parish Sheriff	Thibodaux	\$2,000,000	29%	\$580,000	\$3,000,000	13.5%	\$405,000	\$10,000	15+	\$1,000	70	\$0	\$11,555,000
	Lafourche Parish Sheriff	Thibodaux	\$2,000,000	29%	\$580,000	\$3,000,000	13.5%	\$405,000	\$10,000	15+	\$1,000	70	\$0	\$11,555,000
	Lafourche Parish Sheriff	Thibodaux	\$2,000,000	29%	\$580,000	\$3,000,000	13.5%	\$405,000	\$10,000	15+	\$1,000	70	\$0	\$11,555,000
	Lafourche Parish Sheriff	Thibodaux	\$2,000,000	29%	\$580,000	\$3,000,000	13.5%	\$405,000	\$10,000	15+	\$1,000	70	\$0	\$11,555,000
	Lafourche Parish Sheriff	Thibodaux	\$2,000,000	29%	\$580,000	\$3,000,000	13.5%	\$405,000	\$10,000	15+	\$1,000	70	\$0	\$11,555,000
Essential Facilities	Golden Meadow Police Department	Golden Meadow	\$2,000,000	29%	\$580,000	\$3,000,000	40.5%	\$1,215,000	\$10,000	30+	\$1,000	230	\$69,230,000	\$700,900,000
	La Port Commission and Harbor Police	Golden Meadow	\$2,000,000	29%	\$580,000	\$3,000,000	13.5%	\$405,000	\$10,000	15+	\$1,000	70	\$0	\$11,555,000
	Lafourche Fire District #1 Central Station	Reseland	\$200,000	29%	\$58,000	\$300,000	0.0%	\$0	\$1,000	0+	\$200	0	\$0	\$58,000
	Lafourche Fire District #1 Station #2	Reseland	\$200,000	29%	\$58,000	\$300,000	0.0%	\$0	\$1,000	0+	\$200	0	\$0	\$58,000
	Lafourche Fire District #1 Station #2	Reseland	\$200,000	29%	\$58,000	\$300,000	0.0%	\$0	\$1,000	0+	\$200	0	\$0	\$58,000
	Lafourche Fire District #1 Station #2	Reseland	\$200,000	29%	\$58,000	\$300,000	0.0%	\$0	\$1,000	0+	\$200	0	\$0	\$58,000
	Lafourche Fire District #1 Station #2	Reseland	\$200,000	29%	\$58,000	\$300,000	0.0%	\$0	\$1,000	0+	\$200	0	\$0	\$58,000
	Lafourche Fire District #1 Station #2	Reseland	\$200,000	29%	\$58,000	\$300,000	0.0%	\$0	\$1,000	0+	\$200	0	\$0	\$58,000
	Lafourche Fire District #1 Station #2	Reseland	\$200,000	29%	\$58,000	\$300,000	0.0%	\$0	\$1,000	0+	\$200	0	\$0	\$58,000
	Lafourche Fire District #1 Station #2	Reseland	\$200,000	29%	\$58,000	\$300,000	0.0%	\$0	\$1,000	0+	\$200	0	\$0	\$58,000
Schools	Lockport Fire Department	Lockport	\$200,000	29%	\$58,000	\$300,000	0.0%	\$0	\$1,000	0+	\$200	0	\$0	\$58,000
	Lockport Fire Department	Lockport	\$200,000	29%	\$58,000	\$300,000	0.0%	\$0	\$1,000	0+	\$200	0	\$0	\$58,000
	Lockport Fire Department	Lockport	\$200,000	29%	\$58,000	\$300,000	0.0%	\$0	\$1,000	0+	\$200	0	\$0	\$58,000
	Lockport Fire Department	Lockport	\$200,000	29%	\$58,000	\$300,000	0.0%	\$0	\$1,000	0+	\$200	0	\$0	\$58,000
	Lockport Fire Department	Lockport	\$200,000	29%	\$58,000	\$300,000	0.0%	\$0	\$1,000	0+	\$200	0	\$0	\$58,000
	Lockport Fire Department	Lockport	\$200,000	29%	\$58,000	\$300,000	0.0%	\$0	\$1,000	0+	\$200	0	\$0	\$58,000
	Lockport Fire Department	Lockport	\$200,000	29%	\$58,000	\$300,000	0.0%	\$0	\$1,000	0+	\$200	0	\$0	\$58,000
	Lockport Fire Department	Lockport	\$200,000	29%	\$58,000	\$300,000	0.0%	\$0	\$1,000	0+	\$200	0	\$0	\$58,000
	Lockport Fire Department	Lockport	\$200,000	29%	\$58,000	\$300,000	0.0%	\$0	\$1,000	0+	\$200	0	\$0	\$58,000
	Lockport Fire Department	Lockport	\$200,000	29%	\$58,000	\$300,000	0.0%	\$0	\$1,000	0+	\$200	0	\$0	\$58,000

