

**LOUISIANA COASTAL PROTECTION AND RESTORATION
FINAL TECHNICAL REPORT**

EVALUATION RESULTS APPENDIX

June 2009



**U. S. Army Corps of Engineers
New Orleans District
Mississippi Valley Division**

Louisiana Coastal Protection and Restoration (LACPR) Final Technical Report
Evaluation Results Appendix

Purpose

The Louisiana Coastal Protection and Restoration (LACPR) Technical Report has been developed by the United States Army Corps of Engineers (USACE) in response to Public Laws 109-103 and 109-148. Under these laws, Congress and the President directed the Secretary of the Army, acting through the Chief of Engineers, to:

- Conduct a comprehensive hurricane protection analysis and design in close coordination with the State of Louisiana and its appropriate agencies;
- Develop and present a full range of flood control, coastal restoration, and hurricane protection measures exclusive of normal policy considerations for South Louisiana;
- Consider providing protection for a storm surge equivalent to a Category 5 hurricane; and
- Submit preliminary and final technical reports.

The purpose of this appendix is to provide a detailed and uniform presentation of evaluation results for the LACPR alternatives in the form of maps and tables as well as hurricane surge inundation maps by planning unit. The base and future conditions for LACPR are described in the main report. This appendix does not address the potential impacts to the Mississippi coast, which is included in the main report and the *Regional Considerations for LACPR and MsCIP Appendix*.

Water Surface Elevation and Depth Maps

In order to identify the extent of hurricane surge inundation, water surface elevation, water depth, and/or change in depth of flooding maps are included for the 100-year, 400-year, and 1000-year frequency events for the following conditions:

- **Base/Existing Conditions**
- **Future Conditions**
 - No Action/Degraded Coast
 - Maintain Coast
- **Comparison of Base and Future Conditions** (Planning Units 1 and 2 only)
 - Base vs. Future No Action
 - Future No Action vs. Maintain Coast

In Planning Units 1 and 2, a comparison of basic alternative performance (changes in depth of flooding) of primary structural alternatives is also presented through a series of maps (e.g., comparison of weir-barrier plan in Planning Unit 1 to high level plan; comparison of GIWW weir-barrier in Planning Unit 2 to ridge alternative).

In addition to developing the maps described above, the hydraulic analysis plays a key role in the evaluation of the LACPR alternatives. Each levee alternative affects the surge and the waves during a storm in a different way which leads to different residual risk/damages. For details on the methodology and results of the hydraulic analysis refer to Volumes I and II of the Hydraulics and Hydrology Appendix.

Performance Results by Alternative

As described in the main report, each LACPR alternative is evaluated on the basis of informed metrics and risk reduction performance. In order to display these results, the following maps and tables are provided by alternative:

- **Metric/Data Table** – provides a “thumbnail sketch” of each alternative’s performance; includes results for each of the metrics across four future scenarios and as well as other performance data.
- **Alternative Map** – an aerial photograph providing the geographic location of features included in the alternative, e.g. structural levee alignments, coastal restoration diversions, nonstructural velocity zones, etc.
- **Water Surface Elevation Table** – shows the alternative’s performance in reducing water surface elevations for selected planning subunits for the with and without project baseline and future conditions.
- **Planning Subunit Key Map** – corresponds with the water surface elevation table described above; also shows levee design heights for structural measures.

The appendix is organized so that when printed double-sided the metric/data table for a particular alternative can be viewed at the same time as the map of that alternative and the water surface evaluation table can be viewed at the same time as the planning subunit key map (when applicable).

Metric/Data Tables and Alternative Maps

Each **metric/data table** is organized in four sections as follows (from top to bottom): alternative description, results by scenario with uncertainty bands, other results, and residual risk/damages by frequency.

General Alternative Information

The top section provides the following general information about the alternative:

- Planning Unit
- Alternative Number, e.g. PU1-NS-100
- Category, e.g. coastal restoration + nonstructural measures
- Alternative Description
- Coastal Component, e.g. R2
- Nonstructural Component, e.g. 1000-year stand alone measures
- Structural Component, e.g. No new levees or increases in risk reduction for existing levees.

Results by Scenario with Uncertainty Bands

The section below the general alternative information provides the results by scenario with uncertainty bands for seven of the LACPR metrics:

- Life Cycle Cost
- Population Impacted
- Residual Damages

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- Employment Impacted
- Archeological Sites Protected
- Historic Properties Protected
- Historic Districts Protected

Additional data is provided on impacts to the regional economy, i.e. gross regional output and earned income impacted.

The four scenarios represent two conditions of relative sea level rise (low and high) and two conditions of population growth (high employment/dispersed population growth and business-as-usual employment/compact population growth). Additional information on the four scenarios can be found in the main report.

The three levels of uncertainty—high, mid, low—represent relative high uncertainty, moderate uncertainty, and low uncertainty. For the economic metrics, these uncertainty levels correspond to the 10%, 50%, and 90% water levels. For example, the 90% water levels should only be exceeded in 10% of the cases, which indicates a low uncertainty (or high confidence) in the economic metric values. Alternatively, the 10% water levels may be exceeded 90% of the time, which indicates a high uncertainty (or low confidence).

The metric values represent the performance of each alternative over the period of analysis. Development of metric values required a statistical analysis of a range of storm surges to measure relative impacts of alternatives considered. This range of surges was applied equally to each alternative.

Note: Annual equivalent metric values shown for economic and cost metrics presented in this section are calculated for the period from 2010 to 2075 at the common base year 2025 using a 4 7/8% Federal discount rate. All dollar metrics are based on 2007 price levels.

Other Results

In the next section of the table, results are provided for the other three LACPR metrics:

- Construction Time
- Direct Wetland Impacts
- Indirect Environmental Impacts

In addition, information is provided on Federal and non-Federal cost components, spatial integrity (or landscape stability) of coastal restoration plans, and the percentage of wetlands predicted to remain after 50 and 100 years.

The coastal, nonstructural, and structural plan component costs are provided in this section as present values of life cycle costs rather than annual equivalents; the present value costs are calculated over the same period and for the same base year as described in the note above. The non-Federal share of costs is also provided (35% or more of the total cost). The color coding links all costs by scenario (yellow = scenario 1; green = scenario 2; blue = scenario 3; orange = scenario 4).

Residual Risk/Damages by Frequency Event

The bottom section of the table expresses residual risk as residual damages at year 2075 for the storm frequencies addressed in the economic analysis (10-, 100-, 400-, 1000-, and 2000-year). Low uncertainty values are provided for the four scenarios for both no action and with the alternative projects in place.

The square in the bottom right of the table contains a quick reference to the planning unit, type of alternative, and design level (level of risk reduction provided). The corresponding **alternative map** appears on the next page facing the metric/data table.

Planning Subunit Key Map and Water Surface Elevation Table

The **planning subunit key map** provides the location and designators for selected planning subunits within a planning unit for which sample performance data related to change in water surface elevations are provided. The planning subunits shown represent only a small subset of the over 900 planning subunits used in the overall analysis. This map is the key to the subunits listed in the water surface elevation table on the facing page. The planning subunit key map also specifies the levee heights by reach for each of the structural alternatives.

The **water surface elevation table** presents the base and future conditions for the 100-, 400-, and 1000-year frequency events for both with and without the alternative project in place. The two rows at the bottom of the table provide the basic assumptions that relate to the water surface results. These assumptions are the same for every water surface elevation table included in this appendix. The 90% confidence level is a statistically derived probability of the surge elevations. As previously explained, the 90% values denote a high confidence or low uncertainty. A “high” relative sea level rise rate was assumed and used in the calculations. The levee design and overtopping boxes capture the friction conditions used in the surge generating model, i.e. no friction waves.

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	Water Surface Elevations - 1000-year Event - 2060 No Action	10
Future Maintain Coast	Water Surface Elevations -100-year Event-2060 Maintain	11
	Water Surface Elevations -400-year Event-2060 Maintain	12
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PLANNING UNIT 4 Performance Results by Alternative		Page
PU4-0	No Action Alternative (Future Degraded)	Metric/Data Table
		Alternative Map
		Planning Subunit Key Map
		Water Surface Elevation Table
PU4-R1	Coastal Restoration Plan	Metric/Data Table
		Alternative Map
		Planning Subunit Key Map
		Water Surface Elevation Table
PU4-NS-100	Nonstructural Stand Alone Plans (water levels same as base maps)	Metric/Data Table
PU4-NS-400		Alternative Map
PU4-NS-1000		Metric/Data Table
		Alternative Map
		Metric/Data Table
		Alternative Map

Louisiana Coastal Protection and Restoration (LACPR) Final Technical Report
Evaluation Results Appendix

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		Water Surface Elevation Table	35
PU4-G-400-3	GIWW Plan (12-ft Levee)	Metric/Data Table	36
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		Water Surface Elevation Table	43
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**LOUISIANA COASTAL PROTECTION AND RESTORATION FINAL TECHNICAL REPORT
EVALUATION RESULTS APPENDIX**

Planning Unit 1

Louisiana Coastal Protection and Restoration

Planning Unit 1
Pontchartrain Basin

Water Surface Elevations
100-Year Event
2010 Base conditions

May 2008

Planning Unit 1

Legend

-7	3	13	23
-6	4	14	24
-5	5	15	25
-4	6	16	26
-3	7	17	27
-2	8	18	28
-1	9	19	29
0	10	20	30
1	11	21	LACPRA Planning Units
2	12	22	



Miles
4 2 0 4 8 12 16

Louisiana Coastal Protection and Restoration

Planning Unit 1
Pontchartrain Basin

Water Depths
100-Year Event
2010 Base Conditions

May 2008

Planning Unit 1

Legend

0	7	14	21
1	8	15	22
2	9	16	23
3	10	17	24
4	11	18	25
5	12	19	LACP Planning Units
6	13	20	



Miles
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Louisiana Coastal Protection and Restoration

Planning Unit 1
Pontchartrain Basin

Water Surface Elevations
400-Year Event
2010 Base conditions

May 2008

Planning Unit 1

Legend

-7	3	13	23
-6	4	14	24
-5	5	15	25
-4	6	16	26
-3	7	17	27
-2	8	18	28
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1	11	21	LACPRA Planning Units
2	12	22	



Miles
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Louisiana Coastal Protection and Restoration

Planning Unit 1
Pontchartrain Basin

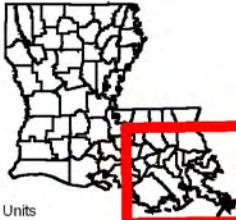
Water Depths
400-Year Event
2010 Base Conditions

May 2008

Planning Unit 1

Legend

0	7	14	21
1	8	15	22
2	9	16	23
3	10	17	24
4	11	18	25
5	12	19	LACP Planning Units
6	13	20	



Miles
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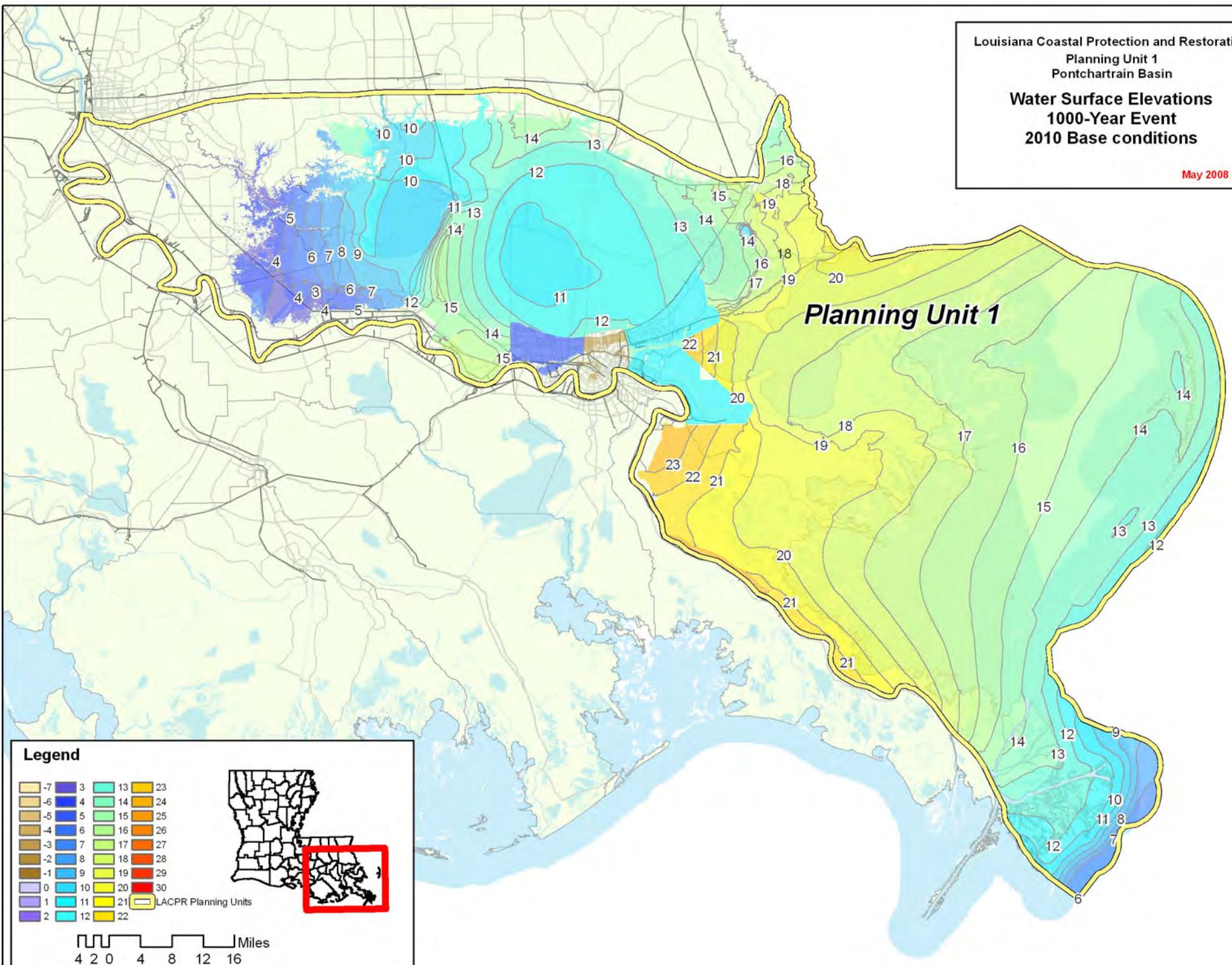
Louisiana Coastal Protection and Restoration

Planning Unit 1
Pontchartrain Basin

Water Surface Elevations
1000-Year Event
2010 Base conditions

May 2008

Planning Unit 1



Louisiana Coastal Protection and Restoration

Planning Unit 1
Pontchartrain Basin

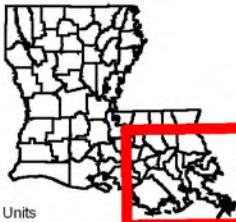
Water Depths
1000-Year Event
2010 Base Conditions

May 2008

Planning Unit 1

Legend

0	7	14	21
1	8	15	22
2	9	16	23
3	10	17	24
4	11	18	25
5	12	19	LACP Planning Units
6	13	20	



Miles
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Louisiana Coastal Protection and Restoration

Planning Unit 1
Pontchartrain Basin

Water Surface Elevations
100-Year Event
2060 No Action

May 2008

Planning Unit 1

Legend

-7	3	13	23
-6	4	14	24
-5	5	15	25
-4	6	16	26
-3	7	17	27
-2	8	18	28
-1	9	19	29
0	10	20	30
1	11	21	LACPR Planning Units
2	12	22	



Miles
4 2 0 4 8 12 16

Note: Future "no-action" frequencies or event surfaces are based on ADCIRC simulated storm surge values for a projected "50-yr" future coast based on no additional coastal restoration. Statistical surfaces shown include the added effects of relative sea level rise, i.e. eustatic plus local subsidence.

Louisiana Coastal Protection and Restoration

Planning Unit 1
Pontchartrain Basin

Water Depths
100-Year Event
2060 No Action

May 2008

Planning Unit 1

Legend

0	7	14	21
1	8	15	22
2	9	16	23
3	10	17	24
4	11	18	25
5	12	19	LACP Planning Units
6	13	20	



Miles
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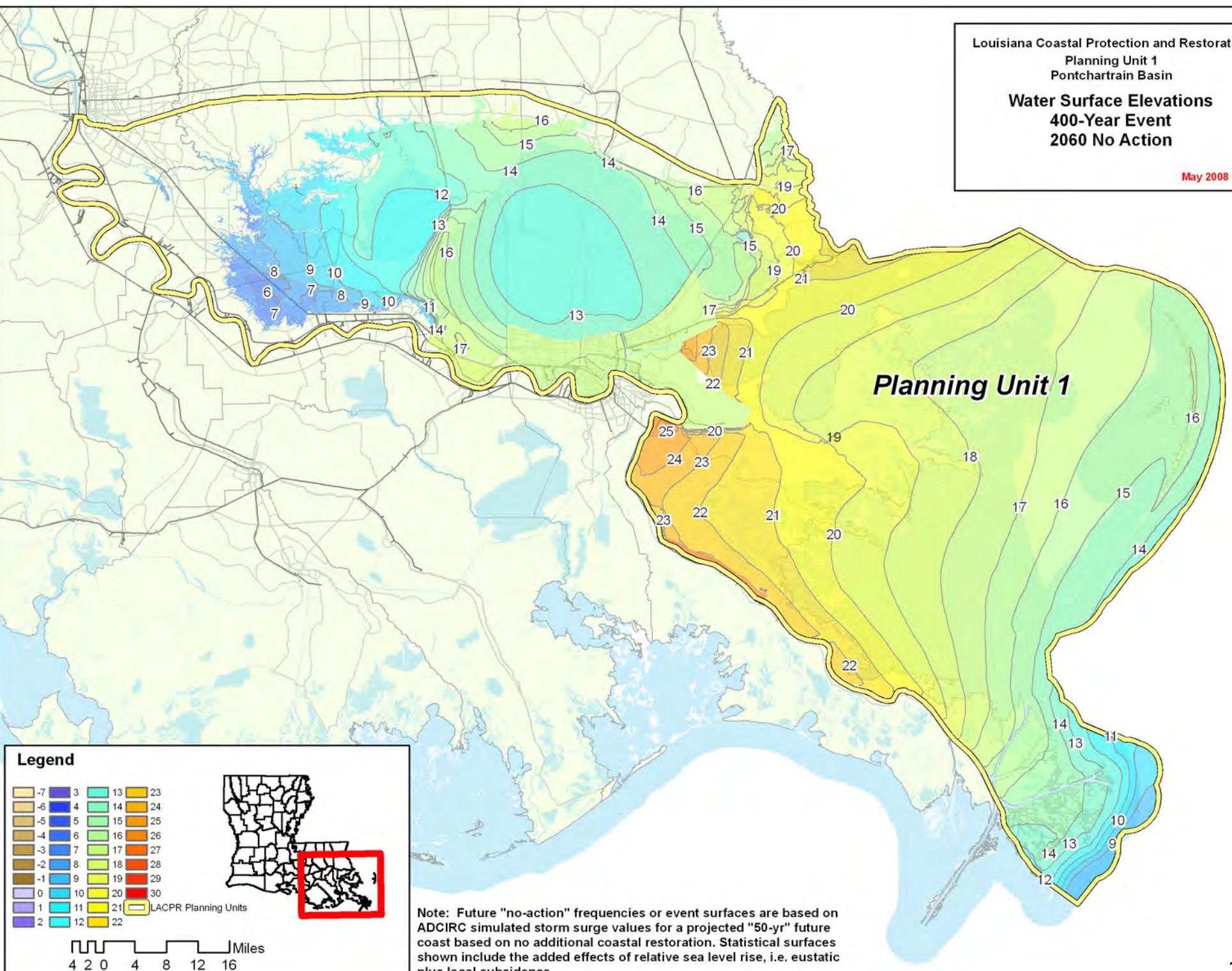
Louisiana Coastal Protection and Restoration

Planning Unit 1
Pontchartrain Basin

**Water Surface Elevations
400-Year Event
2060 No Action**

May 2008

Planning Unit 1



Louisiana Coastal Protection and Restoration

Planning Unit 1
Pontchartrain Basin

Water Depths
400-Year Event
2060 No Action

May 2008

Planning Unit 1

Legend

0	7	14	21
1	8	15	22
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Miles
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Louisiana Coastal Protection and Restoration

Planning Unit 1
Pontchartrain Basin

Water Surface Elevations
1000-Year Event
2060 No Action

May 2008

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Legend

-7	3	13	23
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Miles
4 2 0 4 8 12 16

Note: Future "no-action" frequencies or event surfaces are based on ADCIRC simulated storm surge values for a projected "50-yr" future coast based on no additional coastal restoration. Statistical surfaces shown include the added effects of relative sea level rise, i.e. eustatic plus local subsidence.

Louisiana Coastal Protection and Restoration

Planning Unit 1
Pontchartrain Basin

Water Depths
1000-Year Event
2060 No Action

May 2008

Planning Unit 1

Legend

0	7	14	21
1	8	15	22
2	9	16	23
3	10	17	24
4	11	18	25
5	12	19	LACP Planning Units
6	13	20	



Miles
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Louisiana Coastal Protection and Restoration
Planning Unit 1
Pontchartrain Basin

Change in Depth of Flooding
100-Year Event
2010 Base Conditions vs 2060 No Action

May 2008

Planning Unit 1

Legend

<-6	0-1
-6-5	1-2
-5-4	2-3
-4-3	3-4
-3-2	4-5
-2-1	5-6
-1-0	6>



Miles
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Louisiana Coastal Protection and Restoration
Planning Unit 1
Pontchartrain Basin

Change in Depth of Flooding
400-Year Event
2010 Base Conditions vs 2060 No Action

May 2008

Planning Unit 1

Legend

<-6	0-1
-6-5	1-2
-5-4	2-3
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Miles
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Louisiana Coastal Protection and Restoration
Planning Unit 1
Pontchartrain Basin

Change in Depth of Flooding
1000-Year Event
2010 Base Conditions vs 2060 No Action

May 2008

Planning Unit 1

Legend

<-6	0-1
-6-5	1-2
-5-4	2-3
-4-3	3-4
-3-2	4-5
-2-1	5-6
-1-0	6>



Miles
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Louisiana Coastal Protection and Restoration

Planning Unit 1
Pontchartrain Basin

Water Surface Elevations
100-Year Event
2060 Maintain

May 2008

Planning Unit 1

Legend

-7	3	13	23
-6	4	14	24
-5	5	15	25
-4	6	16	26
-3	7	17	27
-2	8	18	28
-1	9	19	29
0	10	20	30
1	11	21	LACP Planning Units
2	12	22	



Miles
4 2 0 4 8 12 16

Note: Future "maintain coast" frequencies or event surfaces are based on ADCIRC simulated storm surge values for the base coastline. Statistical surfaces shown include the added effects of relative sea level rise, i.e. eustatic plus local subsidence.

Louisiana Coastal Protection and Restoration

Planning Unit 1
Pontchartrain Basin

Water Surface Elevations
400-Year Event
2060 Maintain

May 2008

Planning Unit 1

Legend

-7	3	13	23
-6	4	14	24
-5	5	15	25
-4	6	16	26
-3	7	17	27
-2	8	18	28
-1	9	19	29
0	10	20	30
1	11	21	LACP R Planning Units
2	12	22	



Miles
4 2 0 4 8 12 16

Note: Future "maintain coast" frequencies or event surfaces are based on ADCIRC simulated storm surge values for the base coastline. Statistical surfaces shown include the added effects of relative sea level rise, i.e. eustatic plus local subsidence.

Louisiana Coastal Protection and Restoration

Planning Unit 1
Pontchartrain Basin

Water Surface Elevations
1000-Year Event
2060 Maintain

May 2008

Planning Unit 1

Legend

-7	3	13	23
-6	4	14	24
-5	5	15	25
-4	6	16	26
-3	7	17	27
-2	8	18	28
-1	9	19	29
0	10	20	30
1	11	21	LACP Planning Units
2	12	22	



Miles
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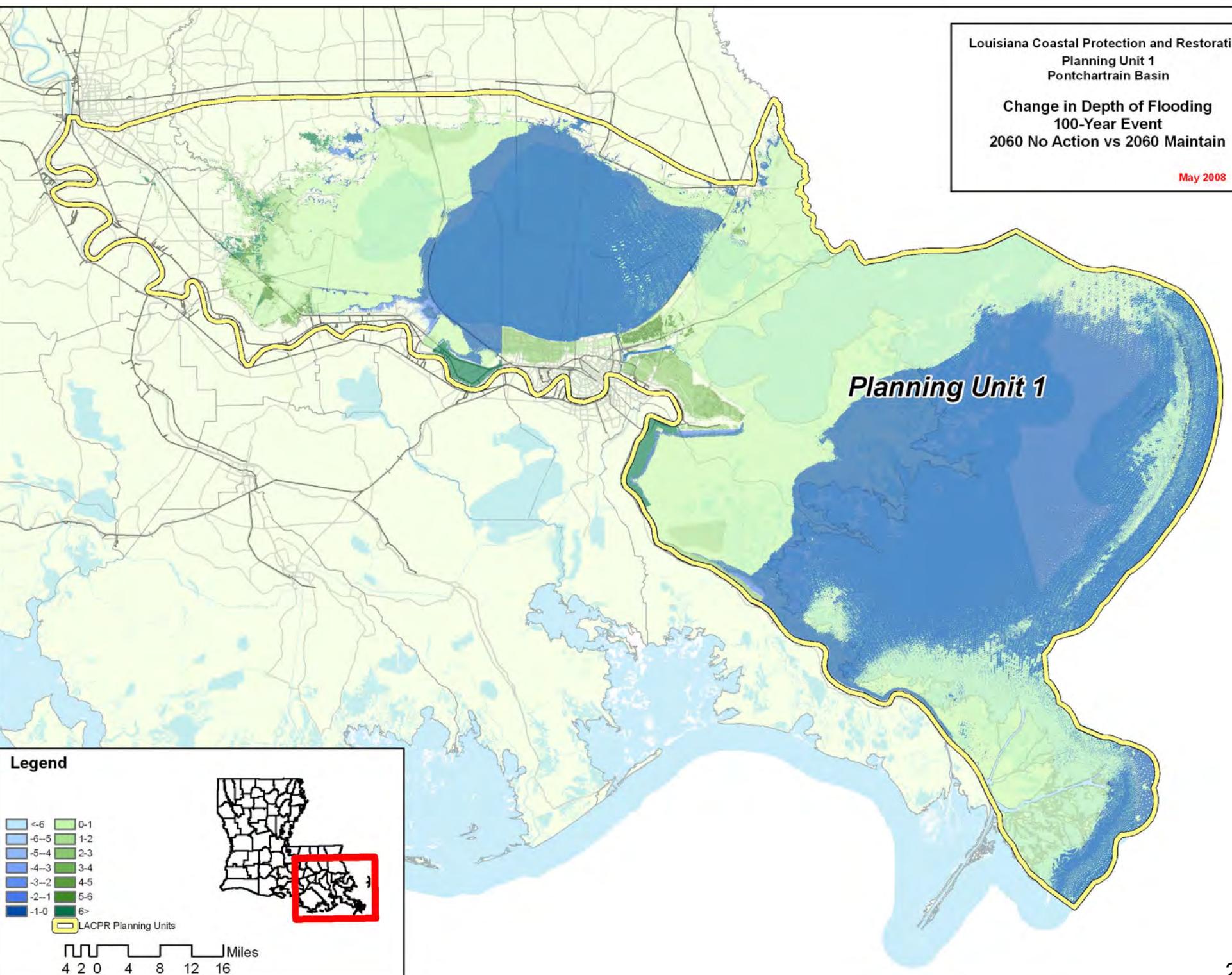
Note: Future "maintain coast" frequencies or event surfaces are based on ADCIRC simulated storm surge values for the base coastline. Statistical surfaces shown include the added effects of relative sea level rise, i.e. eustatic plus local subsidence.

Louisiana Coastal Protection and Restoration
Planning Unit 1
Pontchartrain Basin

Change in Depth of Flooding
100-Year Event
2060 No Action vs 2060 Maintain

May 2008

Planning Unit 1



Louisiana Coastal Protection and Restoration
Planning Unit 1
Pontchartrain Basin

Change in Depth of Flooding
400-Year Event
2060 No Action vs 2060 Maintain

May 2008

Planning Unit 1

Legend

<-6	0-1
-6-5	1-2
-5-4	2-3
-4-3	3-4
-3-2	4-5
-2-1	5-6
-1-0	6>



Miles
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Louisiana Coastal Protection and Restoration
Planning Unit 1
Pontchartrain Basin

Change in Depth of Flooding
1000-Year Event
2060 No Action vs 2060 Maintain

May 2008

Planning Unit 1

Legend

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-6-5	1-2
-5-4	2-3
-4-3	3-4
-3-2	4-5
-2-1	5-6
-1-0	6>



Miles
4 2 0 4 8 12 16

Louisiana Coastal Protection and Restoration
Planning Unit 1
Pontchartrain Basin

Change in Depth of Flooding
100-Year Event
Lake Pontchartrain Surge Reduction
WEIR vs HLP base

May 2008

Planning Unit 1

Legend

<-6	0-1
-6-5	1-2
-5-4	2-3
-4-3	3-4
-3-2	4-5
-2-1	5-6
-1-0	6>
LACP Planning Units	



Miles
4 2 0 4 8 12 16

Louisiana Coastal Protection and Restoration
Planning Unit 1
Pontchartrain Basin

Change in Depth of Flooding
400-Year Event
Lake Pontchartrain Surge Reduction
WEIR vs HLP base

May 2008

Planning Unit 1

Legend

<-6	0-1
-6-5	1-2
-5-4	2-3
-4-3	3-4
-3-2	4-5
-2-1	5-6
-1-0	6>
LACPR Planning Units	



Miles
4 2 0 4 8 12 16

Louisiana Coastal Protection and Restoration
Planning Unit 1
Pontchartrain Basin
Change in Depth of Flooding
1000-Year Event
Lake Pontchartrain Surge Reduction
WEIR vs HLP base
May 2008

Planning Unit 1

Legend

<-6	0-1
-6-5	1-2
-5-4	2-3
-4-3	3-4
-3-2	4-5
-2-1	5-6
-1-0	6>



Miles
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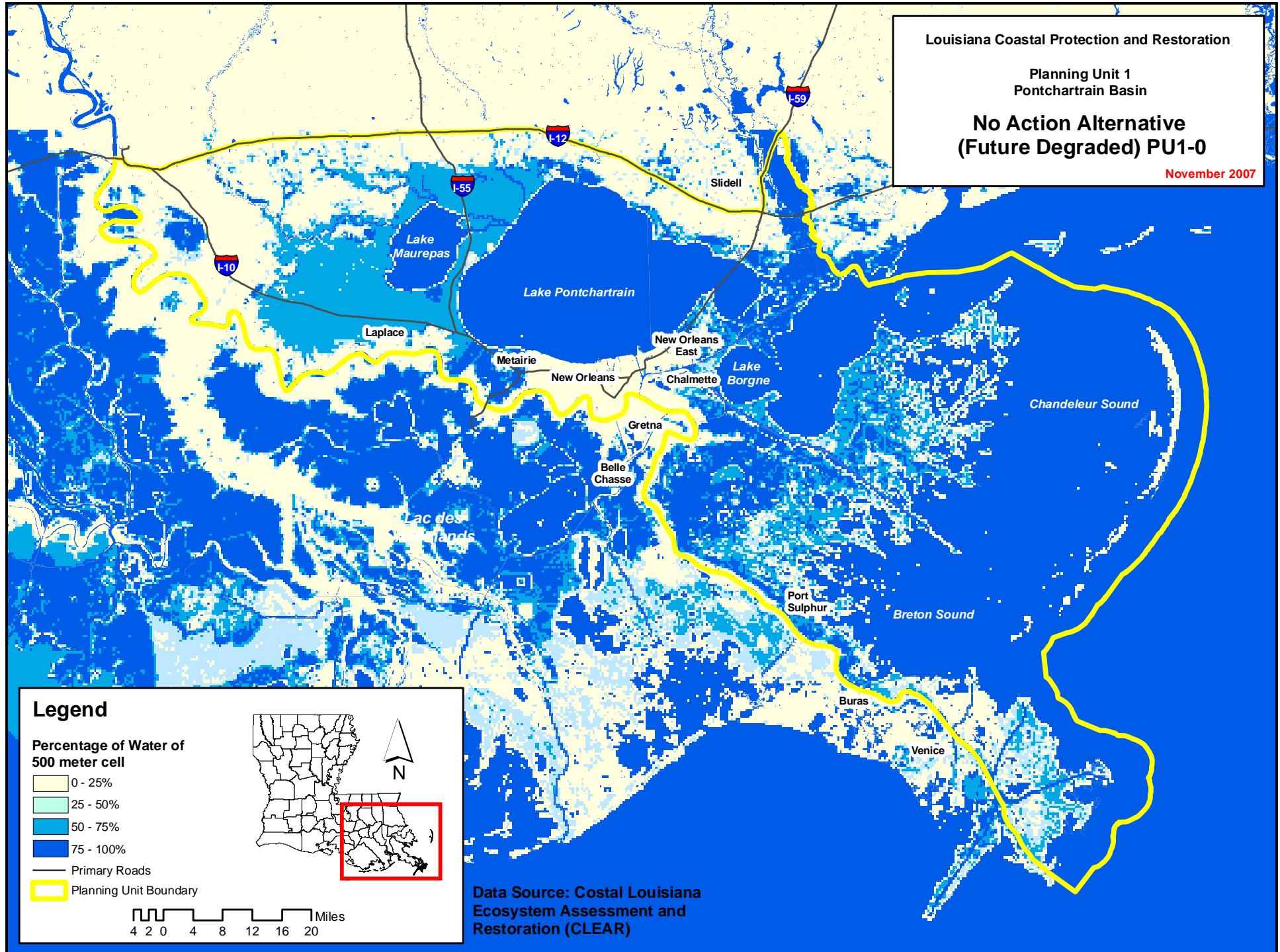
Planning Unit:	1	Alt. No.:	PU1-0	Category:	No Action
Alternative Description:	No action (without project) alternative.				
Coastal Component:	Degraded coast-increasing risk.	Nonstructural Component:		None	
Structural Component:	No new levees or increases in risk reduction level for existing levees.				