Type of Asset	Name/Description of Structure	City	Structure Loss			Contents Loss			Structure Use and Function Loss				Structure Loss+Content Loss+Function Loss (\$)	
			Structure Replacement Value (\$)	% Percent Damage (%)	Loss to Structure (\$)	Replacement of Contents Value (\$)	% Percent Damage (%)	Loss to Contents (\$)	Average Daily Operating Budget (\$)	Functional Downtime	Displacement Per Day	Displacement Time		Structure Use & Function Cost
Essential Facilities cont.	East Thibodaux Middle	Thibodaux	\$4,992,160 X	29% =	\$1,447,726	\$7,488,240 X	0.0% =	\$0	\$37,500 X	0+	\$3,000 X	0	\$0	\$1,447,726
	Golden Meadow Middle	Golden Meadow	\$4,346,790 X	29% =	\$1,260,569	\$6,520,185 X	43.5% =	\$2,836,280	\$37,500 X	30+	\$3,000 X	365	\$0	\$411,720,000
	Larose-Cut Off Middle	Cut Off	\$5,836,840 X	29% =	\$1,692,684	\$8,755,260 X	0.0% =	\$0	\$37,500 X	12+	\$3,000 X	46	\$0	\$20,838,000
	Lockport Middle	Lockport	\$5,200,960 X	29% =	\$1,508,278	\$7,801,240 X	0.0% =	\$0	\$37,500 X	0+	\$7,000 X	0	\$0	\$1,508,278
	Raceland Middle	Raceland	\$6,899,810 X	29% =	\$2,000,945	\$10,349,715 X	0.0% =	\$0	\$37,500 X	0+	\$10,000 X	0	\$0	\$2,000,945
	Sixth Ward Elementary	Thibodaux	\$2,962,820 X	29% =	\$849,131	\$3,843,780 X	21.0% =	\$80,194	\$10,000 X	23+	\$3,000 X	134	\$0	\$31,222,000
	West Thibodaux Middle	Thibodaux	\$6,244,950 X	29% =	\$1,811,036	\$9,367,425 X	0.0% =	\$0	\$37,500 X	0+	\$7,000 X	0	\$0	\$1,811,036
	Central LaFourche High	Raceland	\$9,927,890 X	29% =	\$2,878,940	\$14,891,070 X	0.0% =	\$0	\$50,000 X	0+	\$10,000 X	0	\$0	\$2,878,940
	South LaFourche High	Thibodaux	\$9,652,140 X	29% =	\$2,799,121	\$14,478,210 X	40.5% =	\$5,863,675	\$50,000 X	30+	\$3,000 X	365	\$0	\$548,595,000
	Thibodaux High	Thibodaux	\$11,066,270 X	29% =	\$3,209,218	\$16,599,409 X	13.5% =	\$2,240,920	\$50,000 X	15+	\$3,000 X	70	\$0	\$52,710,000
	Thibodaux Site	Thibodaux	\$4,992,160 X	29% =	\$1,447,726	\$7,488,240 X	0.0% =	\$0	\$10,000 X	0+	\$3,000 X	0	\$0	\$1,447,726
	North Campus	Thibodaux	\$4,992,160 X	29% =	\$1,447,726	\$7,488,240 X	0.0% =	\$0	\$10,000 X	0+	\$3,000 X	0	\$0	\$1,447,726
	Central Campus	Mathews	\$4,992,160 X	29% =	\$1,447,726	\$7,488,240 X	0.0% =	\$0	\$10,000 X	0+	\$3,000 X	0	\$0	\$1,447,726
	South Campus	Cut Off	\$4,992,160 X	29% =	\$1,447,726	\$7,488,240 X	13.5% =	\$1,010,912	\$10,000 X	13+	\$3,000 X	70	\$0	\$10,710,000
	Bayou LaFourche Marine Institute	Raceland	\$4,992,160 X	29% =	\$1,447,726	\$7,488,240 X	45.0% =	\$3,369,708	\$10,000 X	30+	\$3,000 X	365	\$0	\$110,595,000
	LaFourche Parish Juvenile	Thibodaux	\$4,992,160 X	29% =	\$1,447,726	\$7,488,240 X	21.0% =	\$1,572,530	\$10,000 X	23+	\$3,000 X	134	\$0	\$31,222,000
	Nicholls State University	Thibodaux	\$11,066,270 X	29% =	\$3,209,218	\$16,599,409 X	0.0% =	\$0	\$10,000 X	0+	\$3,000 X	0	\$0	\$3,209,218
	E.D. White Catholic High	Thibodaux	\$7,649,580 X	29% =	\$2,218,378	\$11,474,370 X	0.0% =	\$0	\$37,500 X	12+	\$3,000 X	46	\$0	\$2,218,378
	Holy Rosary Elementary	Larose	\$3,492,810 X	29% =	\$1,012,857	\$5,239,815 X	0.0% =	\$0	\$20,000 X	0+	\$3,000 X	0	\$0	\$1,012,857
	Holy Savior Elementary	Lockport	\$3,359,240 X	29% =	\$974,325	\$5,039,810 X	0.0% =	\$0	\$20,000 X	0+	\$3,000 X	0	\$0	\$974,325
St. Genevieve Elementary	Thibodaux	\$4,536,600 X	29% =	\$1,315,614	\$6,804,900 X	0.0% =	\$0	\$37,500 X	0+	\$3,000 X	0	\$0	\$1,315,614	
St. Marys Nativity School	Raceland	\$2,782,530 X	29% =	\$811,987,184	\$4,128,599 X	0.0% =	\$0	\$10,000 X	0+	\$3,000 X	0	\$0	\$811,987,184	
St. Joseph Elementary	Thibodaux	\$6,892,960 X	29% =	\$1,997,184	\$10,278,540 X	0.0% =	\$0	\$37,500 X	0+	\$3,000 X	0	\$0	\$1,997,184	
Potable Water	LaFourche Parish Water District #1-North	LaFourche Parish	\$4,000,000 X	29% =	\$1,160,000	\$6,000,000 X	43.5% =	\$2,610,000	\$20,000 X	30+	\$1,000 X	365	\$0	\$219,365,000
	Golden Meadow Reverse Osmosis	Golden Meadow	\$4,000,000 X	29% =	\$1,160,000	\$6,000,000 X	66.0% =	\$3,960,000	\$20,000 X	30+	\$1,000 X	365	\$0	\$224,485,000
	LaFourche Parish Water District #1-Central	Lockport	\$4,000,000 X	29% =	\$1,160,000	\$6,000,000 X	0.0% =	\$0	\$20,000 X	10+	\$1,000 X	30	\$0	\$7,190,000
	City of Thibodaux Water Plant	Thibodaux	\$4,000,000 X	29% =	\$1,160,000	\$6,000,000 X	0.0% =	\$0	\$20,000 X	0+	\$1,000 X	0	\$0	\$1,160,000
	Aucott's Sewer Utility-Bon Serv	Larose	\$300,000 X	29% =	\$87,000	\$450,000 X	13.5% =	\$60,750	\$1,000 X	15+	\$150 X	70	\$0	\$1,080,500
	City of Thibodaux Waste Water Treatment	Thibodaux	\$400,000 X	29% =	\$116,000	\$600,000 X	21.0% =	\$126,000	\$3,000 X	23+	\$200 X	134	\$0	\$15,436,800
	Community Sewerage Service-Thibodaux	Thibodaux	\$4,000,000 X	29% =	\$1,160,000	\$6,000,000 X	0.0% =	\$0	\$37,500 X	0+	\$20,000 X	0	\$0	\$1,160,000
	Community Sewerage Service-Si Maurice	Thibodaux	\$4,000,000 X	29% =	\$1,160,000	\$6,000,000 X	0.0% =	\$0	\$37,500 X	12+	\$20,000 X	46	\$0	\$21,620,000
	LaFourche Parish Sewer-Bayou Vist	Thibodaux	\$1,000,000 X	29% =	\$290,000	\$1,500,000 X	21.0% =	\$315,000	\$20,000 X	23+	\$500 X	134	\$0	\$61,707,000
	Lewistown Community Sewerage	Raceland	\$4,000,000 X	29% =	\$1,160,000	\$6,000,000 X	21.0% =	\$1,260,000	\$37,500 X	23+	\$2,000 X	134	\$0	\$118,263,000
	Lockport-Town-of-W/WTP	Lockport	\$6,000,000 X	29% =	\$1,740,000	\$9,000,000 X	33.0% =	\$2,970,000	\$37,500 X	30+	\$3,000 X	230	\$0	\$259,440,000
	M.L. Lyral Supply Boats INC.	Lockport	\$400,000 X	29% =	\$116,000	\$600,000 X	0.0% =	\$0	\$5,000 X	0+	\$200 X	0	\$0	\$116,000
	Services Sanitary Corp.-Thibodaux	Thibodaux	\$300,000 X	29% =	\$87,000	\$450,000 X	0.0% =	\$0	\$1,000 X	0+	\$150 X	46	\$0	\$568,900
	TESI-Hibernola Park Service	Thibodaux	\$300,000 X	29% =	\$87,000	\$450,000 X	0.0% =	\$0	\$1,000 X	12+	\$150 X	46	\$0	\$568,900
	TESI-Plantation/Leighton	Thibodaux	\$300,000 X	29% =	\$87,000	\$450,000 X	0.0% =	\$0	\$1,000 X	12+	\$150 X	46	\$0	\$568,900
Twin Oaks Service Corp.-Raceland	Raceland	\$4,000,000 X	29% =	\$1,160,000	\$6,000,000 X	40.5% =	\$2,430,000	\$37,500 X	30+	\$4,000 X	365	\$0	\$412,085,000	
Woodland Heights INC.	Thibodaux	\$8,000,000 X	29% =	\$2,320,000	\$12,000,000 X	21.0% =	\$2,520,000	\$50,000 X	23+	\$4,000 X	134	\$0	\$154,636,000	
	Replacement Value Total		\$341,695,780		\$99,091,776		\$63,534,969		\$5,285,384,445		\$5,122,757,700		\$5,285,384,445	