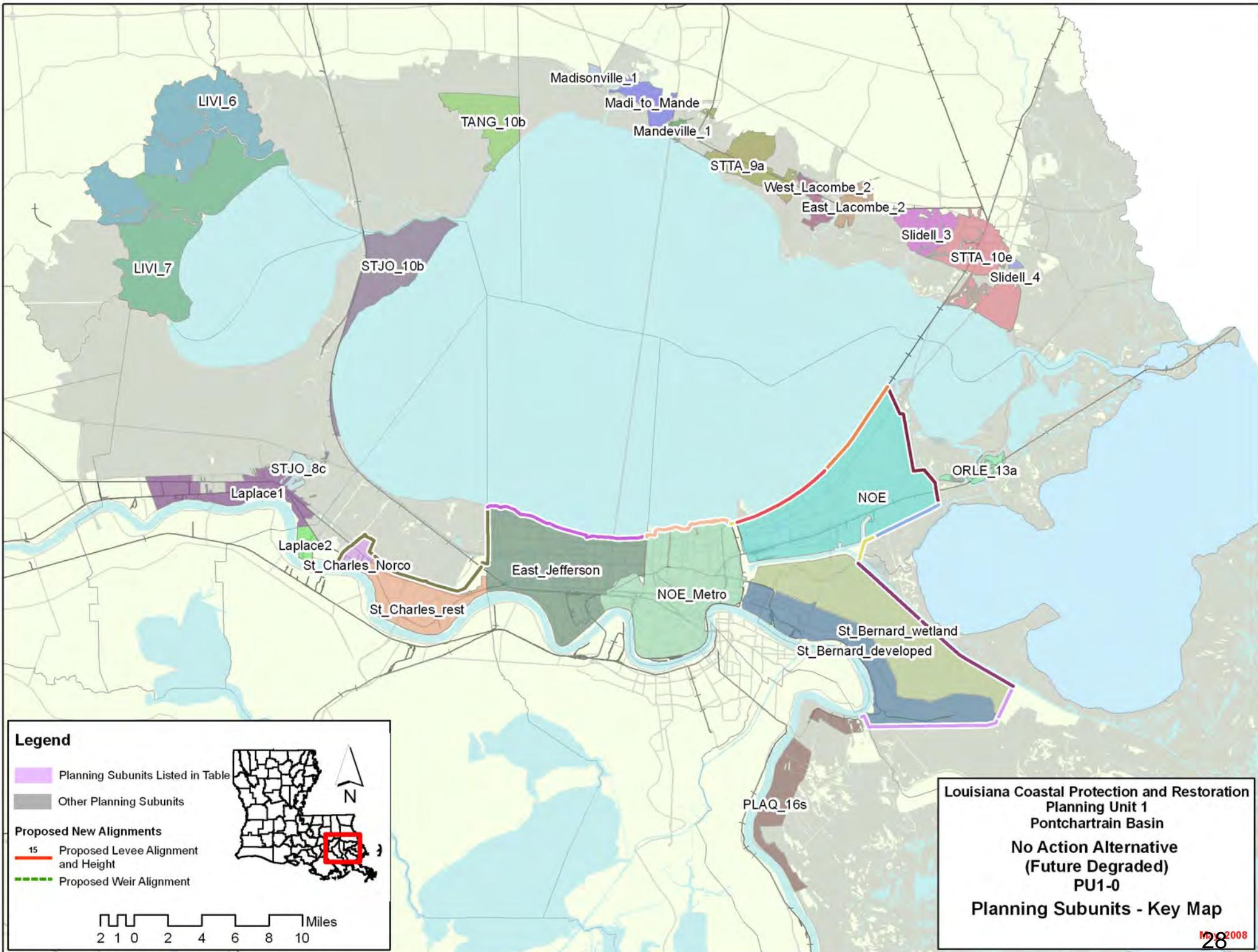
Scenario	Future Conditions (Relative Sea Level Rise (RSLR) and Redevelopment Assumptions)	Uncertainty	Results by Scenario with Uncertainty Bands								
			Life Cycle Cost	Population Impacted	Residual Damages	Gross Regional Output Impacted	Employment Impacted	People's Earned Income Impacted	Archeo. Sites Protected	Historic Properties Protected	Historic Districts Protected
			Ann. Equiv. \$ Millions	Ann. Equiv. #	Ann. Equiv. \$ Millions	Ann. Equiv. \$ Millions	Ann. Equiv. #	Ann. Equiv. \$ Millions	# Sites	# Properties	# Districts
1	Low RSLR High Employment Dispersed Population	High	0	37,371	442	287	1,471	76	143	130	50
		Mid		41,502	716	787	3,036	204	127	126	46
		Low		51,017	1,401	1,742	6,339	449	111	122	41
2	High RSLR High Employment Dispersed Population	High	0	38,803	522	524	2,092	134	143	130	50
		Mid		45,147	930	1,222	4,267	314	127	125	44
		Low		55,748	2,129	3,440	11,040	897	111	119	38
3	Low RSLR Business-as-Usual Compact Population	High	0	32,147	441	290	1,503	78	143	130	50
		Mid		35,876	684	656	2,785	174	127	126	46
		Low		43,832	1,267	1,262	5,246	341	111	122	41
4	High RSLR Business-as-Usual Compact Population	High	0	33,074	509	425	1,954	120	143	130	50
		Mid		38,592	852	879	3,526	239	127	125	44
		Low		47,254	1,800	2,710	8,909	700	111	119	38

Other Results			Wetlands Created/Protected		Scenario 1	Scenario 2	Scenario 3	Scenario 4
Construction Time (years)			After 50 yrs (% of baseline)		74	71	74	71
Direct Wetland Impacts (acres)			After 100 yrs (% of baseline)		49	37	49	37
Indirect Impacts (unitless)			Present Value of Life Cycle Costs (\$ Millions)					
Spatial Integrity (unitless)			Coastal Component		0	0	0	0
Non-Federal Share of Present Value of Life Cycle Costs	Scenario	(\$ Millions)	Nonstructural Component		0	0	0	0
	1 / 2	0	Structural Component		0	0	0	0
	3 / 4	0	Total Project		0	0	0	0

2075 Residual Risk / Damages - Low Uncertainty (\$ Millions)								Planning Unit 1 No Action Plan
Frequency	Scenario 1		Scenario 2		Scenario 3		Scenario 4	
	No Action	With Proj						
10-year	1,215	N/A	1,472	N/A	1,081	N/A	1,345	N/A
100-year	11,935	N/A	34,000	N/A	9,879	N/A	26,076	N/A
400-year	89,937	N/A	116,204	N/A	62,688	N/A	80,694	N/A
1,000-year	118,260	N/A	122,423	N/A	81,963	N/A	84,515	N/A
2,000-year	122,343	N/A	125,886	N/A	84,351	N/A	86,336	N/A

Note: Present Value costs and Annual Equivalent numbers are calculated for the period from 2010 to 2075 at common base year 2025 using a 4.78% Federal discount rate. All dollar metrics are based on 2007 price levels.





Legend

- ### Planning Subunits Listed in Table

Proposed New Alignments

- 15** Proposed Levee Alignment
and Height
Proposed Weir Alignment



**Louisiana Coastal Protection and Restoration
Planning Unit 1
Pontchartrain Basin**

**No Action Alternative
(Future Degraded)
PU1-0**

Planning Subunits - Key Map

Alternative: PU1-0
Water Surface Elevations (feet - NAVD88 2004.65)

Planning Sub Unit	2010 (Base) Conditions						2060 (Future) Conditions					
	100-yr Event		400-year Event		1,000-yr Event		100-yr Event		400-year Event		1,000-yr Event	
	Without Project	With Project	Without Project	With Project	Without Project	With Project	Without Project	With Project	Without Project	With Project	Without Project	With Project
East_Jefferson	-5.1		-1.3		4.4		-2.6		16.0		16.0	
East_Lacombe_2	10.9		14.3		15.9		17.3		21.7		23.6	
Laplace1	9.4		12.2		14.0		12.4		15.0		16.8	
Laplace2	8.5		11.0		12.8		11.2		14.3		16.2	
LIVI_6	7.3		9.7		11.1		10.3		12.8		13.9	
LIVI_7	7.5		9.7		10.9		11.0		13.1		14.4	
Madi_to_Mande	11.0		13.1		14.3		13.8		16.7		18.3	
Madisonville_1	11.7		14.6		16.1		13.5		15.8		16.9	
Mandeville_1	11.0		13.1		14.3		14.9		19.1		21.4	
NOE	-5.8		0.5		10.9		-0.1		16.0		16.0	
NOE_Metro	-5.1		-4.8		-3.0		-5.0		16.0		16.0	
ORLE_13a	14.6		17.8		19.4		17.9		21.5		23.8	
PLAQ_16s	19.2		25.3		30.0		21.4		27.8		31.8	
Slidell_3	11.5		15.1		16.8		13.4		16.8		18.5	
Slidell_4	14.1		18.3		20.4		20.5		24.3		26.5	
St_Bernard_developed	-0.1		4.3		10.6		2.3		16.0		16.0	
St_Bernard_wetland	2.4		5.2		10.6		4.5		16.0		16.0	
St_Charles_Norco	4.4		16.0		16.0		11.5		17.3		18.6	
St_Charles_rest	2.1		16.0		16.0		11.5		17.3		18.6	
STJO_10b	10.6		12.9		14.1		13.3		15.6		16.7	
STJO_8c	9.4		12.2		14.0		12.7		15.4		17.2	
STTA_10e	12.2		16.2		18.2		13.3		16.7		18.6	
STTA_9a	10.4		12.7		14.0		13.2		15.6		17.5	
TANG_10b	11.0		13.6		15.0		13.7		16.3		17.8	
West_Lacombe_2	10.5		13.5		15.0		13.2		15.8		17.3	
Evaluation Parameters	Confidence Level:			90%	2.6 feet	Levee Design:			No Friction Waves			
	Future Relative Sea Level Rise:					Levee Overtopping:			No Friction Waves			

Planning Unit:	1	Alt. No.:	PU1-R1	Category:	Coastal Restoration Only
Alternative Description:	Sustain coastal landscape through restoration including shoreline protection, marsh creation, and steady state diversions.				
Coastal Component:	R1 (steady state diversions)	Nonstructural Component:	None		
Structural Component:	No new levees or increases in risk reduction level for existing levees.				

Scenario	Future Conditions (Relative Sea Level Rise (RSLR) and Redevelopment Assumptions)	Uncertainty	Results by Scenario with Uncertainty Bands								
			Life Cycle Cost	Population Impacted	Residual Damages	Gross Regional Output Impacted	Employment Impacted	People's Earned Income Impacted	Archeo. Sites Protected	Historic Properties Protected	Historic Districts Protected
			Ann. Equiv \$ Millions	Ann. Equiv. #	Ann. Equiv \$ Millions	Ann. Equiv \$ Millions	Ann. Equiv #	Ann. Equiv \$ Millions	# Sites	# Properties	# Districts
1	Low RSLR High Employment Dispersed Population	High	484	37,016	423	278	1,443	74	313	134	51
		Mid		40,243	616	486	2,219	123	267	130	48
		Low		45,113	1,106	1,237	4,983	323	221	126	43
2	High RSLR High Employment Dispersed Population	High	496	38,180	483	428	1,847	111	313	134	51
		Mid		41,354	693	811	3,225	217	267	129	45
		Low		46,581	1,313	1,344	5,378	358	221	123	40
3	Low RSLR Business-as-Usual Compact Population	High	484	31,844	424	273	1,468	74	313	134	51
		Mid		34,923	614	441	2,189	116	267	130	48
		Low		39,623	1,075	981	4,536	275	221	126	43
4	High RSLR Business-as-Usual Compact Population	High	496	32,620	480	378	1,818	107	313	134	51
		Mid		35,729	677	648	2,955	189	267	129	45
		Low		40,585	1,210	1,072	4,876	305	221	123	40

Other Results			Wetlands Created/Protected		Scenario 1	Scenario 2	Scenario 3	Scenario 4
Construction Time (years)			After 50 yrs (% of baseline)		107	104	107	104
Direct Wetland Impacts (acres)			After 100 yrs (% of baseline)		105	96	105	96
Indirect Impacts (unitless)			Present Value of Life Cycle Costs (\$ Millions)					
Spatial Integrity (unitless)			Coastal Component		9,476	9,710	9,476	9,710
Non-Federal Share of Present Value of Life Cycle Costs	Scenario	(\$ Millions)	Nonstructural Component		0	0	0	0
	1 / 2	3,317	Structural Component		0	0	0	0
	3 / 4	3,317	Total Project		9,476	9,710	9,476	9,710

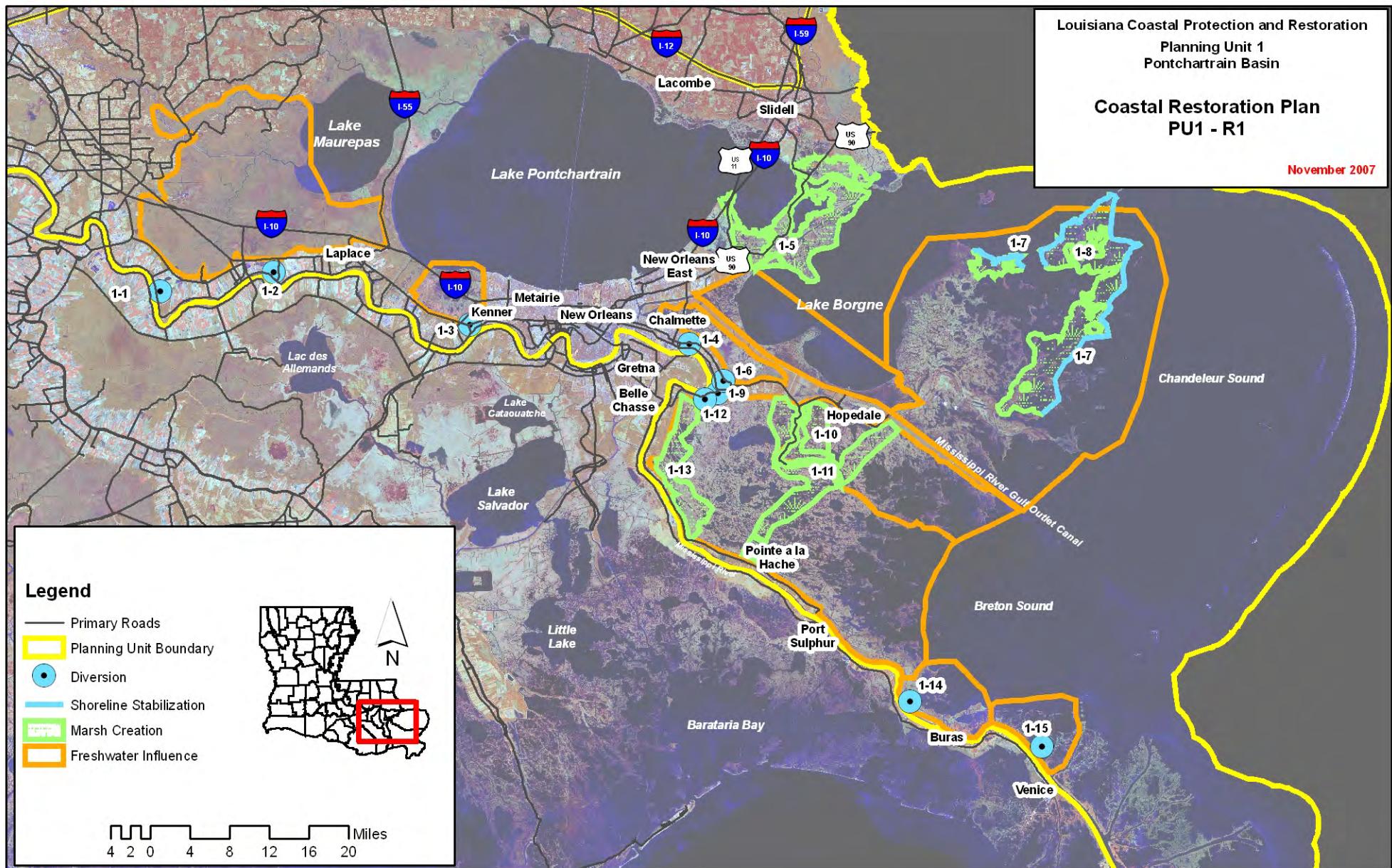
2075 Residual Risk / Damages - Low Uncertainty (\$ Millions)								Planning Unit 1 Coastal Plan Coastal Restoration Alt	
Frequency	Scenario 1		Scenario 2		Scenario 3		Scenario 4		
	No Action	With Proj							
10-year	1,215	1,214	1,472	1,466	1,081	1,081	1,345	1,339	
100-year	11,935	5,957	34,000	12,291	9,879	5,946	26,076	9,992	
400-year	89,937	54,550	116,204	58,923	62,688	40,242	80,694	42,875	
1,000-year	118,260	78,763	122,423	82,448	81,963	56,290	84,515	58,415	
2,000-year	122,343	119,248	125,886	123,202	84,351	82,754	86,336	84,994	

Note: Present Value costs and Annual Equivalent numbers are calculated for the period from 2010 to 2075 at common base year 2025 using a 4.7%/8% Federal discount rate. All dollar metrics are based on 2007 price levels.