**Attachment c3-1
Lafourche Parish List of Projects**

**Lafourche Parish Hazard Mitigation Plan Update
Initial List of Projects**

Source	No.	Project	Eligible	Explanation of Eligibility
Coastal Wetlands Planning Protection & Restoration Act				
A	1	East Timbalier Island Sediment Restoration, Phase 1	No	Coastal restoration projects are not eligible for HMGP funding
	2	East Timbalier Island Sediment Restoration, Phase 2	No	Coastal restoration projects are not eligible for HMGP funding
	3	Flotant Marsh Fencing Demonstration (Deauthorized)	No	Coastal restoration projects are not eligible for HMGP funding
	4	Grand Bayou Hydrologic Restoration	No	Coastal restoration projects are not eligible for HMGP funding
	5	West Belle Pass Barrier Headland Restoration	No	Coastal restoration projects are not eligible for HMGP funding
	6	West Belle Pass Headland Restoration	No	Coastal restoration projects are not eligible for HMGP funding
Coastal Impact Assistance Program				
B	1	Maritime Forest Ridge Restoration	No	Coastal restoration projects are not eligible for HMGP funding
	2	NW Little Lake Marsh Creation and Enhancement	No	Coastal restoration projects are not eligible for HMGP funding
	3	Small Dredge Program	No	Dredging is not eligible for HMGP funding
	4	LA 1 Improvements -- Phase 1A -- Elevation of Roadway from Fourchon to Leeville Bridge	Potentially	State priority, in progress
	5	Mississippi River Long Distance Sediment Pipeline	No	Coastal restoration projects are not eligible for HMGP funding
Coastal Protection and Restoration Authority				
C	1	Increasing the levee height from Larose to Golden Meadow for Hurricane Protection	No	Levee improvements are not eligible for HMGP funding
	2	Raise/Maintain 20 mile section of LA-1 from Golden meadow to Port Fourchon	Potentially	State priority
	3	Upper Barataria Basin Hydrologic Improvements at Highway 90 between Boutte and Raceland	No	Hydrologic improvements are not eligible for HMGP funding
	4	Mississippi River Diversion at Bayou Lafourche	No	River diversion is not eligible for HMGP funding
	5	Ridge Habitat Restoration in Barataria Basin for 23 miles of natural ridge	No	Habitat restoration is not eligible for HMGP funding
	6	Barrier Shoreline Restoration from Sandy Point to Bayou Lafourche	No	Barrier shoreline restoration is not eligible for HMGP funding
	7	Larose to Golden Meadow Hurricane Protection - raising the height of the existing levee for 24 miles	No	Levee improvements are not eligible for HMGP funding
ESF-14 (Lafourche Parish Long Term Recovery Plan)				
D	1	Manage Effluent -- Bayou Lafourche -- decrease salinity and increase the amount of available freshwater	No	Decreasing salinity and increasing freshwater availability is not eligible for HMGP funding
	2	Initiate the LA 1 Marsh Creation Project -- develop marsh and ridge land under LA 1 elevated structure	No	Developing marsh and ridgeland is not eligible for HMGP funding
	3	Restore the Lafourche Barrier Island	No	Barrier island restoration is not eligible for HMGP funding
	4	Restore the Lafourche Parish Coast	No	Coastal restoration projects are not eligible for HMGP funding
	5	Develop Unified Development Code for Lafourche Parish	No	Code development is not eligible for HMGP funding
	6	Develop a Special Needs Registration Database -- allow the government, charitable, and other organizations to share information, in times of disaster, regarding Lafourche residents with special needs	No	Database development is not eligible for HMGP funding
	7	Assess SE Louisiana Medical Service Needs -- address issues and needs concerning strategy, operations, and the physical plant of medical facilities in a post-Hurricane Katrina/Rita environment	No	Assessments are not eligible for HMGP funding
	8	Develop and Implement Mental Wellness Seminars -- addresses mental health issues in Lafourche Parish	No	Seminars are not eligible for HMGP funding
	9	Conduct Critical Facilities Inventory -- establish facilities deemed essential to operational support	No	Inventories are not eligible for HMGP funding
	10	Develop Emergency Family Plans -- Develop outreach and preparedness education resources for developing individual and family emergency plans	No	Emergency plan development is not eligible for HMGP funding
	11	Update Lafourche Emergency Operations Plans -- provide protocols, guidance and sequential action items to assist with administration and documentation of emergency actions	No	Updating of emergency operations plans is not eligible for HMGP funding
	12	Conduct Comp Access Management Study for LA 1 -- develop a transportation management plan for LA 1 from Thibodaux to Golden Meadow	No	Studies are not eligible for HMGP funding
	13	Construct Sanitary Sewer Wastewater Treatment System -- help the parish achieve a goal of maintaining safe drinking water and improve the water quality of the bayou	No	New construction is not eligible for HMGP funding
	14	Construct LA 1 Improvements -- construct a new highway on new alignment generally paralleling the existing LA 1 corridor between Golden Meadow and Port Fourchon	No	New construction is not eligible for HMGP funding
Lafourche Parish Hazard Mitigation Plan (2006)				
E	1	Participate in Christmas Tree Recycling Program to decrease coastal erosion	No	Participation in programs are not eligible for HMGP funding
	2	Maintain and inspect drainage ways by removing any obstructions, keeping grass cut, and replacing any inferior culverts specifically along Hwy 1 in Golden Meadow	Potentially	Maintenance is not eligible for HMGP funding, but upgrading of culverts is eligible
	3	Sponsor a "Multi-Hazard Awareness" Week	5%	Public education is eligible under the 5% initiative
	4	Annually review and correct the RL list by submitting correction sheets to FEMA	No	Corrections to RL list is not eligible for HMGP funding
	5	Adopt IBCs by ordinance	No	Adoption of policy is not eligible for HMGP funding
	6	Identify improved local evacuation routes that do not flood	No	Identification of evacuation routes is not eligible for HMGP funding
	7	Evaluate where erosion control projects are needed	No	Erosion projects are not eligible for HMGP funding
	8	Maintain and inspect all Parish Levees	No	Maintenance is not eligible for HMGP funding
	9	Increase pumping capacity for forced drainage systems associates with hurricane protection	Potentially	Increasing pumping capacity is eligible for HMGP funding
	10	Enhance the mosquito abatement program	No	Enhancement of mosquito abatement program is not eligible for HMGP funding
	11	Construct more directional barriers (locks and floodgates)	No	New construction is not eligible for HMGP funding
	12	Implement a public notification system (sirens, call down system)	5%	Public notification systems are eligible for 5% initiative HMGP funding
	13	Generators -- Sheriff's Office, Water Plants, Communications Infrastructure	5%	Generators are eligible for 5% Initiative HMGP funding
	14	Promote purchase of flood insurance	No	Flood insurance promotion is not eligible for HMGP funding
	15	Initiate public education about termites	No	Termite education is not eligible for HMGP funding
	16	Continue Mitigating RL properties	Potentially	Mitigation of residential properties is eligible for HMGP funding
	17	Develop a comprehensive drainage plan	No	Drainage plans are not eligible for HMGP funding
	18	Investigate and implement a localized interior drainage project in each RL area	Potentially	Drainage Improvements are eligible for HMGP funding
	19	Seek funding for additional hurricane protection levees	No	New construction is not eligible for HMGP funding
	20	Support rebuilding of barrier islands and beach stabilization	No	Coastal restoration projects are not eligible for HMGP funding
	21	Improve Parish's CRS rating	No	Improvement of CRS rating is not eligible for HMGP funding
	22	Implement Debris Removal Plan	No	Implementation of debris removal plan is not eligible for HMGP funding
	23	Develop additional subdivision guidelines	No	Policy implementation is not eligible for HMGP funding

Lafourche Parish Capital Outlay				
F	1	South Lafourche Levee District -- Larose to Golden Meadow Hurricane Protection. Leon Theriot Lock, Planning and Construction	No	New construction is not eligible for HMGP funding
	2	LA 1 improvements -- Phase 2 Pre-Construction.	No	New construction is not eligible for HMGP funding
	3	Company Canal pump station -- planning and construction	No	New construction is not eligible for HMGP funding
	4	Emergency generator for Lockport Wastewater Treatment Plant -- planning, acquisition, and installation	5%	Generators are eligible for 5% Initiative HMGP funding
	5	North Lafourche Conservation Levee and Drainage District -- Lockport and Larose levee and Parr pump station improvements	No	Levee improvements are not eligible for HMGP funding
Lafourche Parish Department of Public Works				
G	1	West Camelia 10" pump station addition	Potentially	Pump station upgrades are eligible for HMGP funding
	2	Leighton 48" Pump Station addition	Potentially	Pump station upgrades are eligible for HMGP funding
	3	Morvant Pump Station - Rebuilding entire station & change pumps from belt drives to gear drives	No	Rebuilding of pump station is not eligible for HMGP funding
	4	Choupic Levee Installation of Culverts & Pump Station	No	New construction is not eligible for HMGP funding
	5	Manchester Manor 36" Pump Station Installation	No	New construction is not eligible for HMGP funding
	6	Bayou Des Allemands Bulkhead Engineering Study & Recommendations	Potentially	Needs More Information
	7	Emerald Park Engineering Drainage Study & Recommendations	Potentially	Needs More Information
	8	Laurel Valley Road Engineering, Surveying & Improvement	Potentially	Needs More Information
	9	Mary Beth Bridge Repairs - Replace Eroding Bulkhead & Approaches	Potentially	Needs More Information
	10	St. Louis Canal Clearing	No	Maintenance is not eligible for HMGP funding
	11	Hollywood Canal/40 Arpent Canal Tree Clearing, Channel Digging	No	Maintenance and new construction are not eligible for HMGP funding
	12	Reviewing Drawings to Bid Out Cyprien Trash Racks	Potentially	Upgrading of trash racks is eligible for HMGP funding
	13	Bayou Folse Road Shoulder Repair	Potentially	Needs More Information
	14	Raceland Prairie District 1 of 12 Pump Installation	Potentially	Needs More Information
	15	Bayou Blue Levee/Pump Station Study	Potentially	Needs More Information
	16	Company Canal Pump Station - addition of four 48" pumps	No	New construction is not eligible for HMGP funding
	17	Jessie Dufrene Pump Station Rebuilding & Improvement	Potentially	Needs More Information
	18	Mathews Canal Digging & Excavation	Potentially	Needs More Information
	19	Twin Oaks Drainage Project Proposal	Potentially	Needs More Information
	20	Rita Bridge Repairs Proposal	No	Bridge repairs are not eligible for HMGP funding
	21	Valentine Bridge Repairs	No	Bridge repairs are not eligible for HMGP funding
	22	Lockport to Larose Levee Engineering, Survey & Acquisition	No	Levee projects are not eligible for HMGP funding
	23	Hamilton to Intracoastal Study by Picciola & Assoc.	No	Studies are not eligible for HMGP funding
	24	Industrial Park Bulkhead Repairs	No	Bulkheads are not eligible for HMGP funding
	25	Industrial Park Flood Wall - engineering completed by Picciola & Assoc.	Potentially	Needs More Information
	26	Larose Pump Station Repairs and Construction	Potentially	Needs More Information
	27	20 Arpent Canal East Cut Off Crossing Repair & Replacement	Potentially	Needs More Information
	28	Cote Blanche Bridge Bidding Process	No	Bridge repairs are not eligible for HMGP funding
	29	Cut Off Elementary Drainage - enhance drainage in the West 54th, 55th, 56th, & 57th areas	No	New construction is not eligible for HMGP funding
	30	Cut Off Elementary Area Installation and/or Replacement of Culverts and Construction Canals	No	New construction is not eligible for HMGP funding
	31	Larose /Cut Off Drainage - completion of drainage project behind Larose Cut Off School	Potentially	Needs More Information
	32	Galliano Airport Canal Tree Clearing and Reservoir Sweeping	Potentially	Needs More Information
	33	Galliano Bridge Repairs - barge will be blasted and recoated, bridge house will be repaired	No	Bridge repairs are not eligible for HMGP funding
	34	Serigny Pump Relocation - working on permit application from State Coastal Zone Management	Potentially	Needs More Information
	35	Field Office Renovations for Bayou Blue, Chackbay, Thibodaux, Raceland, Lockport, Galliano	Potentially	Needs More Information
	36	Saltwater Structure near Larose Intracoastal Canal	No	New construction is not eligible for HMGP funding
Pump Station Inventory				
H	1	Lefort - upgrade pump to 30"	Potentially	Pump station upgrades are eligible for HMGP funding
	2	Pointe Aux Chene - pump upgrade to 24" and redo building	Potentially	Pump station upgrades are eligible for HMGP funding
	3	Timberland - pump upgrade to 24" and redo building	Potentially	Pump station upgrades are eligible for HMGP funding
	4	Percy Guidry	Potentially	Needs More Information
	5	Point Au Saucisse	Potentially	Needs More Information
	6	Yankee Canal - rebuild trash racks	Potentially	Upgrading of trash racks is eligible for HMGP funding
	7	Serigney - Relocate to another area	Potentially	Needs More Information
	8	Humble - Replace all pumps	Potentially	Pump station upgrades are eligible for HMGP funding
	9	Ludevine - Replace all pumps	Potentially	Pump station upgrades are eligible for HMGP funding
	10	Old Valentine - Replace trash racks	Potentially	Upgrading of trash racks is eligible for HMGP funding
	11	New Valentine - Replace all pumps	Potentially	Needs More Information
	12	T-Bois - Add a 48" pump and replace rakes	Potentially	Pump station upgrades are eligible for HMGP funding
	13	Nora - Replace all pumps	Potentially	Needs More Information
	14	Clothilda - Replace belt drive with gear drive	Potentially	Needs More Information
	15	Mc Cloud - Replace rakes and discharge pipe	Potentially	Upgrading of trash racks is eligible for HMGP funding
	16	Rita - Replace rakes and building	Potentially	Upgrading of trash racks is eligible for HMGP funding
	17	Fantastic - Replace rakes and rebuild	Potentially	Upgrading of trash racks is eligible for HMGP funding
	18	Edgar Guidry - Replace rakes	Potentially	Upgrading of trash racks is eligible for HMGP funding
	19	Edna - Relocate entire pump station	Potentially	Needs More Information
	20	Parr - Relocate entire pump station in conjunction with NLLD	Potentially	Needs More Information
	21	Barrios - Totally rebuild	Potentially	Needs More Information
	22	Al Robichaux - Extend rakes	Potentially	Upgrading of trash racks is eligible for HMGP funding
	23	Larose - refurbish building and replace rakes	Potentially	Needs More Information
	24	Home Place - rebuild totally	Potentially	Needs More Information
	25	Jess Dufrene - rebuild totally	Potentially	Needs More Information
	26	Eunice Allemand - rebuild totally and replace rakes	Potentially	Upgrading of trash racks is eligible for HMGP funding
	27	Natural Gas - rebuild totally	Potentially	Needs More Information
	28	Raven Wood - rebuild	Potentially	Needs More Information
	29	Butchill - replace bridge crossing over discharge pipe & pipe supports	No	Bridge repairs are not eligible for HMGP funding
	30	Alidore - replace all	Potentially	Needs More Information
	31	Four Point - culverts	Potentially	Needs More Information
	32	District #1 of 12 - replace all and add a 48" pump	Potentially	Needs More Information
	33	District #2 of 12 - replace all	Potentially	Needs More Information
	34	Little Al - rakes	Potentially	Upgrading of trash racks is eligible for HMGP funding
	35	Thoroughbred/Supercharge	Potentially	Needs More Information
	36	Morvant - replace all	Potentially	Needs More Information
	37	West Camelia - replace all, \$25,000 budget in 2008	Potentially	Needs More Information
	38	Emerald Park - replace all	Potentially	Needs More Information

2008 DR 1603 LOI				
I	1	Industrial Park Floodwall Project	Yes	Application in Progress
	2	Parishwide Pump Station Improvements/Upgrades	Yes	Application in Progress
	3	Leighton Pump Station Project	Yes	Application in Progress
	4	Jessie Dufrene Pump Station Project	Yes	Application in Progress
	5	Morvant Pump Station Project	Yes	Application in Progress
	6	Emerald Park Pump Station Project	Yes	Application in Progress
	7	Point Aux Chene Pump Station Project	Yes	Application in Progress
	8	Timberland Pump Station Project	Yes	Application in Progress
	9	Public Facilities -- 24 Structures	Yes	Application in Progress
	10	Raceland/EOC Project	Yes	Application in Progress
	11	Golden Meadow Floodwall Improvements Project	Yes	Application in Progress
	12	Golden Meadow Floodproofing Projects	Yes	Application in Progress
	13	City of Thibodaux Notre Dame Drainage Improvement Project	Yes	Application in Progress
	14	Greater Lafourche Port Commission Breakwater Project	Yes	Application in Progress
	15	North Lafourche Levee District Comprehensive Drainage and Flood Protection Project	Yes	Application in Progress
	16	Elevate LA 1 from Leeville northward for 8.3 miles (DOTD)	Yes	Application in Progress
New Projects				
J	1	Shoreline Protection -- Port Fourchon (11/13/07 Meeting) -- Sea Wall protection for beach head and breakwaters toward the Bay Champagne Area	No	Breakwaters are not eligible for HMGP funding, cost prohibitive
	2	Manchester Manor Drainage (11/13/07 Meeting)	Potentially	Needs More Information
	3	North Intracoastal Drainage (11/13/07 Meeting)	Potentially	Needs More Information
	4	Twin Oaks (front side) Drainage (11/13/07 Meeting)	Potentially	Needs More Information
	5	Industrial Park Bulkhead (seawall -- 11/13/07 Meeting)	Potentially	Needs More Information
	6	Bayou Des Allemands Bulkhead -- present seawall/bulkheading bubbles underneath (11/13/07 Meeting)	Potentially	Needs More Information
	7	Bayou Blue Levee Project and Pump Station (11/13/07 Meeting)	Potentially	Needs More Information
	8	West 140th Drainage Project (11/13/07 Meeting)	Potentially	Needs More Information
	9	W. Camellia Pump Station -- Increase Capacity (11/13/07 Meeting)	Potentially	Needs More Information
	10	Sugaridge Pump Station (11/13/07 Meeting)	Potentially	Needs More Information
	11	Major Culverts/Canals in southern end of parish -- upgrade culverts (11/13/07 Meeting)	Potentially	Needs More Information
	12	Pump Station in Raceland near Hwy 182/Hwy 90 intersection (11/13/07 Meeting)	Potentially	Needs More Information
	13	Emerald Park (11/13/07 Meeting)	Potentially	Needs More Information
	14	EOC/911/Sleeping Quarters -- New or Hardening (11/13/07 Meeting)	Potentially	Needs More Information
	15	East 1st, East 2nd, East 3rd Culvert Upgrade	Potentially	Needs More Information
	16	Hamilton to Intracoastal (11/26/07 Meeting)	Potentially	Needs More Information
	17	LeBlanc Drive Drainage Improvements (Phase I -- Upgrade Culverts) Awarded Grant	Potentially	Needs More Information
	18	LeBlanc Drive Drainage Improvements (Phase II -- Upgrade Culverts)	Potentially	Needs More Information
	19	Flood Protection -- Repair Fourchon Beach	No	Repairs are not eligible for HMGP funding, cost prohibitive
	20	Flood Protection -- Breakwaters outside Bay Champagne	No	Breakwaters are not eligible for HMGP funding, cost prohibitive
	21	Relocation -- Larose Pump Station Road	Potentially	Relocation is potentially eligible for HMGP funding
	22	Wind Hardening and Safe Room -- Parish Council Building	Potentially	Wind Hardening and safe rooms are eligible for HMGP funding
	23	Phase II of LA 1 -- Road Replacement -- Golden Meadow to Leeville	Potentially	State priority
	24	Wind Hardening -- All Parish Pump Stations	Potentially	Wind Hardening is eligible for HMGP funding
	25	Interoperability -- 700mhz radios	No	Radios are not eligible for HMGP funding
	26	Timeline for Hotwash after storm event -- 60 days	No	
	27	Safe Houses -- All EMS, Fire, Police North of Hwy 90	Potentially	Safe Houses are Eligible for HMGP funding
	28	EOC -- New	No	New construction is not eligible for HMGP funding
	29	Elevation of LA 1 from Port Fourchon to Jefferson Parish Line -- Armor Sides and Elevate to ±5'	Potentially	State priority
	30	Mitigation of Repetitive Losses	Potentially	RL Mitigation is eligible for HMGP funding
	31	Upgrade Power infrastructure, state inspections	No	Upgrading of power infrastructure is not eligible for HMGP funding
	32	Wind Hardening -- AYO Center	Potentially	Wind Hardening is eligible for HMGP funding
	33	Mobile Hospital Unit	No	Purchasing of Equipment is not eligible for HMGP funding
	34	Wind Hardening -- Lady of the Sea Hospital	Potentially	Wind Hardening is eligible for HMGP funding
	35			
	36			
	37			
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	39			
	40			

Not Eligible for HMGP funding
 Potentially Eligible for HMGP funding
 Needs More Information
 Application in Progress

V. §201.6 (c)(3) HAZARD MITIGATION STRATEGIES

V. §201.6 (c)(3) HAZARD MITIGATION STRATEGIES

§201.6 (c)(3)A *mitigation strategy* that provides the jurisdiction’s blueprint for reducing the potential losses identified in the risk assessment, based on existing authorities, policies, programs and resources, and its ability to expand on and improve these existing tools. This section shall include the following:

Information presented below provides documentation in conformance with sections (c)(3)(i, ii, iii, and iv) relative to mitigation strategies evaluated for hazards identified in Lafourche Parish, Louisiana.