Louisiana Coastal Protection and Restoration
Planning Unit 1
Pontchartrain Basin

Coastal Restoration Plan
PU1 - R1

November 2007



Planning Unit:	1	Alt. No.:	PU1-R2	Category:	Coastal Restoration Only
Alternative Description:	Sustain coastal landscape through restoration including shoreline protection, marsh creation, and pulsed diversions.				
Coastal Component:	R2 (pulsed diversions)	Nonstructural Component:	None		
Structural Component:	No new levees or increases in risk reduction level for existing levees.				

Scenario	Future Conditions (Relative Sea Level Rise (RSLR) and Redevelopment Assumptions)	Uncertainty	Results by Scenario with Uncertainty Bands								
			Life Cycle Cost	Population Impacted	Residual Damages	Gross Regional Output Impacted	Employment Impacted	People's Earned Income Impacted	Archeo. Sites Protected	Historic Properties Protected	Historic Districts Protected
			Ann. Equiv. \$ Millions	Ann. Equiv. #	Ann. Equiv. \$ Millions	Ann. Equiv. \$ Millions	Ann. Equiv. #	Ann. Equiv. \$ Millions	# Sites	# Properties	# Districts
1	Low RSLR High Employment Dispersed Population	High	543	37,016	423	278	1,443	74	313	134	51
		Mid		40,243	616	486	2,219	123	267	130	48
		Low		45,113	1,106	1,237	4,983	323	221	126	43
2	High RSLR High Employment Dispersed Population	High	557	38,180	483	428	1,847	111	313	134	51
		Mid		41,354	693	811	3,225	217	267	129	45
		Low		46,581	1,313	1,344	5,378	358	221	123	40
3	Low RSLR Business-as-Usual Compact Population	High	543	31,844	424	273	1,468	74	313	134	51
		Mid		34,923	614	441	2,189	116	267	130	48
		Low		39,623	1,075	981	4,536	275	221	126	43
4	High RSLR Business-as-Usual Compact Population	High	557	32,620	480	378	1,818	107	313	134	51
		Mid		35,729	677	648	2,955	189	267	129	45
		Low		40,585	1,210	1,072	4,876	305	221	123	40

Other Results			Wetlands Created/Protected		Scenario 1	Scenario 2	Scenario 3	Scenario 4
Construction Time (years)			After 50 yrs (% of baseline)		106	104	106	104
Direct Wetland Impacts (acres)			After 100 yrs (% of baseline)		104	95	104	95
Indirect Impacts (unitless)			Present Value of Life Cycle Costs (\$ Millions)					
Spatial Integrity (unitless)			Coastal Component		10,666	10,899	10,666	10,899
Non-Federal Share of Present Value of Life Cycle Costs	Scenario	(\$ Millions)	Nonstructural Component		0	0	0	0
	1 / 2	3,733	Structural Component		0	0	0	0
	3 / 4	3,733	Total Project		10,666	10,899	10,666	10,899

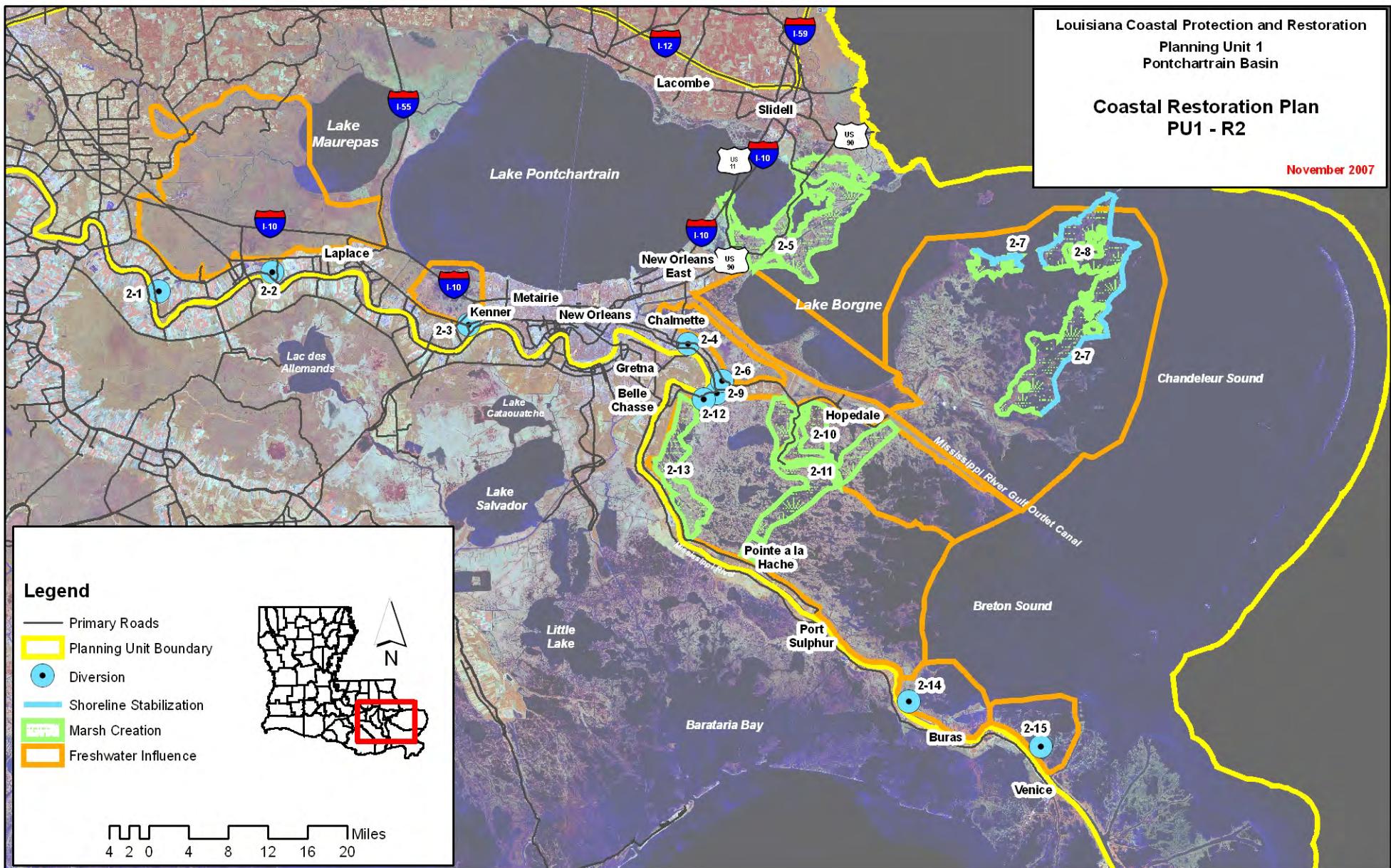
2075 Residual Risk / Damages - Low Uncertainty (\$ Millions)								Planning Unit 1 Coastal Plan Coastal Restoration Alt	
Frequency	Scenario 1		Scenario 2		Scenario 3		Scenario 4		
	No Action	With Proj							
	1,215	1,214	1,472	1,466	1,081	1,081	1,345	1,339	
10-year	11,935	5,957	34,000	12,291	9,879	5,946	26,076	9,992	
100-year	89,937	54,550	116,204	58,923	62,688	40,242	80,694	42,875	
400-year	118,260	78,763	122,423	82,448	81,963	56,290	84,515	58,415	
1,000-year	122,343	119,248	125,886	123,202	84,351	82,754	86,336	84,994	
2,000-year									

Note: Present Value costs and Annual Equivalent numbers are calculated for the period from 2010 to 2075 at common base year 2025 using a 4.7%/8% Federal discount rate. All dollar metrics are based on 2007 price levels.

Louisiana Coastal Protection and Restoration
Planning Unit 1
Pontchartrain Basin

Coastal Restoration Plan
PU1 - R2

November 2007



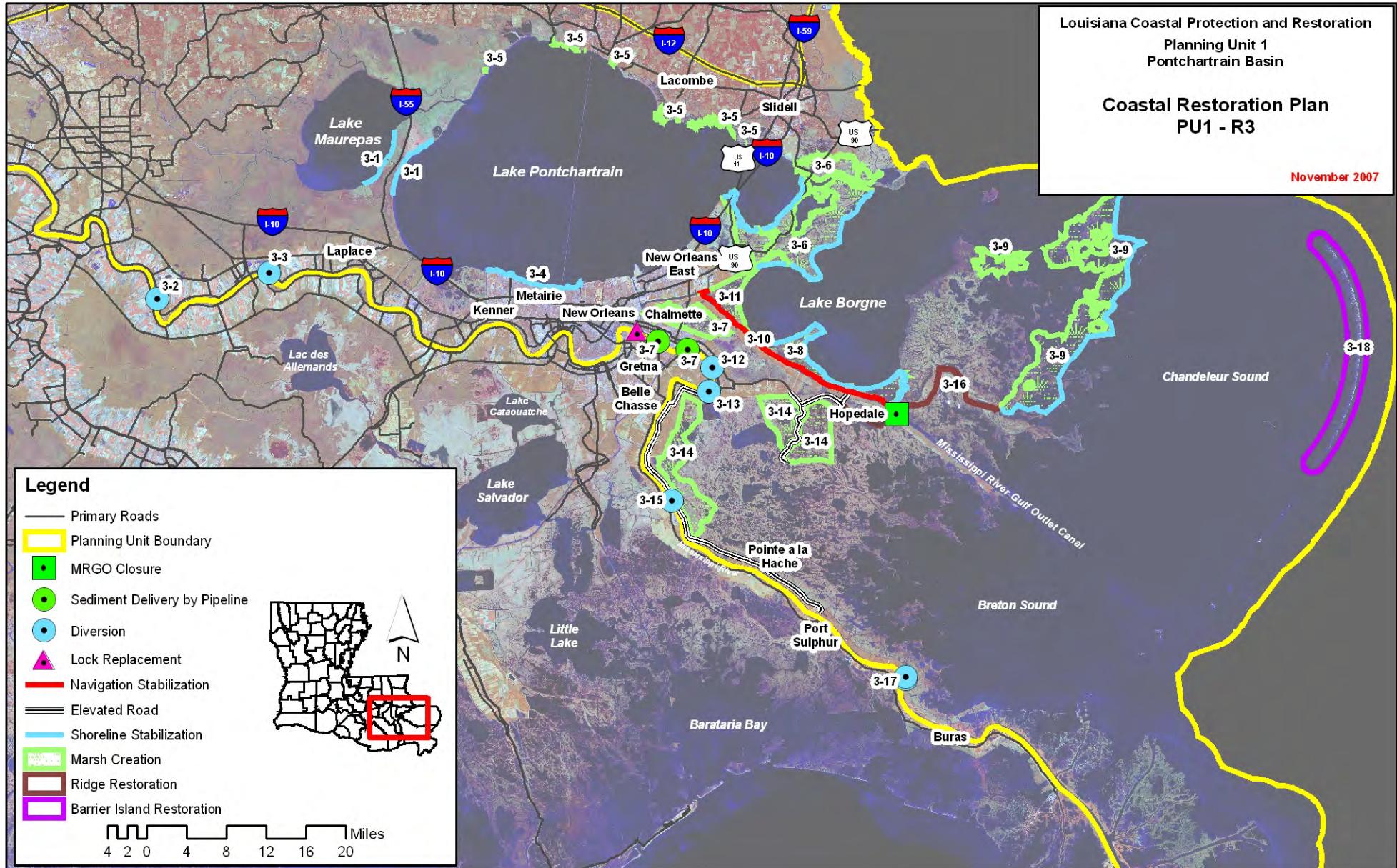
Planning Unit:	1	Alt. No.:	PU1-R3	Category:	Coastal Restoration Only				
Alternative Description:	Sustain coastal landscape through restoration including shoreline protection, marsh creation, and diversions as proposed in the State Master Plan.								
Coastal Component:	R3 (state plan)			Nonstructural Component:		None			
Structural Component:	No new levees or increases in risk reduction level for existing levees.								

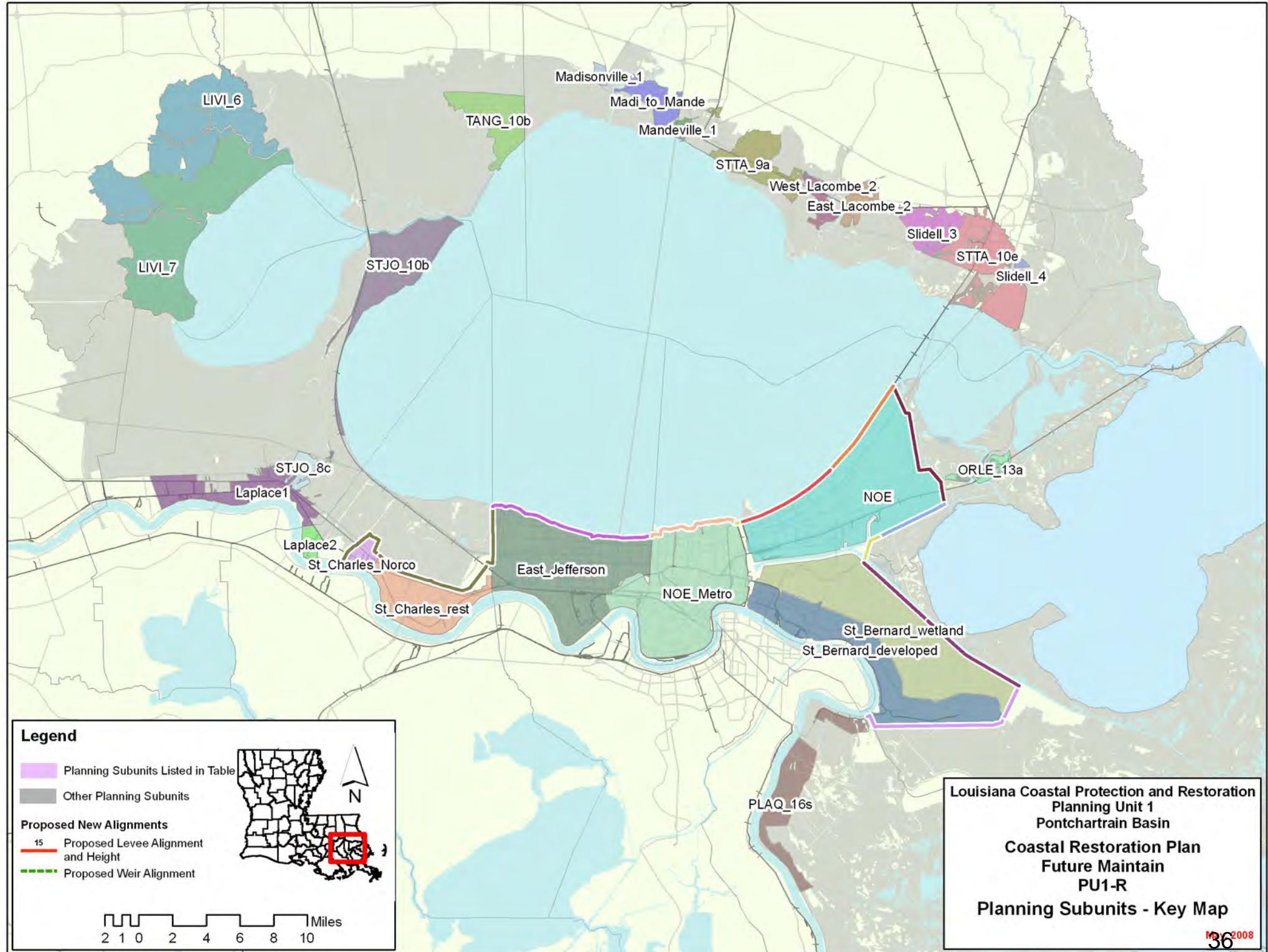
Scenario	Future Conditions (Relative Sea Level Rise (RSLR) and Redevelopment Assumptions)	Uncertainty	Results by Scenario with Uncertainty Bands								
			Life Cycle Cost	Population Impacted	Residual Damages	Gross Regional Output Impacted	Employment Impacted	People's Earned Income Impacted	Archeo. Sites Protected	Historic Properties Protected	
			Ann. Equiv \$ Millions	Ann. Equiv. #	Ann. Equiv \$ Millions	Ann. Equiv \$ Millions	Ann. Equiv #	Ann. Equiv \$ Millions	# Sites	# Properties	
1	Low RSLR High Employment Dispersed Population	High	777	37,016	423	278	1,443	74	313	134	51
		Mid		40,243	616	486	2,219	123	267	130	48
		Low		45,113	1,106	1,237	4,983	323	221	126	43
2	High RSLR High Employment Dispersed Population	High	798	38,180	483	428	1,847	111	313	134	51
		Mid		41,354	693	811	3,225	217	267	129	45
		Low		46,581	1,313	1,344	5,378	358	221	123	40
3	Low RSLR Business-as-Usual Compact Population	High	777	31,844	424	273	1,468	74	313	134	51
		Mid		34,923	614	441	2,189	116	267	130	48
		Low		39,623	1,075	981	4,536	275	221	126	43
4	High RSLR Business-as-Usual Compact Population	High	798	32,620	480	378	1,818	107	313	134	51
		Mid		35,729	677	648	2,955	189	267	129	45
		Low		40,585	1,210	1,072	4,876	305	221	123	40

Other Results			Wetlands Created/Protected		Scenario 1	Scenario 2	Scenario 3	Scenario 4
Construction Time (years)			After 50 yrs (% of baseline)		109	107	109	107
Direct Wetland Impacts (acres)			After 100 yrs (% of baseline)		101	94	101	94
Indirect Impacts (unitless)			Present Value of Life Cycle Costs (\$ Millions)					
Spatial Integrity (unitless)			Coastal Component		15,208	15,618	15,208	15,618
Non-Federal Share of Present Value of Life Cycle Costs	Scenario	(\$ Millions)	Nonstructural Component		0	0	0	0
	1 / 2	5,323	Structural Component		0	0	0	0
	3 / 4	5,323	Total Project		15,208	15,618	15,208	15,618

2075 Residual Risk / Damages - Low Uncertainty (\$ Millions)								Planning Unit 1 Coastal Plan Coastal Restoration Alt	
Frequency	Scenario 1		Scenario 2		Scenario 3		Scenario 4		
	No Action	With Proj							
10-year	1,215	1,214	1,472	1,466	1,081	1,081	1,345	1,339	
100-year	11,935	5,957	34,000	12,291	9,879	5,946	26,076	9,992	
400-year	89,937	54,550	116,204	58,923	62,688	40,242	80,694	42,875	
1,000-year	118,260	78,763	122,423	82,448	81,963	56,290	84,515	58,415	
2,000-year	122,343	119,248	125,886	123,202	84,351	82,754	86,336	84,994	

Note: Present Value costs and Annual Equivalent numbers are calculated for the period from 2010 to 2075 at common base year 2025 using a 4.7%/8% Federal discount rate. All dollar metrics are based on 2007 price levels.





Alternative: PU1-R1, R2, and R3
Water Surface Elevations (feet - NAVD88 2004.65)

Planning Sub Unit	2010 (Base) Conditions*						2060 (Future) Conditions					
	100-yr Event		400-year Event		1,000-yr Event		100-yr Event		400-year Event		1,000-yr Event	
	Without Project	With Project	Without Project	With Project	Without Project	With Project	Without Project	With Project	Without Project	With Project	Without Project	With Project
East_Jefferson	-5.1	-5.1	-1.3	-1.3	4.4	4.4	-2.6	-5.1	16.0	-1.3	16.0	4.4
East_Lacombe_2	10.9	10.9	14.3	14.3	15.9	15.9	17.3	13.5	21.7	16.9	23.6	18.5
Laplace1	9.4	9.4	12.2	12.2	14.0	14.0	12.4	12.0	15.0	14.8	16.8	16.6
Laplace2	8.5	8.5	11.0	11.0	12.8	12.8	11.2	11.1	14.3	13.6	16.2	15.4
LIVI_6	7.3	7.3	9.7	9.7	11.1	11.1	10.3	9.9	12.8	12.3	13.9	13.7
LIVI_7	7.5	7.5	9.7	9.7	10.9	10.9	11.0	10.1	13.1	12.3	14.4	13.5
Madi_to_Mande	11.0	11.0	13.1	13.1	14.3	14.3	13.8	13.6	16.7	15.7	18.3	16.9
Madisonville_1	11.7	11.7	14.6	14.6	16.1	16.1	13.5	13.5	15.8	15.8	16.9	16.9
Mandeville_1	11.0	11.0	13.1	13.1	14.3	14.3	14.9	13.6	19.1	15.7	21.4	16.9
NOE	-5.8	-5.8	0.5	0.5	10.9	10.9	-0.1	-5.8	16.0	0.5	16.0	10.9
NOE_Metro	-5.1	-5.1	-4.8	-4.8	-3.0	-3.0	-5.0	-5.1	16.0	-4.8	16.0	-3.0
ORLE_13a	14.6	14.6	17.8	17.8	19.4	19.4	17.9	17.2	21.5	20.4	23.8	22.0
PLAQ_16s	19.2	19.2	25.3	25.3	30.0	30.0	21.4	21.8	27.8	27.8	31.8	31.8
Slidell_3	11.5	11.5	15.1	15.1	16.8	16.8	13.4	13.4	16.8	16.8	18.5	18.5
Slidell_4	14.1	14.1	18.3	18.3	20.4	20.4	20.5	16.7	24.3	20.9	26.5	23.0
St_Bernard_developed	-0.1	-0.1	4.3	4.3	10.6	10.6	2.3	-0.1	16.0	4.3	16.0	10.6
St_Bernard_wetland	2.4	2.4	5.2	5.2	10.6	10.6	4.5	2.4	16.0	5.2	16.0	10.6
St_Charles_Norco	4.4	4.4	16.0	16.0	16.0	16.0	11.5	4.4	17.3	16.0	18.6	16.0
St_Charles_rest	2.1	2.1	16.0	16.0	16.0	16.0	11.5	2.1	17.3	16.0	18.6	16.0
STJO_10b	10.6	10.6	12.9	12.9	14.1	14.1	13.3	13.2	15.6	15.5	16.7	16.7
STJO_8c	9.4	9.4	12.2	12.2	14.0	14.0	12.7	12.0	15.4	12.0	17.2	16.6
STTA_10e	12.2	12.2	16.2	16.2	18.2	18.2	13.3	13.3	16.7	16.7	18.6	18.6
STTA_9a	10.4	10.4	12.7	12.7	14.0	14.0	13.2	13.0	15.6	15.3	17.5	16.6
TANG_10b	11.0	11.0	13.6	13.6	15.0	15.0	13.7	13.6	16.3	16.2	17.8	17.6
West_Lacombe_2	10.5	10.5	13.5	13.5	15.0	15.0	13.2	13.1	15.8	15.8	17.3	17.3
Evaluation Parameters	Confidence Level:			90%	Levee Design:	No Friction Waves				Levee Overtopping:	No Friction Waves	
	Future Relative Sea Level Rise:			2.6 feet		No Friction Waves					No Friction Waves	

* With and without project base conditions (2010) are the same for coastal restoration only plans.

Planning Unit:	1	Alt. No.:	PU1-NS-100	Category:	Coastal Restoration + Nonstructural Measures
Alternative Description:	Sustain coastal landscape through restoration. Implement comprehensive 100-year nonstructural measures.				
Coastal Component:	R2 (pulsed diversions)	Nonstructural Component:		100-yr stand alone measures	
Structural Component:	No new levees or increases in risk reduction level for existing levees.				

Scenario	Future Conditions (Relative Sea Level Rise (RSLR) and Redevelopment Assumptions)	Uncertainty	Results by Scenario with Uncertainty Bands								
			Life Cycle Cost	Population Impacted	Residual Damages	Gross Regional Output Impacted	Employment Impacted	People's Earned Income Impacted	Archeo. Sites Protected	Historic Properties Protected	Historic Districts Protected
			Ann. Equiv. \$ Millions	Ann. Equiv. #	Ann. Equiv. \$ Millions	Ann. Equiv. \$ Millions	Ann. Equiv. #	Ann. Equiv. \$ Millions	# Sites	# Properties	# Districts
1	Low RSLR High Employment Dispersed Population	High	873	32,289	204	79	542	21	313	134	51
		Mid		35,151	319	212	1,146	54	267	130	48
		Low		39,672	732	687	3,236	180	221	126	43
2	High RSLR High Employment Dispersed Population	High	885	32,854	222	164	750	42	313	134	51
		Mid		35,717	354	370	1,628	97	267	129	45
		Low		40,410	834	740	3,430	197	221	123	40
3	Low RSLR Business-as-Usual Compact Population	High	844	30,285	201	74	551	21	313	134	51
		Mid		33,272	317	195	1,187	53	267	130	48
		Low		37,927	724	607	3,186	169	221	126	43
4	High RSLR Business-as-Usual Compact Population	High	866	30,673	216	143	751	42	313	134	51
		Mid		33,684	346	326	1,636	95	267	129	45
		Low		38,414	803	651	3,351	183	221	123	40

Other Results			Wetlands Created/Protected		Scenario 1	Scenario 2	Scenario 3	Scenario 4
Construction Time (years)			After 50 yrs (% of baseline)		106	104	106	104
Direct Wetland Impacts (acres)			After 100 yrs (% of baseline)		104	95	104	95
Indirect Impacts (unitless)			Present Value of Life Cycle Costs (\$ Millions)					
Spatial Integrity (unitless)			Coastal Component		10,666	10,899	10,666	10,899
Non-Federal Share of Present Value of Life Cycle Costs	Scenario	(\$ Millions)		Nonstructural Component		6,453	6,453	6,069
	1 / 2	5,992	6,073	Structural Component		0	0	0
	3 / 4	5,857	5,939	Total Project		17,119	17,352	16,735
2075 Residual Risk / Damages - Low Uncertainty (\$ Millions)								Planning Unit 1 Nonstructural Plan 100-year Design

Frequency	Scenario 1		Scenario 2		Scenario 3		Scenario 4		Planning Unit 1 Nonstructural Plan 100-year Design
	No Action	With Proj							
10-year	1,215	490	1,472	529	1,081	372	1,345	399	
100-year	11,935	2,191	34,000	8,386	9,879	1,945	26,076	6,799	
400-year	89,937	50,601	116,204	55,036	62,688	37,766	80,694	40,722	
1,000-year	118,260	74,874	122,423	78,489	81,963	54,169	84,515	56,320	
2,000-year	122,343	115,364	125,886	119,181	84,351	80,708	86,336	82,932	

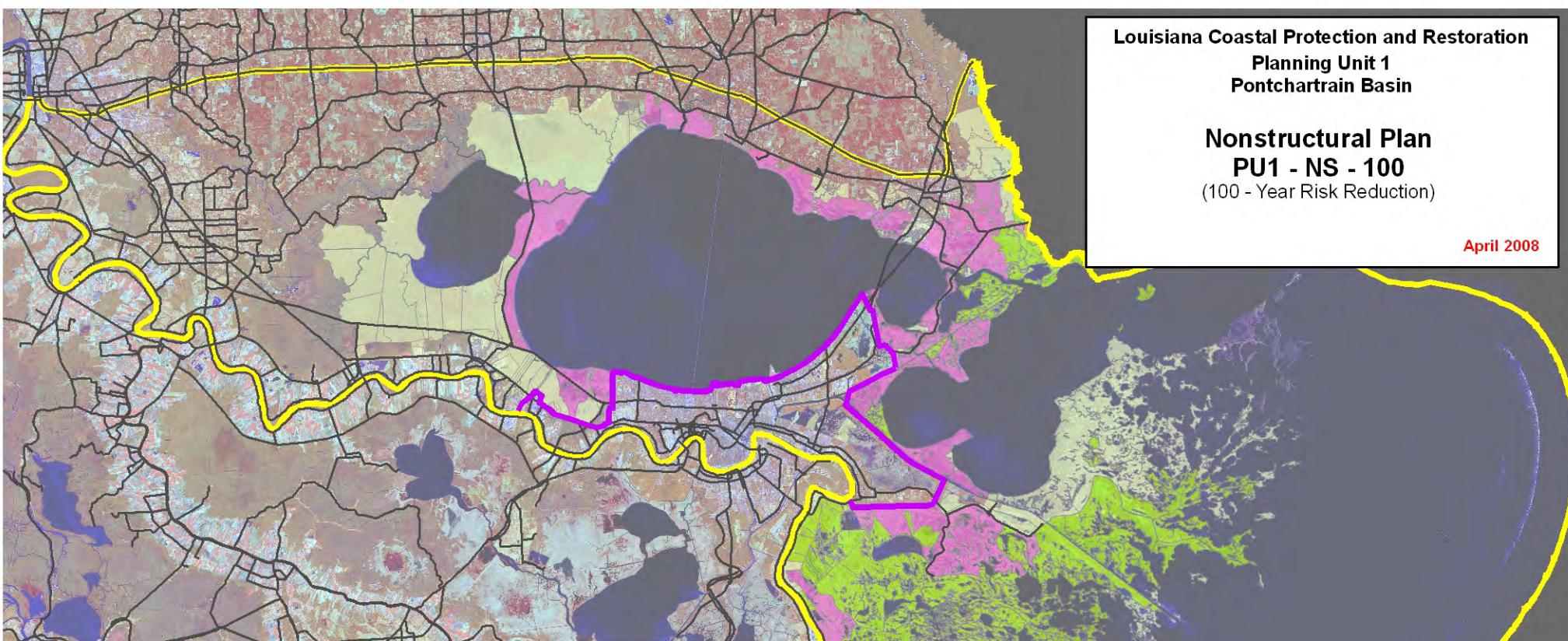
Note: Present Value costs and Annual Equivalent numbers are calculated for the period from 2010 to 2075 at common base year 2025 using a 4.7%/8% Federal discount rate. All dollar metrics are based on 2007 price levels.

Nonstructural Plan

PU1 - NS - 100

(100 - Year Risk Reduction)

April 2008



Legend

- Primary Roads
- Authorized 100 -Year Levee
- Planning Unit 1

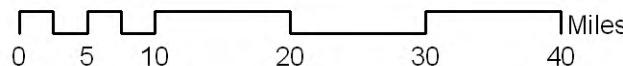
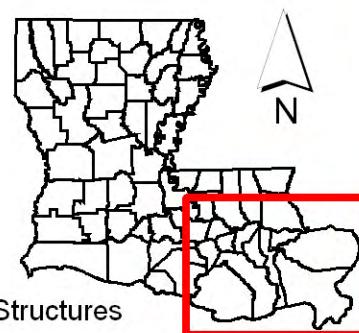
Voluntary Nonstructural Measures

Inundation Zones:

- Water Depths <14 feet, Raise-In-Place of Structures
- Water Depths \geq 14 feet, Buyout of Structures

Velocity Zones:

- Buyout of Structures



NOTE:

"Velocity zones (Vzones): Areas exposed to storm surge velocity, defined by FEMA, closest to shoreline subject to wave action, high-velocity flows, and erosion from a 100-year (1 percent annual chance) flood. Structures in V zones would be eligible for voluntary buyout."

Planning Unit:	1	Alt. No.:	PU1-NS-400	Category:	Coastal Restoration + Nonstructural Measures
Alternative Description:	Sustain coastal landscape through restoration. Implement comprehensive 400-year nonstructural measures.				
Coastal Component:	R2 (pulsed diversions)	Nonstructural Component:		400-yr stand alone measures	
Structural Component:	No new levees or increases in risk reduction level for existing levees.				