A. §201.6 (c)(3)(i) A description of mitigation goals to reduce or avoid long-term vulnerabilities to the identified hazards.

The Lafourche Parish Hazard Mitigation Plan Update Committee reviewed and analyzed the risk assessment evaluation performed for the parish as well as goals reflective of that risk assessment. Goals and action items were determined to be those that would have the greatest benefit in reducing or eliminating hazard damage to the parish. The evaluation criteria used in determining these goals and action items are as follows:

- **Social**—Is the mitigation strategy socially acceptable?
- **Technical**—Is the proposed action technically feasible and cost effective? Does it provide the appropriate level of protection?
- **Administrative**—Does the parish have the capability to implement the action? Is the lead agency capable of carrying out oversight of the project?
- **Political**—Is the mitigation action politically acceptable?
- **Legal**—Does the parish have the authority to implement the proposed measure?
- **Economic**—Does the economic base, protected growth and opportunity costs justify the mitigation project?
- **Environmental**—Does the proposed action meet statutory considerations and public desire for sustainable and environmentally healthy communities?

After vigorous review of each goal from the original HMP (2006), the committee established a consensus on the validity of the goals by the second meeting; therefore, the goals remained unchanged. The goals to reduce or avoid long-term vulnerabilities to the identified hazards are listed below:

Goal 1:

Identify and pursue preventive measures that will reduce future damages from hazards

Goal 2:

Enhance public awareness and understanding of disaster preparedness

Goal 3:

Reduce repetitive flood losses in the parish

Goal 4:

Facilitate sound development in the parish to reduce or eliminate the potential impact of hazards

B. §201.6 (c)(3)(ii) The mitigation strategy shall include a section that identifies and analyzes a comprehensive range of specific mitigation actions and projects being considered to reduce the effects of each hazard, with particular emphasis on new and existing buildings and infrastructure.

The Lafourche Parish Hazard Mitigation Plan Update Committee identified several projects that would reduce and/or prevent future damage. In that effort, the group focused on a comprehensive range of specific mitigation actions and projects. These actions and projects were identified in thorough fashion by the consultant team, the steering committee, and committee by way of frequent and open communications and meetings held throughout the planning process.

Action items relative to each goal below were filtered to only include those that were eligible under FEMA’s Hazard Mitigation Grant Program and those of the highest local priority. Additional, non-eligible mitigation projects and those from the original hazard mitigation plan (2006) can be found in Attachment c3-1. The established and agreed upon objectives and actions relative to the established goals are as follows:

- **Goal 1: Identify and pursue preventative measures that will reduce future damages from hazards**
 - **Objective 1.1:** Improve existing drainage infrastructure to protect current structures and future construction from localized flood events
 - Action 1.1.1:** Widen drainage ditches and upgrade culverts to protect current structures and future construction from flood events
 - Timeframe: 1-5 years, as funding permits
 - Funding: HMGP, local, and regional

- Staff: Existing designated full-time personnel in public works and municipalities
- Staff: Existing designated full-time personnel in public works and municipalities
 - Action 1.1.2:** Upgrade pump station capacity
 - Timeframe: 1-5 years, as funding permits
 - Funding: HMGP, local, and regional
 - Staff: Existing designated full-time personnel in public works
 - Action 1.1.3:** Ensure pump stations have adequate trash racks to ensure operation during a flood event
 - Timeframe: 1-5 years, as funding permits
 - Funding: HMGP, local, and regional
 - Staff: Existing designated full-time personnel in public works
- **Objective 1.2:** Elevate existing infrastructure to protect from flood damage
 - Action 1.2.1:** Elevate roads with flood history
 - Timeframe: 1-5 years, as funding permits
 - Funding: HMGP, local, and regional
 - Staff: Existing municipal and parish administration
 - Action 1.2.2:** Elevate levee and floodwall heights to further protect current structures and future construction from storm surge
 - Timeframe: 1-10 years, as funding permits
 - Funding: local, federal, and regional
 - Staff: Existing levee district, parish, and municipal administration
- **Objective 1.3:** Create new infrastructure to protect current structures and future construction from flood damage
 - Action 1.3.1:** Provide additional pump station protection inside levee systems
 - Timeframe: 1-10 years, as funding permits
 - Funding: Local, regional, and federal
 - Staff: Existing municipal and parish administration
 - Action 1.3.2:** Install generators at all critical facilities
 - Timeframe: 1-5 years, as funding permits
 - Funding: HMGP, local, and regional
 - Staff: Existing parish administration and municipal personnel
- **Objective 1.4:** Protect parish and municipal infrastructure from hurricane/coastal/tropical storm events
 - Action 1.4.1:** Construct Safe Rooms
 - Timeframe: 1-5 years, as funding permits
 - Funding: HMGP

- Staff: Parish and municipal administrative staff
 - Action 1.4.2:** Wind harden critical facilities
 - Timeframe: 1-5 years, as funding permits
 - Funding: HMGP
 - Staff: parish and municipal administrative staff
 - Action 1.4.3:** Wind Retrofit Critical Facilities, Public Buildings, or Private Buildings using window film, screen, or shutters
 - Timeframe: 1-5 years, as funding permits
 - Funding: HMGP
 - Staff: parish and municipal administrative staff
- **Objective 1.5:** Continue to seek CWPPRA, other federal, and state funds for coastal erosion mitigation
- Action 1.5.1:** Maintain close liaison with the various programs and persons assigned to those programs at the various levels of government
- Timeframe: Ongoing
 - Funding: No additional funds required
 - Staff: Parish engineering, public works, administrative, planning, and zoning staff, and city administrative and/or planning personnel
- Action 1.5.2:** Report updated findings
- Timeframe: Ongoing
 - Funding: No additional funds required
 - Staff: Parish engineering, public works, administrative, planning, and zoning staff, and city administrative and/or planning personnel with media representatives
- **Objective 1.6:** Continue coastal protection and water intake projects to help reduce coastal erosion and reduce the effects of saltwater intrusion
- Action 1.6.1:** Create additional marshland to both reduce coastal erosion and prevent saltwater intrusion
- Timeframe: Ongoing
 - Funding: CPRA
 - Staff: Parish engineering, public works, administrative, planning, and zoning staff, and city administrative and/or planning personnel
- Action 1.6.2:** Increase sediment diversion to both reduce coastal erosion and prevent saltwater intrusion
- Timeframe: Ongoing
 - Funding: CPRA
 - Staff: Parish engineering, public works, administrative, planning, and zoning staff, and city administrative and/or planning personnel

Action 1.6.3: Locate and construct additional potable water intakes further north in the parish to provide drinking water during a saltwater intrusion event.

- Timeframe: Ongoing
- Funding: Local
- Staff: Water Districts

○ **Objective 1.7:** Reduce the effects of Land Subsidence

Action 1.7.1: Pursue coastal protection projects to reduce land subsidence in coastal areas

- Timeframe: Ongoing
- Funding: Local
- Staff: Existing parish administration

Action 1.7.2: Ensure accurate survey points are located throughout the parish to monitor continued subsidence

- Timeframe: Ongoing
- Funding: local, federal
- Staff: Existing parish administration

Action 1.7.3: Monitor agricultural activities and encourage smart farming practices to reduce soil compaction and acceleration of subsidence

- Timeframe: As needed
- Funding: local, federal
- Staff: Existing parish administration

▪ **Goal 2: Enhance public awareness and understanding of disaster preparedness**

○ **Objective 2.1:** Provide public education for all hazards

Action 2.1.1: Notify the media of hazard mitigation measures and plans

- Timeframe: Ongoing
- Funding: No additional funds required
- Staff: Parish administrative and planning and zoning staff, and city administrative and/or planning personnel with media representatives

Action 2.1.2: Provide educational brochures to libraries, schools, and other public facilities including mitigation measures for all hazards including hurricanes, tornados, coastal/tropical storms, levee failure, coastal erosion, land subsidence, and saltwater intrusion

- Timeframe: Ongoing
- Funding: No additional funds required
- Staff: Parish administrative and planning and zoning staff, and city administrative and/or planning personnel.