Scenario	Future Conditions (Relative Sea Level Rise (RSLR) and Redevelopment Assumptions)	Uncertainty	Results by Scenario with Uncertainty Bands								
			Life Cycle Cost	Population Impacted	Residual Damages	Gross Regional Output Impacted	Employment Impacted	People's Earned Income Impacted	Archeo. Sites Protected	Historic Properties Protected	Historic Districts Protected
			Ann. Equiv. \$ Millions	Ann. Equiv. #	Ann. Equiv. \$ Millions	Ann. Equiv. \$ Millions	Ann. Equiv. #	Ann. Equiv. \$ Millions	# Sites	# Properties	# Districts
1	Low RSLR High Employment Dispersed Population	High	1,761	31,188	167	45	413	13	313	134	51
		Mid		34,018	229	91	642	23	267	130	48
		Low		38,517	463	343	1,760	82	221	126	43
2	High RSLR High Employment Dispersed Population	High	1,773	31,753	169	48	421	13	313	134	51
		Mid		34,583	236	120	722	31	267	129	45
		Low		39,255	482	365	1,818	88	221	123	40
3	Low RSLR Business-as-Usual Compact Population	High	1,949	29,321	166	47	432	13	313	134	51
		Mid		32,274	232	96	692	25	267	130	48
		Low		36,904	466	341	1,810	81	221	126	43
4	High RSLR Business-as-Usual Compact Population	High	1,971	29,708	168	49	439	14	313	134	51
		Mid		32,685	238	122	759	32	267	129	45
		Low		37,391	480	359	1,855	86	221	123	40

Other Results			Wetlands Created/Protected		Scenario 1	Scenario 2	Scenario 3	Scenario 4
Construction Time (years)			After 50 yrs (% of baseline)		106	104	106	104
Direct Wetland Impacts (acres)			After 100 yrs (% of baseline)		104	95	104	95
Indirect Impacts (unitless)			Present Value of Life Cycle Costs (\$ Millions)					
Spatial Integrity (unitless)			Coastal Component		10,666	10,899	10,666	10,899
Non-Federal Share of Present Value of Life Cycle Costs	Scenario	(\$ Millions)		Nonstructural Component		23,873	23,873	27,758
	1 / 2	12,088	12,170	Structural Component		0	0	0
	3 / 4	13,448	13,530	Total Project		34,538	34,772	38,423

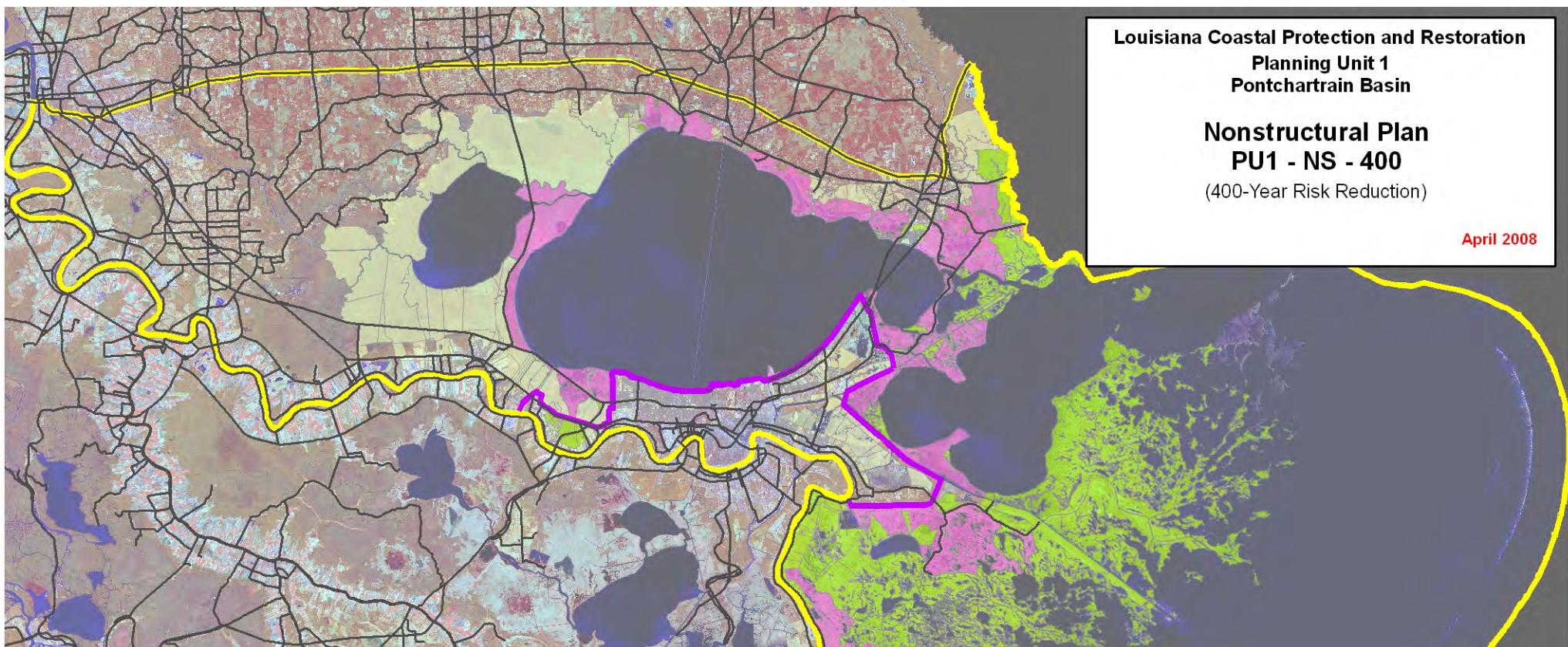
2075 Residual Risk / Damages - Low Uncertainty (\$ Millions)								Planning Unit 1 Nonstructural Plan 400-year Design	
Frequency	Scenario 1		Scenario 2		Scenario 3		Scenario 4		
	No Action	With Proj							
10-year	1,215	246	1,472	283	1,081	162	1,345	186	
100-year	11,935	804	34,000	1,219	9,879	657	26,076	987	
400-year	89,937	5,450	116,204	13,075	62,688	4,087	80,694	9,940	
1,000-year	118,260	61,995	122,423	67,873	81,963	44,770	84,515	48,444	
2,000-year	122,343	106,842	125,886	112,307	84,351	74,337	86,336	77,619	

Note: Present Value costs and Annual Equivalent numbers are calculated for the period from 2010 to 2075 at common base year 2025 using a 4.7/8% Federal discount rate. All dollar metrics are based on 2007 price levels.

**Nonstructural Plan
PU1 - NS - 400**

(400-Year Risk Reduction)

April 2008



Legend

- Primary Roads
- Authorized 100 -Year Levee
- Planning Unit 1

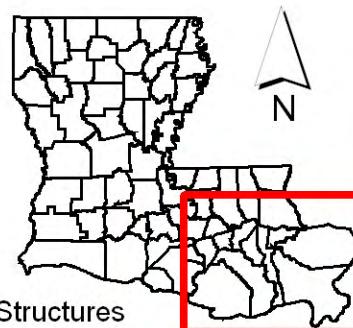
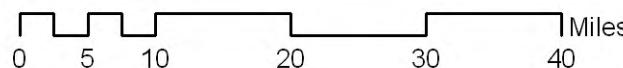
Voluntary Nonstructural Measures

Inundation Zones:

- Water Depths <14 feet, Raise-In-Place of Structures
- Water Depths ≥14 feet, Buyout of Structures

Velocity Zones:

- Buyout of Structures



NOTE:

"Velocity zones (Vzones): Areas exposed to storm surge velocity, defined by FEMA, closest to shoreline subject to wave action, high-velocity flows, and erosion from a 100-year (1 percent annual chance) flood. Structures in Vzones would be eligible for voluntary buyout."

Planning Unit:	1	Alt. No.:	PU1-NS-1000	Category:	Coastal Restoration + Nonstructural Measures
Alternative Description:	Sustain coastal landscape through restoration. Implement comprehensive 1000-year nonstructural measures.				
Coastal Component:	R2 (pulsed diversions)	Nonstructural Component:		1000-yr stand alone measures	
Structural Component:	No new levees or increases in risk reduction level for existing levees.				

Scenario	Future Conditions (Relative Sea Level Rise (RSLR) and Redevelopment Assumptions)	Uncertainty	Results by Scenario with Uncertainty Bands								
			Life Cycle Cost	Population Impacted	Residual Damages	Gross Regional Output Impacted	Employment Impacted	People's Earned Income Impacted	Archeo. Sites Protected	Historic Properties Protected	Historic Districts Protected
			Ann. Equiv. \$ Millions	Ann. Equiv. #	Ann. Equiv. \$ Millions	Ann. Equiv. \$ Millions	Ann. Equiv. #	Ann. Equiv. \$ Millions	# Sites	# Properties	# Districts
1	Low RSLR High Employment Dispersed Population	High	2,535	25,999	151	44	411	13	313	134	51
		Mid		28,761	211	83	613	21	267	130	48
		Low		33,107	384	262	1,370	58	221	126	43
2	High RSLR High Employment Dispersed Population	High	2,547	26,564	153	44	411	13	313	134	51
		Mid		29,326	214	89	629	23	267	129	45
		Low		33,845	391	276	1,414	62	221	123	40
3	Low RSLR Business-as-Usual Compact Population	High	2,595	25,257	152	46	430	13	313	134	51
		Mid		28,162	217	89	664	23	267	130	48
		Low		32,686	395	271	1,436	60	221	126	43
4	High RSLR Business-as-Usual Compact Population	High	2,617	25,644	154	47	430	13	313	134	51
		Mid		28,574	219	94	677	24	267	129	45
		Low		33,173	401	282	1,469	63	221	123	40

Other Results			Wetlands Created/Protected		Scenario 1	Scenario 2	Scenario 3	Scenario 4
Construction Time (years)			After 50 yrs (% of baseline)		106	104	106	104
Direct Wetland Impacts (acres)			After 100 yrs (% of baseline)		104	95	104	95
Indirect Impacts (unitless)			Present Value of Life Cycle Costs (\$ Millions)					
Spatial Integrity (unitless)			Coastal Component		10,666	10,899	10,666	10,899
Non-Federal Share of Present Value of Life Cycle Costs	Scenario	(\$ Millions)		Nonstructural Component		39,066	39,066	40,442
	1 / 2	17,406	17,488	Structural Component		0	0	0
	3 / 4	17,888	17,969	Total Project		49,732	49,966	51,107
2075 Residual Risk / Damages - Low Uncertainty (\$ Millions)								Planning Unit 1 Nonstructural Plan 1000-year Design

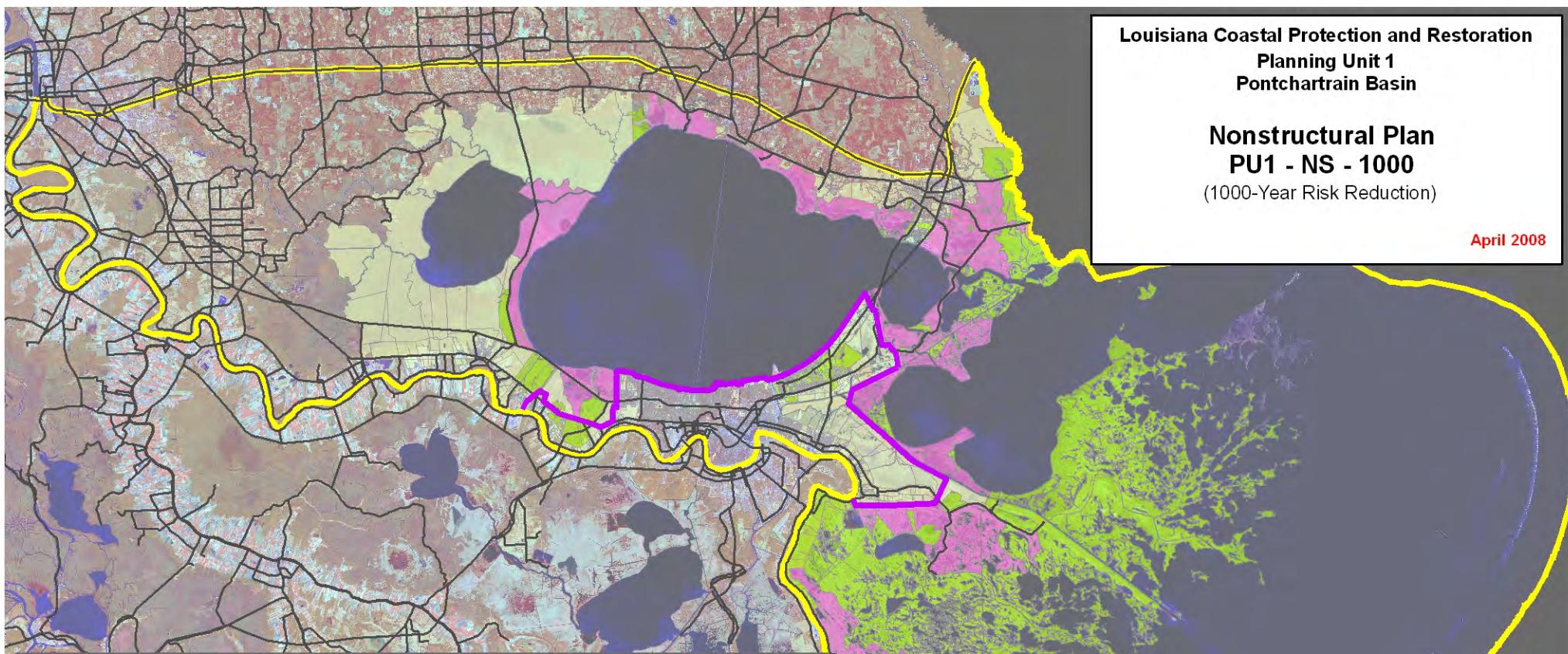
Frequency	Scenario 1		Scenario 2		Scenario 3		Scenario 4		Planning Unit 1 Nonstructural Plan 1000-year Design
	No Action	With Proj							
10-year	1,215	139	1,472	175	1,081	90	1,345	114	
100-year	11,935	618	34,000	721	9,879	514	26,076	600	
400-year	89,937	2,090	116,204	3,188	62,688	1,761	80,694	2,579	
1,000-year	118,260	5,057	122,423	14,723	81,963	3,981	84,515	10,921	
2,000-year	122,343	89,283	125,886	97,921	84,351	63,811	86,336	69,581	

Note: Present Value costs and Annual Equivalent numbers are calculated for the period from 2010 to 2075 at common base year 2025 using a 4.7/8% Federal discount rate. All dollar metrics are based on 2007 price levels.

**Nonstructural Plan
PU1 - NS - 1000**

(1000-Year Risk Reduction)

April 2008



Legend

- Primary Roads
- Authorized 100 -Year Levee
- Planning Unit 1

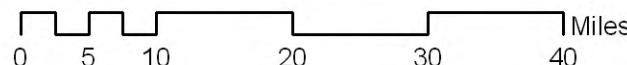
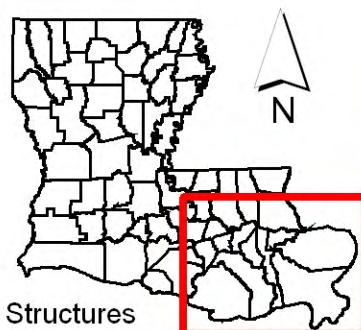
Voluntary Nonstructural Measures

Inundation Zones:

- Water Depths <14 feet, Raise-In-Place of Structures
- Water Depths \geq 14 feet, Buyout of Structures

Velocity Zones:

- Buyout of Structures



NOTE:

"Velocity zones (Vzones): Areas exposed to storm surge velocity, defined by FEMA, closest to shoreline subject to wave action, high-velocity flows, and erosion from a 100-year (1 percent annual chance) flood. Structures in Vzones would be eligible for voluntary buyout."