Action 2.1.3: Acquire all-hazard warning system to ensure proper citizen notification of tornadoes, levee failure, hurricanes, and coastal/tropical storms

- Timeframe: 1-5 years, as funding permits
- Funding: HMGP, local, and regional
- Staff: Existing designated full-time personnel in Parish Administration

▪ **Goal 3: Reduce repetitive flood damage in Lafourche Parish**

- **Objective 3.1:** Mitigate all repetitive losses in Lafourche Parish

Action 3.1.1: Elevate, acquire, or pilot reconstruct all RL and SRL structures in Lafourche Parish

- Timeframe: 1-5 years, as funding permits
- Funding: HMGP
- Staff: Existing municipal and parish administration

▪ **Goal 4: Facilitate sound development in the parish to reduce or eliminate potential impacts of hazards.**

- **Objective 4.1:** Promote and permit commercial and industrial development, including public critical facilities, outside of hazard areas to limit business interruption, property damage, and impairment to critical facilities in strict accordance with the parish zoning, flood management, and other applicable state and federal regulations.

Action 4.1.1: Ensure that future development does not increase hazard losses

- Timeframe: Ongoing
- Funding: No additional funds required
- Staff: One full-time member of each municipality and the parish planning department

Action 4.1.2: Guide future development away from hazard areas while maintaining other parish goals such as economic development and improving the quality of life

- Timeframe: Ongoing
- Funding: No additional funds required
- Staff: One full-time member of the parish planning department and each municipality

Action 4.1.3: Enforce the International Building Code requirements for all new construction to strengthen buildings against high wind damage

- Timeframe: Ongoing
- Funding: Not additional funds required
- Staff: One current full-time member of the parish districts and each municipality

Action 4.1.4: Provide safe locations for files, records, and computer equipment

- Timeframe: Ongoing
- Funding: HMGP/FMA
- Staff: One current full-time member of the parish, the drainage districts, and each municipality

- **Objective 4.2:** Promote preservation and/or conservation of flood prone areas for parish parks, recreation areas, and general flood plain management

Action 4.2.1: Participate in existing programs at the state and federal levels oriented to environmental enhancement and conservation

- Timeframe: Ongoing
- Funding: local, regional, and federal
- Staff: One current full-time member of the parish

- **Objective 4.3:** Maintain dialogue with state and federal authorities

Action 4.3.1: Keep contact and mailing lists current

- Timeframe: Ongoing
- Funding: No additional funds required
- Staff: Parish administrative and planning and zoning staff, drainage district personnel, and city administrative and/or planning personnel with media representatives

Action 4.3.2: Attend meetings at the state and federal levels

- Timeframe: Ongoing
- Funding: No additional funds required
- Staff: Parish administrative and planning and zoning staff, and city administrative and/or planning personnel

- **Objective 4.4:** Report condition updates to pertinent state and federal authorities.

Action 4.4.1: Ensure that staff and general public are aware of the problem and the need to keep parish authorities updated

- Timeframe: Ongoing
- Funding: No additional funds required
- Staff: Parish engineering, public works, administrative, planning, and zoning staff, drainage district personnel, and city administrative and/or planning personnel with media representatives

Action 4.4.2: Report updated findings

- Timeframe: Ongoing
- Funding: No additional funds required

- Staff: Parish engineering, public works, administrative, planning, and zoning staff; drainage district personnel, and city administrative and/or planning personnel with media representatives
- **Objective 4.5:** Encourage all political jurisdictions in the parish to join the FEMA Community Rating System Program
 - Action 4.5.1:** Add new Regulations reducing development density in flood plains.
 - Timeframe: Ongoing
 - Funding: No additional funds required
 - Staff: Parish administrative and planning and zoning staff, drainage district personnel, and city administrative and/or planning personnel
 - Action 4.5.2:** Each political subdivision to join the CRS
 - Timeframe: Ongoing
 - Funding: No additional funds required
 - Staff: Parish administrative and planning and zoning staff, drainage district personnel, and city administrative and/or planning personnel.
 - Action 4.5.3:** All jurisdictions continue to participate in the NFIP—Lafourche Parish, Thibodaux, Lockport, and Golden Meadow
 - Timeframe: Ongoing
 - Funding: No additional funds required
 - Staff: Municipal and Parish administrative staff
 - Action 4.5.4:** Establish a public outreach campaign to ensure all homeowners in floodplains are aware of the various types of coverage options under the NFIP
 - Timeframe: Ongoing
 - Funding: No additional funds required
 - Staff: Municipal and Parish administrative staff
 - Action 4.5.5:** Establish homeowner education program on flood mitigation measures
 - Timeframe: Ongoing
 - Funding: No additional funds required
 - Staff: Municipal and Parish administrative staff
- **Objective 4.6:** Keep flood plain management in the consciousness of the general citizenry particularly regarding hazardous areas and measures to avoid potential damage and injury
 - Action 4.6.1:** Notify the media of hazard mitigation measures and plans
 - Timeframe: Ongoing
 - Funding: No additional funds required

- Staff: Parish administrative and planning and zoning staff, drainage district personnel, and city administrative and/or planning personnel with media representatives

Action 4.6.2: Make presentations to civic organizations

- Timeframe: Ongoing
- Funding: No additional funds required
- Staff: Parish administrative and planning and zoning staff, drainage district personnel, and city administrative and/or planning personnel.

The status of action items from the original HMP (2006) are listed in the table to follow and are also included in Attachment c3-1. No action items from the original HMP were deleted.

Actions from 2006 HMP	Completed	Ongoing	Carried Over	Projects Ranked	Projects Scoped	HMGP Ineligible
Identify improved local evacuation routes that do not flood.		X				X
Evaluate where erosion control projects are needed.		X				X
Maintain and inspect all parish levees by keeping the grass cut, performing regular maintenance, and checking the integrity of the levees. Maintain and inspect drainage ways by removing any obstructions, keep the grass cut, trap or kill nutria, and replace inferior culverts parish-wide.		X				X
Enhance the mosquito abatement program by setting traps throughout the parish and testing dead birds for the West Nile Virus.		X				X
Construct more directional barriers (locks and floodgates).		X	X			X
Implement a public notification system (sirens, call dow system).			X			
Add back up power supply/generators at Lafourche Parish Sheriff's Office, the water plants, and the communications infrastructure.			X			
Promote the purchase of flood insurance. Advertise the availability, cost, and coverage of flood insurance through the National Flood Insurance Program (NFIP).		X				X
Initiate public education about termites, by disseminating brochures alerting the public on techniques to prevent termites, and how to respond when termites are located in their structure.		X				X
Increase public awareness of hazards and hazardous areas. Distribute public awareness information regarding flood hazards, SFHAs, and potential mitigation measures using the local newspaper, utility bill inserts, inserts in the phone book, a parish hazard awareness website, and an educational program for school age children or "how to" classes in retrofitting by local merchants. Integrate "Disaster Resistance Education" into the public school curriculum. Provide public education on West Nile Virus, alerting residents to the facts about West Nile and how to protect themselves. Provide public education on the importance of maintaining the ditches.		X	X			

Actions from 2006 HMP	Completed	Ongoing	Carried Over	Projects Ranked	Projects Scoped	HMGP Ineligible
Sponsor a Multi-Hazard Awareness Week", to educate the public on winter storms (fire safety and emergency preparedness), hurricane and tomadoes (sheltering in place evacuation, emergency preparedness, and structural retrofitting), flooding (evacuation, emergency preparedness, retrofitting, and flood insurance), Hazmat incidents (sheltering in place and evacuation), hailstorms(sheltering your car during hailstorms), wildfires (fire safety and evacuation), drought (water conservation), thunderstorms and lightning (emergency preparedness), and terrorism (sheltering in place and evacuation).		X	X			
Continue elevation/acquisition/floodproofing projects and structural solutions to flooding by pursuing funding opportunities for the 173 repetitive loss structures in the parish. Annually review and correct the Repetitive Loss List by submitting correction sheets to FEMA.	X	X	X			
Develop a comprehensive drainage plan that will provide future protection for areas in the parish that experience flooding and drainage problems.		X				X
Investigate and implement a localized interior drainage project in each repetitive loss area to reduce its flood potential (e.g. Highway 308 and Leeville Bridge on Highway 1).		X	X			
Seek funding for additional Hurricane Protection Levee for southern areas of parish.		X				X
Support rebuilding of barrier islands and beach stabilization projects. Support continued development of Regional Morganza to the Gulf Levee System.		X				X
Investigate ways to improve the parish's rating in the Community Rating System (CRS), such as reviewing the existing floodplain ordinance and augmenting it to increase CRS potential to further reduce the flood insurance premiums.		X				X
Adopt the International Building Codes by ordinance.		X				X
Implement the Debris Removal Plan which outlines pre-approved storage and removal guidelines. Investigate funding for additional equipment needed for cleanup after a disaster.		X				X

Actions from 2006 HMP	Completed	Ongoing	Carried Over	Projects Ranked	Projects Scoped	HMGP Ineligible
Develop additional subdivision guidelines that would help reduce flooding, such as requiring proper drainage with adequate sloping; stormwater retention ponds; dikes; levees and floodwalls if appropriate, and requiring freeboard above the Base Flood Elevation (BFE) in flood prone areas. Encourage new subdivision developments to install underground utilities, which would help reduce the chances of power outages.		X				

C. §201.6 (c)(3)(iii) ...shall include an action plan describing how the actions identified in section (c)(3)(ii) will be prioritized, implemented, and administered by the local jurisdiction. Prioritization shall include a special emphasis on the extent to which benefits are maximized according to a cost benefit review of the proposed projects and their associated costs.

The Hazard Mitigation Committee has identified several hazard mitigation projects to be included in the parish Hazard Mitigation Plan. The actions presented on the previous pages were categorized to organize priorities by HMGP grant eligibility. Projects not deemed eligible and/or covered in other programs can be located in Attachment c3-1. Potential projects identified included properties and areas that have localized flooding or drainage problems as noted in the Lafourche Parish Hazard Mitigation Plan (2005). Projects carried over from the HMP (2006) can also be found in Attachment 3-1. Most of the projects from the original plan were not eligible for HMGP funding, but those that were carried forward to project prioritization. The project list reviewed for prioritization also included consideration of repetitive loss (RL) and severe repetitive loss (SRL) properties in the incorporated and unincorporated areas of the parish.

Prioritization

The parish's mitigation consultants, The Shaw Group, assisted the HMPU Committee in reviewing and evaluating the potential project list. Consideration was given to a variety of factors including a project's eligibility for federal mitigation grants and its ability to be funded. This process required evaluation of each project's engineering feasibility, cost effectiveness, and environmental and cultural factors.

The STAPLEE method was recommended by GOHSEP and was incorporated by the HMPU Committee to evaluate and eventually prioritize the projects contained in this Work Plan. The Committee reviewed each project's eligibility with each of the following STAPLEE criteria: Social, Technological, Administrative, Political, Legal, Economic and Environmental. Prior to ranking each project, Shaw led the Steering Committee in a detailed review of the STAPLEE criteria and ranking factors to ensure consistent understanding and fair use of the evaluation standards by Committee members. STAPLEE criteria were used to evaluate projects by ensuring each project conformed to each criteria. For numerous reasons, the STAPLEE ranking criteria did not effectively

prioritize the Lafourche Parish Project list. The STAPLEE criteria were used to eliminate projects that were not feasible. The projects with the highest local priority were then selected for scoping.

Implementation and Administration

The projects selected for scoping and of the highest local priority are as follows:

- Drainage Improvement – Town of Lockport
- Flood Protection – Golden Meadow Flood Wall Improvements
- Flood Protection – Upgrade and Relocate Edna Pump Station
- Flood Protection – Upgrade Barrios Pump Station
- Flood Protection – Upgrade District 1 of 12 Pump Station
- Flood Protection – Upgrade District 2 of 12 Pump Station

The project scoping summary reports have been prepared (as presented in separate deliverable) to serve as supporting information to assist Lafourche Parish with future HMGP applications. The scoping process involved completing the following tasks for each aforementioned project:

- Project Scoping Summary Report
- Project Location Diagrams
- Feasibility Analysis
- Preliminary Design and Engineering
- Cost Estimate and Project Schedule
- Environmental/Cultural Resource Consideration
- Benefit-Cost Analysis

A summary of each scoped project can be found below.

Drainage Improvement – Town of Lockport

Catherine Street Ditch, Elizabeth Street Ditches, Ethel Street Ditches, School Street Ditches, and the Main Outfall Canal each are 700 ft. in length. The Comeaux/Catherine Ditch is 225 ft. in length from Walnut to Crescent. The drainage ditches do not adequately convey stormwater causing repetitive flood damages to the low lying residential areas in the southwest section of the community.

The proposed project includes the installation of drain pipes in the ditches to improve the conveyance of stormwater.

The most cost effective solution to solving the drainage problems in this area is to upgrade the existing ditches by enclosing them and adding sufficient drain pipes that will connect to the existing subsurface drainage system. This will involve widening the existing ditch to allow for the placement of the proposed drainage pipes and catch basins

as well as backfilling the soil and regrading the surface to help capture the stormwater runoff. There are also several existing driveways and roadways that will need to be removed and then replaced to allow for the placement of the drainage pipes.

A set of construction documents and specifications will be prepared based on the results from the drainage study and survey. The project will then be constructed according to the plans and specifications. Upon completion of the project, a final inspection will be ordered to ensure that the project has been constructed according to the plans and specifications.

Flood Protection – Golden Meadow Flood Wall Improvements

Golden Meadow lacks a flood wall sufficient enough to protect from flooding and coastal erosion associated with Bayou Lafourche. The town floods frequently and coastal erosion is causing Hwy 1 to sheer away.

The Golden Meadow Flood Wall Improvement Project consists of 1,500 ft. of flood wall that will protect Golden Meadow from flooding and coastal erosion associated with Bayou Lafourche.

The most cost effective solution to solving the flooding problems in this area is to upgrade the bulkhead which will help to alleviate backwater flooding and tidal surge associated with Bayou Lafourche.

The construction process first involves the removal of the existing bulkhead in the areas identified on the plan. Next, a vinyl corrugated sheet piling will be driven into the undisturbed soil to the correct proposed depth. Wood pilings will be placed in front of the vinyl sheet piles at equal spacing for additional support and bracing. These pilings will also be driven into a required depth into undisturbed soil. There will be a galvanized bolt connection between the vinyl sheet piling and the wood pilings. Also, both pilings will be capped for added protection. The final step will be to backfill the area between the concrete flood wall and the newly formed bulkhead with lightweight aggregate.

Upon completion of the project, a final inspection will be ordered to ensure that the project has been constructed according to the plans and specifications.

Flood Protection – Upgrade and Relocate Edna Pump Station

The existing pump station contains one 30” pump and one 36” pump. The pumps are undersized to effectively drain the area which subsequently floods three times a year.

The proposed project includes relocating Edna Pump Station 1,250 ft. west of its current location to eliminate subsidence and also to upgrade both pumps to 48”.

The most cost effective solution to help alleviate flooding in this area is to upgrade the pumps at the Edna Pump Station from the existing 30” and 36” pumps to (2)

48” pumps. This will increase the pumping capacity from 170 cfs to 225 cfs. Also, the pump will need to be relocated 1,250 ft. west of its current location to help eliminate subsidence. The pumps will need to be placed at the same elevation as the existing pumps.

The process involved in relocating the pumps will be to widen the existing outfall canal to improve the capacity of stormwater runoff that can be managed as well as to construct a new pump station which will allow for the pumps to be placed at the correct elevation. The construction process also involves the removal of the existing 30” and 36” pumps and the replacement with the new 48” pumps. The items to be upgraded will be the engines, pumps, gears and standard controls.

To determine the correct size and capacity of the pumps, a drainage study and survey will need to be conducted. After the survey and drainage study is complete, a set of construction documents will be prepared based on these findings.

Upon completion of the project, a final inspection will be ordered to ensure that the project has been constructed according to the plans and specifications.

Flood Protection – Upgrade Barrios Pump Station

The existing pump station contains two 36” pumps. The pumps are undersized to effectively drain the area which subsequently floods three times a year. The proposed project includes upgrading the two existing pumps to 48”.

The most cost effective solution to help alleviate flooding in this area is to upgrade the pumps at the Barrios Pump Station from the existing (2) 36” pumps to (2) 48” pumps. This will increase the pumping capacity from 190 cfs to 225 cfs. The pumps will need to be placed at the same elevation as the existing pumps.

The construction process involves the removal of the existing 36” pumps and the replacement with the new 48” pumps. The items to be upgraded will be the engines, pumps, gears and standard controls.

To determine the correct size and capacity of the pumps, a drainage study and survey will need to be conducted. After the survey and drainage study is complete, a set of construction documents will be prepared based on these findings.

Upon completion of the project, a final inspection will be ordered to ensure that the project has been constructed according to the plans and specifications.

Flood Protection – Upgrade District 1 of 12 Pump Station

The existing pump station contains one 24” pump and one 36” pump. The pumps are undersized to effectively drain the area which subsequently floods three times a year. The proposed project includes upgrading the two existing pumps to 48”.

The most cost effective solution to help alleviate flooding in this area is to upgrade the pumps at the District #1 of 12 Pump Station from the existing 24” pump and 36” pump to (2) 48” pumps. This will increase the pumping capacity from 135 cfs to 225 cfs. The pumps will need to be placed at the same elevation as the existing pumps.

The construction process involves the removal of the existing 24” and 36” pumps and the replacement with the new 48” pumps. The items to be upgraded will be the engines, pumps, gears and standard controls.

To determine the correct size and capacity of the pumps, a drainage study and survey will need to be conducted. After the survey and drainage study is complete, a set of construction documents will be prepared based on these findings.

Upon completion of the project, a final inspection will be ordered to ensure that the project has been constructed according to the plans and specifications.

Flood Protection – Upgrade District 2 of 12 Pump Station

The existing pump station contains two pumps at 36”. The pumps are undersized to effectively drain the area which floods approximately three times a year. The proposed project includes upgrading the two existing pumps to 48”.

The most cost effective solution to help alleviate flooding in this area is to upgrade the pumps at the District #2 of 12 Pump Station from the existing (2) 36” pumps to (2) 48” pumps. This will increase the pumping capacity from 190 cfs to 225 cfs. The pumps will need to be placed at the same elevation as the existing pumps.

The construction process involves the removal of the existing 36” pumps and the replacement with the new 48” pumps. The items to be upgraded will be the engines, pumps, gears and standard controls.