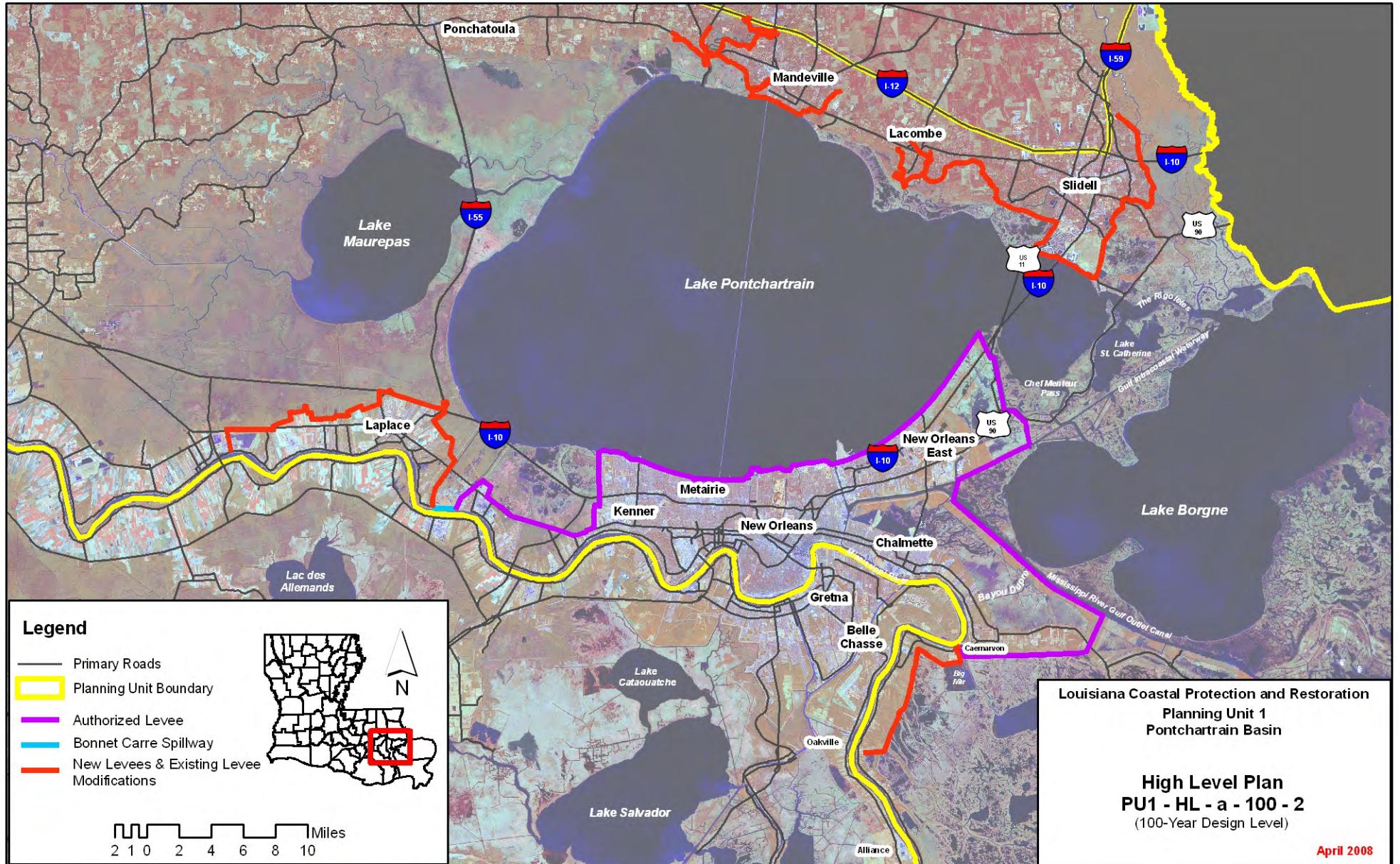
Planning Unit:	1	Alt. No.:	PU1-HL-a-100-2	Category:	Coastal Restoration + Structural Measures
Alternative Description:	Sustain coastal landscape through restoration and construct high level plan providing 100-year design level of risk reduction to Northshore of Lake Pontchartrain, upper Plaquemines, and Laplace.				
Coastal Component:	R2 (pulsed diversions)		Nonstructural Component:		None
Structural Component:	See alternative description above.				

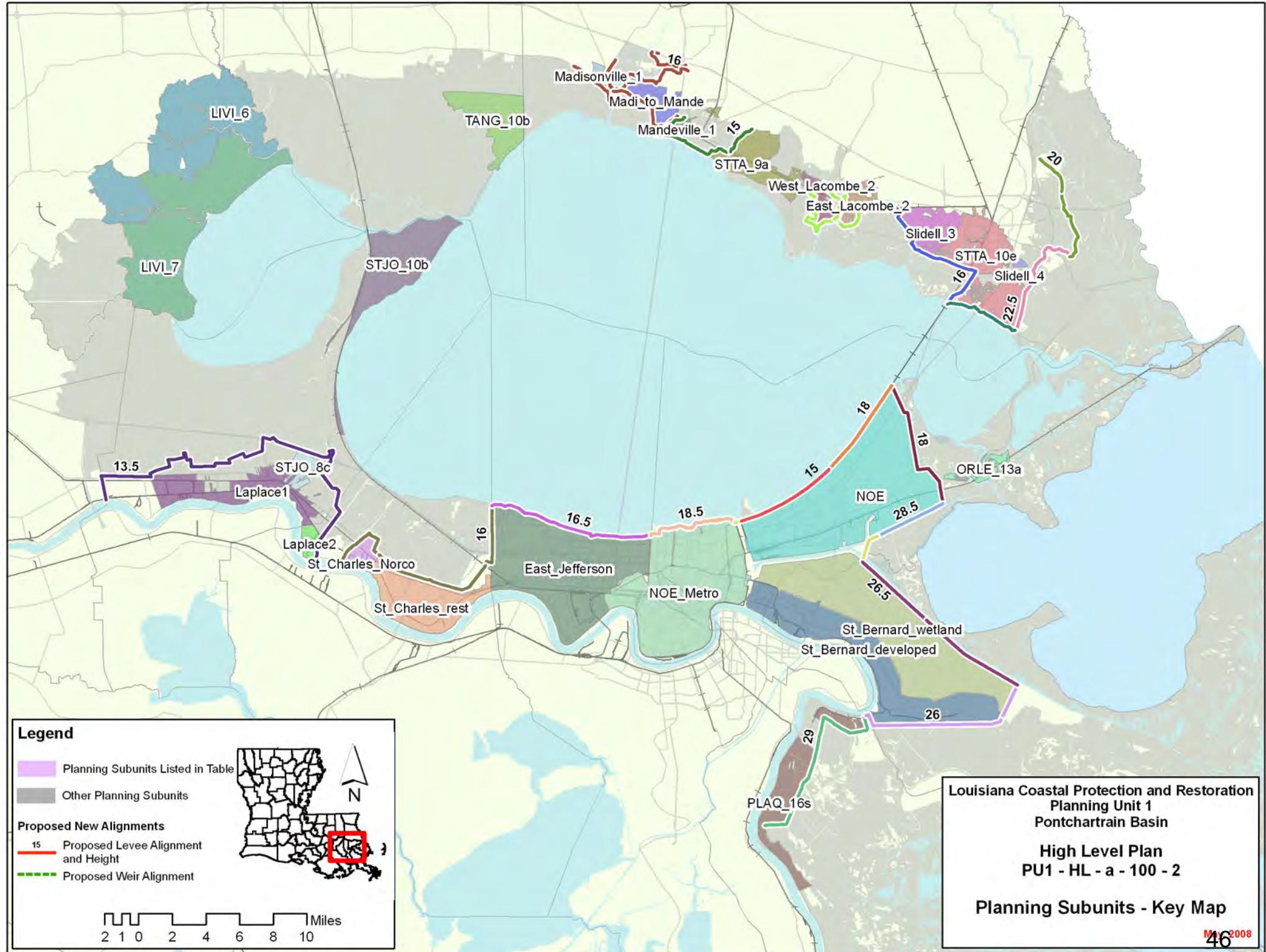
Scenario	Future Conditions (Relative Sea Level Rise (RSLR) and Redevelopment Assumptions)	Uncertainty	Results by Scenario with Uncertainty Bands								
			Life Cycle Cost	Population Impacted	Residual Damages	Gross Regional Output Impacted	Employment Impacted	People's Earned Income Impacted	Archeo. Sites Protected	Historic Properties Protected	Historic Districts Protected
			Ann. Equiv. \$ Millions	Ann. Equiv. #	Ann. Equiv. \$ Millions	Ann. Equiv. \$ Millions	Ann. Equiv. #	Ann. Equiv. \$ Millions	# Sites	# Properties	# Districts
1	Low RSLR High Employment Dispersed Population	High	1,525	31,894	318	164	1,085	46	342	141	51
		Mid		34,647	468	368	1,823	94	312	138	50
		Low		39,955	950	890	4,019	234	282	132	43
2	High RSLR High Employment Dispersed Population	High	1,540	32,301	339	327	1,265	62	342	138	51
		Mid		35,358	516	484	2,141	124	312	135	49
		Low		40,911	1,106	1,176	4,810	309	282	129	41
3	Low RSLR Business-as-Usual Compact Population	High	1,525	27,886	311	161	1,089	45	342	141	51
		Mid		30,543	455	317	1,738	83	312	138	50
		Low		35,503	905	721	3,683	194	282	132	43
4	High RSLR Business-as-Usual Compact Population	High	1,540	28,107	327	188	1,175	53	342	138	51
		Mid		31,025	488	362	1,883	96	312	135	49
		Low		36,126	1,002	965	4,300	254	282	129	41

Other Results			Wetlands Created/Protected		Scenario 1	Scenario 2	Scenario 3	Scenario 4
Construction Time (years)			After 50 yrs (% of baseline)		106	104	106	104
Direct Wetland Impacts (acres)			After 100 yrs (% of baseline)		104	95	104	95
Indirect Impacts (unitless)			Present Value of Life Cycle Costs (\$ Millions)					
Spatial Integrity (unitless)			Coastal Component		10,666	10,899	10,666	10,899
Non-Federal Share of Present Value of Life Cycle Costs	Scenario	(\$ Millions)		Nonstructural Component		0	0	0
	1 / 2	10,764	10,865	Structural Component		19,194	19,251	19,194
	3 / 4	10,764	10,865	Total Project		29,860	30,150	29,860

2075 Residual Risk / Damages - Low Uncertainty (\$ Millions)								Planning Unit 1 Structural Plan High Level Alt 100-year Design	
Frequency	Scenario 1		Scenario 2		Scenario 3		Scenario 4		
	No Action	With Proj							
10-year	1,215	960	1,472	1,039	1,081	823	1,345	901	
100-year	11,935	2,156	34,000	3,965	9,879	1,879	26,076	2,254	
400-year	89,937	52,133	116,204	52,965	62,688	39,023	80,694	39,216	
1,000-year	118,260	72,433	122,423	73,856	81,963	52,486	84,515	52,963	
2,000-year	122,343	116,819	125,886	118,268	84,351	81,010	86,336	81,444	

Note: Present Value costs and Annual Equivalent numbers are calculated for the period from 2010 to 2075 at common base year 2025 using a 4.7/8% Federal discount rate. All dollar metrics are based on 2007 price levels.





Alternative: PU1-HL-a-100-2
Water Surface Elevations (feet - NAVD88 2004.65)

Planning Sub Unit	2010 (Base) Conditions						2060 (Future) Conditions					
	100-yr Event		400-year Event		1,000-yr Event		100-yr Event		400-year Event		1,000-yr Event	
	Without Project	With Project	Without Project	With Project	Without Project	With Project	Without Project	With Project	Without Project	With Project	Without Project	With Project
East_Jefferson	-5.1	-5.1	-1.3	-1.3	4.4	4.4	-2.6	-5.1	16.0	-1.3	16.0	4.4
East_Lacombe_2	10.9	5.2	14.3	15.0	15.9	15.0	17.3	5.2	21.7	15.0	23.6	15.0
Laplace1	9.4	4.4	12.2	13.5	14.0	14.0	12.4	4.4	15.0	13.5	16.8	14.0
Laplace2	8.5	4.4	11.0	13.5	12.8	13.5	11.2	4.4	14.3	13.5	16.2	13.5
LIVI_6	7.3	7.3	9.7	9.7	11.1	11.1	10.3	9.9	12.8	12.3	13.9	13.7
LIVI_7	7.5	7.5	9.7	9.7	10.9	10.9	11.0	10.1	13.1	12.3	14.4	13.5
Madi_to_Mande	11.0	5.9	13.1	13.1	14.3	16.0	13.8	5.9	16.7	13.1	18.3	16.0
Madisonville_1	11.7	6.4	14.6	16.0	16.1	16.0	13.5	6.4	15.8	16.0	16.9	16.0
Mandeville_1	11.0	6.8	13.1	15.0	14.3	15.0	14.9	6.8	19.1	15.0	21.4	15.0
NOE	-5.8	-5.8	0.5	0.5	10.9	10.9	-0.1	-5.8	16.0	0.5	16.0	10.9
NOE_Metro	-5.1	-5.1	-4.8	-4.8	-3.0	-3.0	-5.0	-5.1	16.0	-4.8	16.0	-3.0
ORLE_13a	14.6	14.6	17.8	17.8	19.4	19.4	17.9	17.2	21.5	20.4	23.8	22.0
PLAQ_16s	19.2	0.4	25.3	11.3	30.0	18.0	21.4	0.4	27.8	11.3	31.8	18.0
Slidell_3	11.5	4.6	15.1	16.5	16.8	16.5	13.4	4.6	16.8	16.5	18.5	16.5
Slidell_4	14.1	6.2	18.3	16.5	20.4	16.5	20.5	6.2	24.3	16.5	26.5	16.5
St_Bernard_developed	-0.1	-0.1	4.3	4.3	10.6	10.6	2.3	-0.1	16.0	4.3	16.0	10.6
St_Bernard_wetland	2.4	2.4	5.2	5.2	10.6	10.6	4.5	2.4	16.0	5.2	16.0	10.6
St_Charles_Norco	4.4	4.4	16.0	16.0	16.0	16.0	11.5	4.4	17.3	16.0	18.6	16.0
St_Charles_rest	2.1	2.1	16.0	16.0	16.0	16.0	11.5	2.1	17.3	16.0	18.6	16.0
STJO_10b	10.6	10.6	12.9	12.9	14.1	14.1	13.3	13.2	15.6	15.5	16.7	16.7
STJO_8c	9.4	4.4	12.2	13.5	14.0	14.0	12.7	4.4	15.4	13.5	17.2	14.0
STTA_10e	12.2	4.6	16.2	16.5	18.2	16.5	13.3	4.6	16.7	16.5	18.6	16.5
STTA_9a	10.4	10.4	12.7	12.7	14.0	14.0	13.2	13.0	15.6	15.3	17.5	16.6
TANG_10b	11.0	11.0	13.6	13.6	15.0	15.0	13.7	13.6	16.3	16.2	17.8	17.6
West_Lacombe_2	10.5	4.1	13.5	15.0	15.0	15.0	13.2	4.1	15.8	15.0	17.3	15.0
Evaluation Parameters	Confidence Level:			90%			Levee Design:			No Friction Waves		
	Future Relative Sea Level Rise:			2.6 feet			Levee Overtopping:			No Friction Waves		

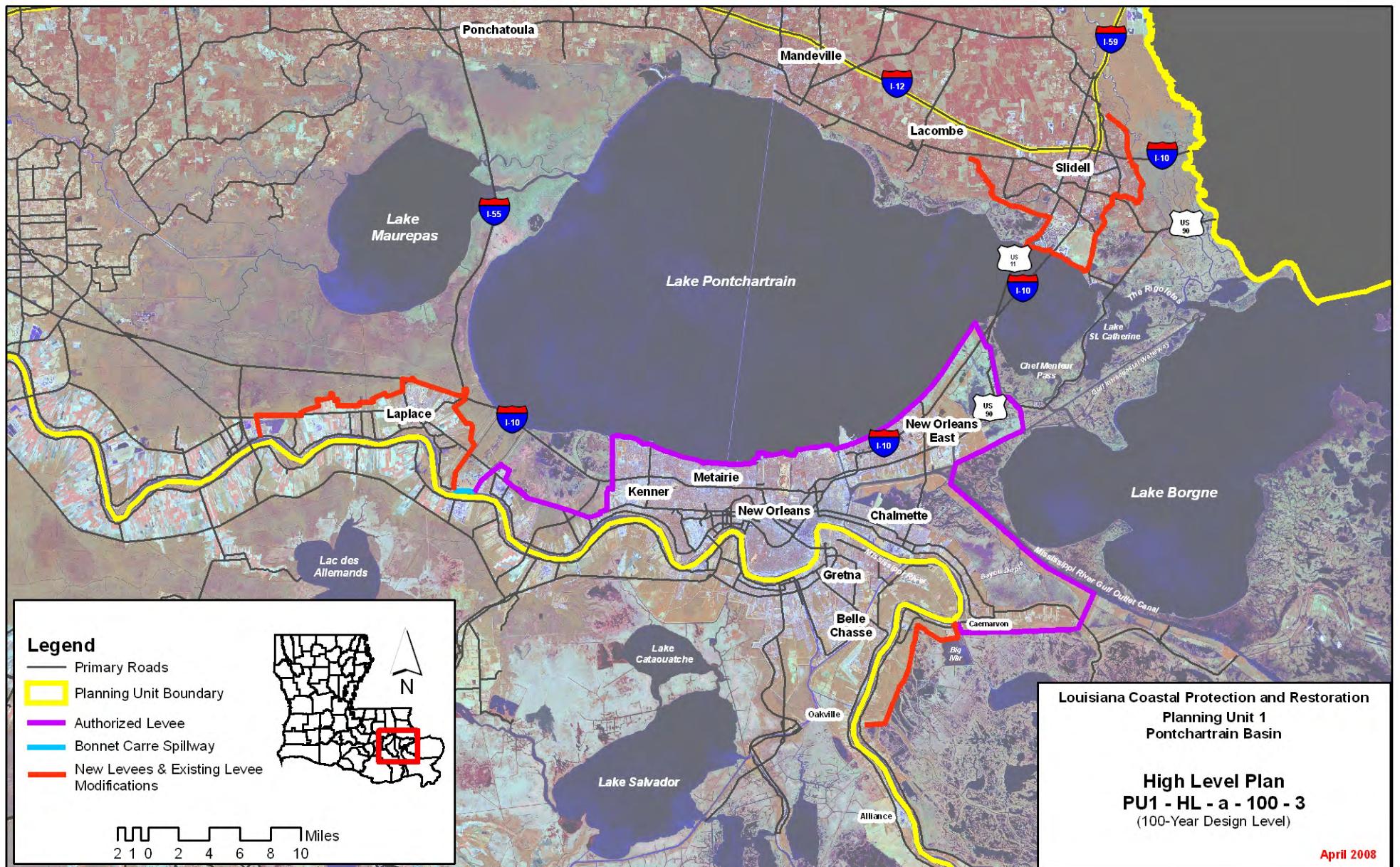
Planning Unit:	1	Alt. No.:	PU1-HL-a-100-3	Category:	Coastal Restoration + Structural Measures
Alternative Description:	Sustain coastal landscape through restoration and construct high level plan providing 100-year design level of risk reduction to Laplace, upper Plaquemines, and Slidell.				
Coastal Component:	R2 (pulsed diversions)		Nonstructural Component:		None
Structural Component:	See alternative description above.				