To determine the correct size and capacity of the pumps, a drainage study and survey will need to be conducted. After the survey and drainage study is complete, a set of construction documents will be prepared based on these findings.

Upon completion of the project, a final inspection will be ordered to ensure that the project has been constructed according to the plans and specifications.

Each project will be financed by future HMGP funds as grant funding permits. Parish government will be responsible for selecting and pursuing all funding opportunities under HMGP for the aforementioned projects as the authorized agent for the municipalities.

D. §201.6 (c)(3)(iv) For multi-jurisdictional plans, there must be identifiable action items specific to the jurisdiction requesting FEMA approval or credit of the plan.

As referenced in the pages to follow, each municipality (Thibodaux, Lockport and Golden Meadow) has at least one project within the city limits. The list of projects above also includes the unincorporated areas of the parish, thereby covering every government authority (unincorporated and municipal) within the parish boundaries.

Actions	Thibodaux	Lockport	Golden Meadow	Unincorporated	Parishwide
Action 1.1.1: Widen drainage ditches and upgrade culverts	X	X	X	X	X
Action 1.1.2: Upgrade pump station capacity				X	X
Action 1.1.3: Ensure pump stations have adequate trash racks to ensure operation during a flood event				X	X
Action 1.2.1: Elevate roads with flood history				X	X
Action 1.2.2: Elevate levee and floodwall heights to further protect from storm surge			X	X	X
Action 1.3.1: Provide additional pump station protection inside levee systems				X	X
Action 1.3.2: Install generators at all critical facilities	X	X	X	X	X
Action 1.4.1: Construct Safe Rooms				X	X
Action 1.4.2: Wind harden critical facilities	X	X	X	X	X
Action 1.5.1: Maintain close liaison with the various programs and persons assigned to those programs at the various levels of government					X
Action 1.5.2: Report updated findings					X
Action 1.6.1: Continue coastal protection projects to help reduce coastal erosion					X
Action 1.6.2: Increase sediment diversion					X
Action 1.6.3: Locate and construct additional potable water intakes further north in the parish to provide drinking water during a saltwater intrusion event.	X	X	X	X	X
Action 1.7.1: Pursue coastal protection projects to reduce land subsidence in coastal areas			X	X	X
Action 1.7.2: Ensure accurate survey points are located throughout the parish to monitor continued subsidence	X	X	X	X	X

Actions	Thibodaux	Lockport	Golden Meadow	Unincorporated	Parishwide
Action 1.7.3: Monitor agricultural activities and encourage smart farming practices to reduce soil compaction and acceleration of subsidence	X	X	X	X	X
Action 2.1.1: Notify the media of hazard mitigation measures and plans					X
Action 2.1.2: Provide educational brochures to libraries, schools, and other public facilities including mitigation measures for all hazards including hurricanes, tornados, coastal/tropical storms, levee failure, coastal erosion, land subsidence, and saltwater intrusion					X
Action 2.1.3: Acquire all-hazard warning system to ensure proper citizen notification of tornadoes, levee failure, hurricanes, and coastal/tropical storms					X
Action 3.1.1: Elevate, acquire, or pilot reconstruct all RL and SRL structures in Lafourche Parish	X	X	X	X	X
Action 4.1.1: Ensure that future development does not increase hazard losses	X	X	X	X	X
Action 4.1.2: Guide future development away from hazard areas while maintaining other parish goals such as economic development and improving the quality of life	X	X	X	X	X
Action 4.1.3: Enforce the International Building Code requirements for all new construction to strengthen buildings against high wind damage	X	X	X	X	X
Action 4.1.4: Provide safe locations for files, records, and computer equipment	X	X	X	X	X

Actions	Thibodaux	Lockport	Golden Meadow	Unincorporated	Parishwide
Action 4.2.1: Participate in existing programs at the state and federal levels oriented to environmental enhancement and conservation					X
Action 4.3.1: Keep contact and mailing lists current					X
Action 4.3.2: Attend meetings at the state and federal levels					X
Action 4.4.1: Ensure that staff and general public are aware of the problem and the need to keep parish authorities updated	X	X	X		X
Action 4.4.2: Report updated findings					X
Action 4.5.1: Add new regulations reducing development density in flood plains					X
Action 4.5.2: Each political subdivision to join the CRS	X	X	X		X
Action 4.5.3: All jurisdictions continue to participate in the NFIP--Lafourche Parish, Thibodaux, Lockport, and Golden Meadow	X	X	X	X	X
Action 4.5.4: Establish a public outreach campaign to ensure all homeowners in floodplains are aware of the various types of coverage options under the NFIP	X	X	X	X	X
Action 4.5.5: Establish homeowner education program on flood mitigation measures	X	X	X	X	X
Action 4.6.1: Notify the media of hazard mitigation measures and plans					X
Action 4.6.2: Make presentations to civic organizations					X

VI. §201.6 (c)(4) PLAN MAINTENANCE PROCEDURES

VI. §201.6 (c)(4) PLAN MAINTENANCE PROCEDURES

A plan maintenance process that includes:

A. §201.6 (c)(4)(i) A section describing the method and schedule of monitoring, evaluating, and updating the mitigation plan within a five-year cycle.

Lafourche Parish has developed a plan maintenance process to ensure that regular review and update of the Hazard Mitigation Plan occurs. The parish has formed a Hazard Mitigation Plan Evaluation Committee that consists of selected members from municipalities, local agencies, and the Hazard Mitigation Plan Update Committee which prepared the HMPU as included herewith. The HMPU Evaluation Committee will consist of the following representation:

1. Lafourche Parish President
2. Lafourche Parish CAO
3. Lafourche Parish Director of Public Works
4. Lafourche Parish Director of Planning and Zoning
5. Lafourche Parish Director of Economic Development
6. Lafourche Parish Director of OEP and Homeland Security (responsible for overall coordination of HMP maintenance activities)
7. Lafourche Parish Sheriff
8. Mayors of each of the three municipalities or their representative

The OEP director of the parish will be responsible for contacting each of the committee members during January of every year. Members will have a one month period in which to respond to initiate a meeting if any one member feels that issues need to be addressed. However, should a hazard event occur and the need for update analysis surface, a meeting can be called by the OEP director or requested by a committee member.

The OEP director will also be responsible for maintaining plan review comments and will monitor the plan's action items on an ongoing basis using phone calls and emails to contact those responsible to implementing action items and bring the project status reports to the yearly evaluation meetings. Ideas to be discussed will include, but are not limited to, the following:

- Does the committee membership need to be updated?
- Have any new hazard events occurred?
- Has new funding been allotted?
- Have any projects been implemented?
- Have the project priorities changed?
- Are there any new projects to discuss?

In addition to the yearly evaluations, the questions listed above and additional considerations will be made during the formal update process to be completed and

approved by FEMA within a five-year cycle. Updates to the Hazard Mitigation Plan will be made fully utilizing the representation of the HMP committee formed for this purpose. (See §201.6 (c)(4)(i))

B. §201.6 (c)(4)(ii) A process by which local governments incorporate the requirements of the mitigation plan into other planning mechanisms such as comprehensive or capital improvement plans, when appropriate.

Members of local and parish departments who interact on planning issues, such as the Parish President, Parish CAO, Parish Director of Planning and Zoning, Parish Director of Grants and Economic Development, Parish OEP Director, Sheriff, and the mayors of each municipality met to review the relevance of the HMP's risks and vulnerabilities identified, as well as the goals, objectives, and actions for mitigating the risks, and catalogued all said information for use in future updates to the other local planning mechanisms. In addition, at the time such update processes take place, these stakeholders will convene as a committee to review the ongoing relevance of said data and how it can best be utilized in the various planning mechanisms to produce the best possible planning document.

When appropriate, local governments, by way of the individuals who served on the HMPU Committee and the HMP Evaluation Committee, will address the need to incorporate requirements of the mitigation plan into their respective zoning ordinances, comprehensive plans, and/or capital improvement plans if deemed necessary and if not previously included. An effort will be made by all HMPU committee members to ensure consistency in all future planning efforts with the mitigation goals and risk assessment presented in this plan. Consistency between all planning efforts will ensure a decrease in losses related to hazard events within future and existing developments. During the last five year update cycle, the former hazard mitigation plan's (2006) goals were not incorporated into any other planning mechanisms as no formal plans were prepared. However, the goals and hazard mitigation priorities were also discussed frequently in council meetings at the parish and municipal level.

If amendments to existing ordinances or new ordinances are required, each political jurisdiction will be responsible for its respective updates.

C. §201.6 (c)(4)(iii) Discussion on how the community will continue public participation in the plan maintenance process.

Responsibility for continued public participation will be that of the OEP director. Copies of the plan will be kept on file at the parish government office and with each municipality. Contained in the plan and presented in section (c)(4)(i) is a list members of the plan evaluation committee that can be contacted. In addition, copies of the plan and any proposed changes will be posted on the parish government website. This website will also have an e-mail address and phone numbers to which the public can direct their comments or concerns. The local newspaper will also be notified if HMP issues arise.