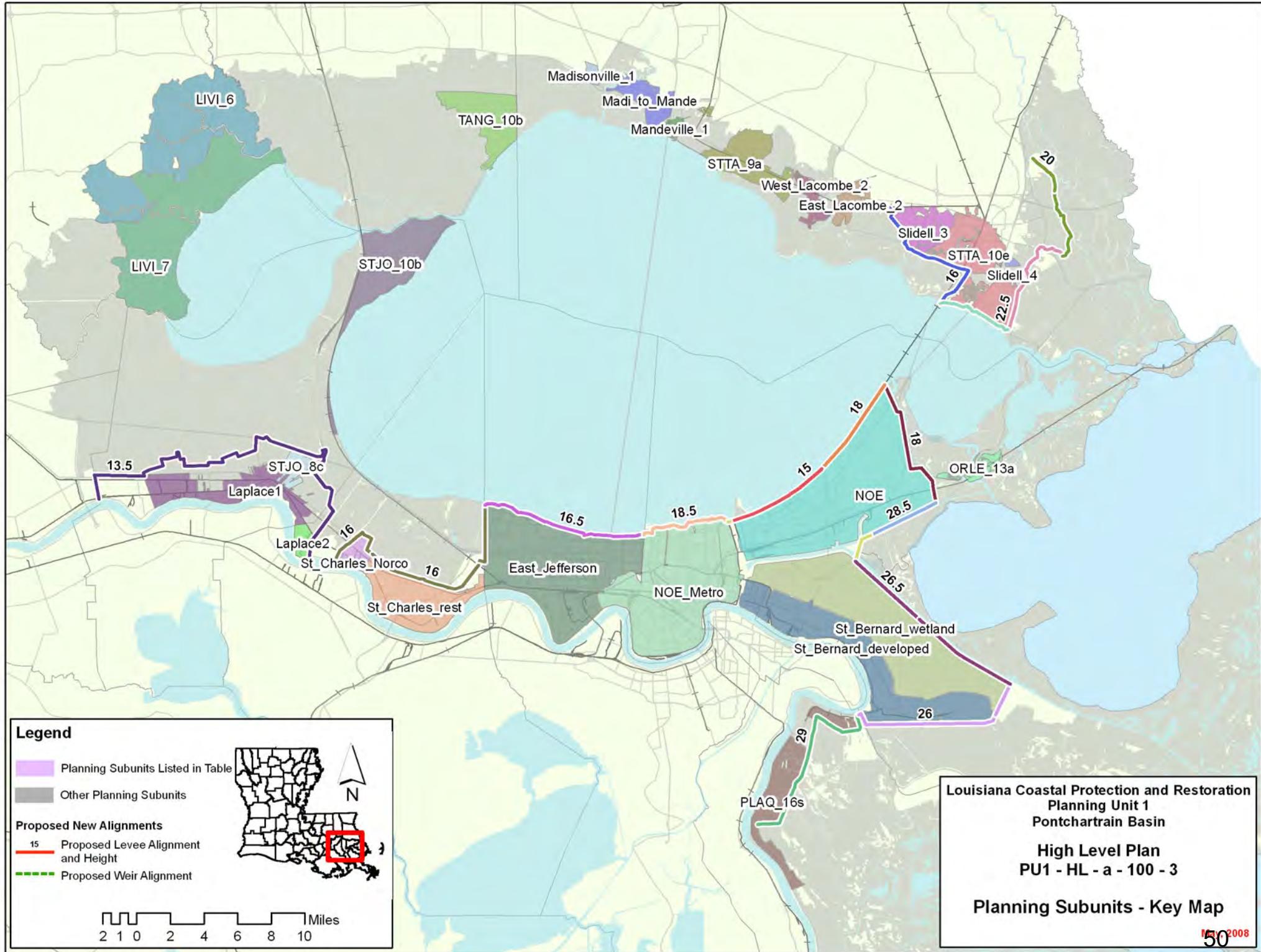
Scenario	Future Conditions (Relative Sea Level Rise (RSLR) and Redevelopment Assumptions)	Uncertainty	Results by Scenario with Uncertainty Bands								
			Life Cycle Cost	Population Impacted	Residual Damages	Gross Regional Output Impacted	Employment Impacted	People's Earned Income Impacted	Archeo. Sites Protected	Historic Properties Protected	Historic Districts Protected
			Ann. Equiv. \$ Millions	Ann. Equiv. #	Ann. Equiv. \$ Millions	Ann. Equiv. \$ Millions	Ann. Equiv. #	Ann. Equiv. \$ Millions	# Sites	# Properties	# Districts
1	Low RSLR High Employment Dispersed Population	High	1,356	32,157	326	169	1,101	47	335	137	51
		Mid		35,012	479	375	1,853	96	305	133	50
		Low		40,309	961	902	4,058	237	275	126	43
2	High RSLR High Employment Dispersed Population	High	1,370	32,670	349	250	1,306	66	335	134	51
		Mid		35,824	531	503	2,201	129	305	128	48
		Low		41,369	1,125	1,198	4,884	315	275	124	40
3	Low RSLR Business-as-Usual Compact Population	High	1,356	28,051	320	165	1,106	46	335	137	51
		Mid		30,784	467	324	1,761	85	305	133	50
		Low		35,750	917	729	3,704	195	275	126	43
4	High RSLR Business-as-Usual Compact Population	High	1,370	28,342	337	197	1,204	55	335	134	51
		Mid		31,336	502	377	1,937	101	305	128	48
		Low		36,442	1,018	983	4,360	259	275	124	40

Other Results			Wetlands Created/Protected		Scenario 1	Scenario 2	Scenario 3	Scenario 4
Construction Time (years)			After 50 yrs (% of baseline)		106	104	106	104
Direct Wetland Impacts (acres)			After 100 yrs (% of baseline)		104	95	104	95
Indirect Impacts (unitless)			Present Value of Life Cycle Costs (\$ Millions)					
Spatial Integrity (unitless)			Coastal Component		10,666	10,899	10,666	10,899
Non-Federal Share of Present Value of Life Cycle Costs	Scenario	(\$ Millions)		Nonstructural Component		0	0	0
	1 / 2	9,515	9,608	Structural Component		15,893	15,928	15,893
	3 / 4	9,515	9,608	Total Project		26,559	26,827	26,559

2075 Residual Risk / Damages - Low Uncertainty (\$ Millions)								Planning Unit 1 Structural Plan High Level Alt 100-year Design	
Frequency	Scenario 1		Scenario 2		Scenario 3		Scenario 4		
	No Action	With Proj							
10-year	1,215	1,011	1,472	1,120	1,081	873	1,345	981	
100-year	11,935	2,398	34,000	4,571	9,879	2,116	26,076	2,717	
400-year	89,937	52,213	116,204	53,587	62,688	39,049	80,694	39,536	
1,000-year	118,260	72,825	122,423	75,020	81,963	52,668	84,515	53,491	
2,000-year	122,343	117,664	125,886	120,372	84,351	81,362	86,336	82,565	

Note: Present Value costs and Annual Equivalent numbers are calculated for the period from 2010 to 2075 at common base year 2025 using a 4.7/8% Federal discount rate. All dollar metrics are based on 2007 price levels.





Alternative: PU1-HL-a-100-3
Water Surface Elevations (feet - NAVD88 2004.65)

Planning Sub Unit	2010 (Base) Conditions						2060 (Future) Conditions					
	100-yr Event		400-year Event		1,000-yr Event		100-yr Event		400-year Event		1,000-yr Event	
	Without Project	With Project	Without Project	With Project	Without Project	With Project	Without Project	With Project	Without Project	With Project	Without Project	With Project
East_Jefferson	-5.1	-5.1	-1.3	-1.3	4.4	4.4	-2.6	-5.1	16.0	-1.3	16.0	4.4
East_Lacombe_2	10.9	10.9	14.3	14.3	15.9	15.9	17.3	13.5	21.7	16.9	23.6	18.5
Laplace1	9.4	4.4	12.2	13.5	14.0	14.0	12.4	4.4	15.0	13.5	16.8	14.0
Laplace2	8.5	4.4	11.0	13.5	12.8	13.5	11.2	4.4	14.3	13.5	16.2	13.5
LIVI_6	7.3	7.3	9.7	9.7	11.1	11.1	10.3	9.9	12.8	12.3	13.9	13.7
LIVI_7	7.5	7.5	9.7	9.7	10.9	10.9	11.0	10.1	13.1	12.3	14.4	13.5
Madi_to_Mande	11.0	11.0	13.1	13.1	14.3	14.3	13.8	13.6	16.7	15.7	18.3	16.9
Madisonville_1	11.7	11.7	14.6	14.6	16.1	16.1	13.5	14.3	15.8	17.2	16.9	18.7
Mandeville_1	11.0	11.0	13.1	13.1	14.3	14.3	14.9	13.6	19.1	15.7	21.4	16.9
NOE	-5.8	-5.8	0.5	0.5	10.9	10.9	-0.1	-5.8	16.0	0.5	16.0	10.9
NOE_Metro	-5.1	-5.1	-4.8	-4.8	-3.0	-3.0	-5.0	-5.1	16.0	-4.8	16.0	-3.0
ORLE_13a	14.6	14.6	17.8	17.8	19.4	19.4	17.9	17.2	21.5	20.4	23.8	22.0
PLAQ_16s	19.2	0.4	25.3	11.3	30.0	18.0	21.4	0.4	27.8	11.3	31.8	18.0
Slidell_3	11.5	4.6	15.1	16.5	16.8	16.5	13.4	4.6	16.8	16.5	18.5	16.5
Slidell_4	14.1	6.2	18.3	16.5	20.4	16.5	20.5	6.2	24.3	16.5	26.5	16.5
St_Bernard_developed	-0.1	-0.1	4.3	4.3	10.6	10.6	2.3	-0.1	16.0	4.3	16.0	10.6
St_Bernard_wetland	2.4	2.4	5.2	5.2	10.6	10.6	4.5	2.4	16.0	5.2	16.0	10.6
St_Charles_Norco	4.4	4.4	16.0	16.0	16.0	16.0	11.5	4.4	17.3	16.0	18.6	16.0
St_Charles_rest	2.1	2.1	16.0	16.0	16.0	16.0	11.5	2.1	17.3	16.0	18.6	16.0
STJO_10b	10.6	10.6	12.9	12.9	14.1	14.1	13.3	13.2	15.6	15.5	16.7	16.7
STJO_8c	9.4	4.4	12.2	13.5	14.0	14.0	12.7	4.4	15.4	13.5	17.2	14.0
STTA_10e	12.2	4.6	16.2	16.5	18.2	16.5	13.3	4.6	16.7	16.5	18.6	16.5
STTA_9a	10.4	10.4	12.7	12.7	14.0	14.0	13.2	13.0	15.6	15.3	17.5	16.6
TANG_10b	11.0	11.0	13.6	13.6	15.0	15.0	13.7	13.6	16.3	16.2	17.8	17.6
West_Lacombe_2	10.5	10.5	13.5	13.5	15.0	15.0	13.2	13.1	15.8	16.1	17.3	17.6
Evaluation Parameters	Confidence Level:			90%			Levee Design:			No Friction Waves		
	Future Relative Sea Level Rise:			2.6 feet			Levee Overtopping:			No Friction Waves		

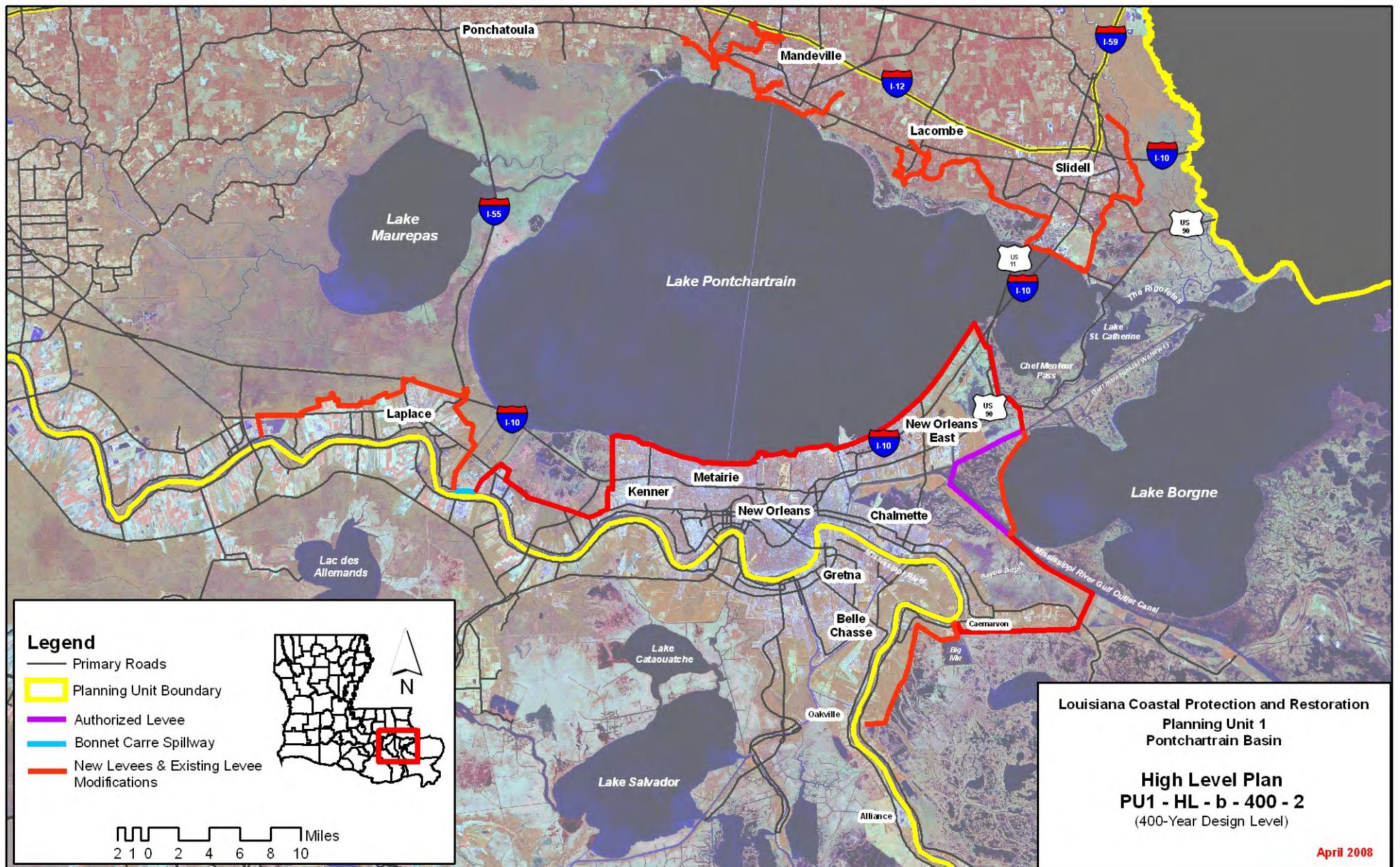
Planning Unit:	1	Alt. No.:	PU1-HL-b-400-2	Category:	Coastal Restoration + Structural Measures
Alternative Description:	Sustain coastal landscape through restoration and construct high level plan providing 400-year design level of risk reduction to the Northshore and Southshore of Lake Pontchartrain, upper Plaquemines, Laplace and Slidell.				
Coastal Component:	R2 (pulsed diversions)		Nonstructural Component:	None	
Structural Component:	See alternative description above.				

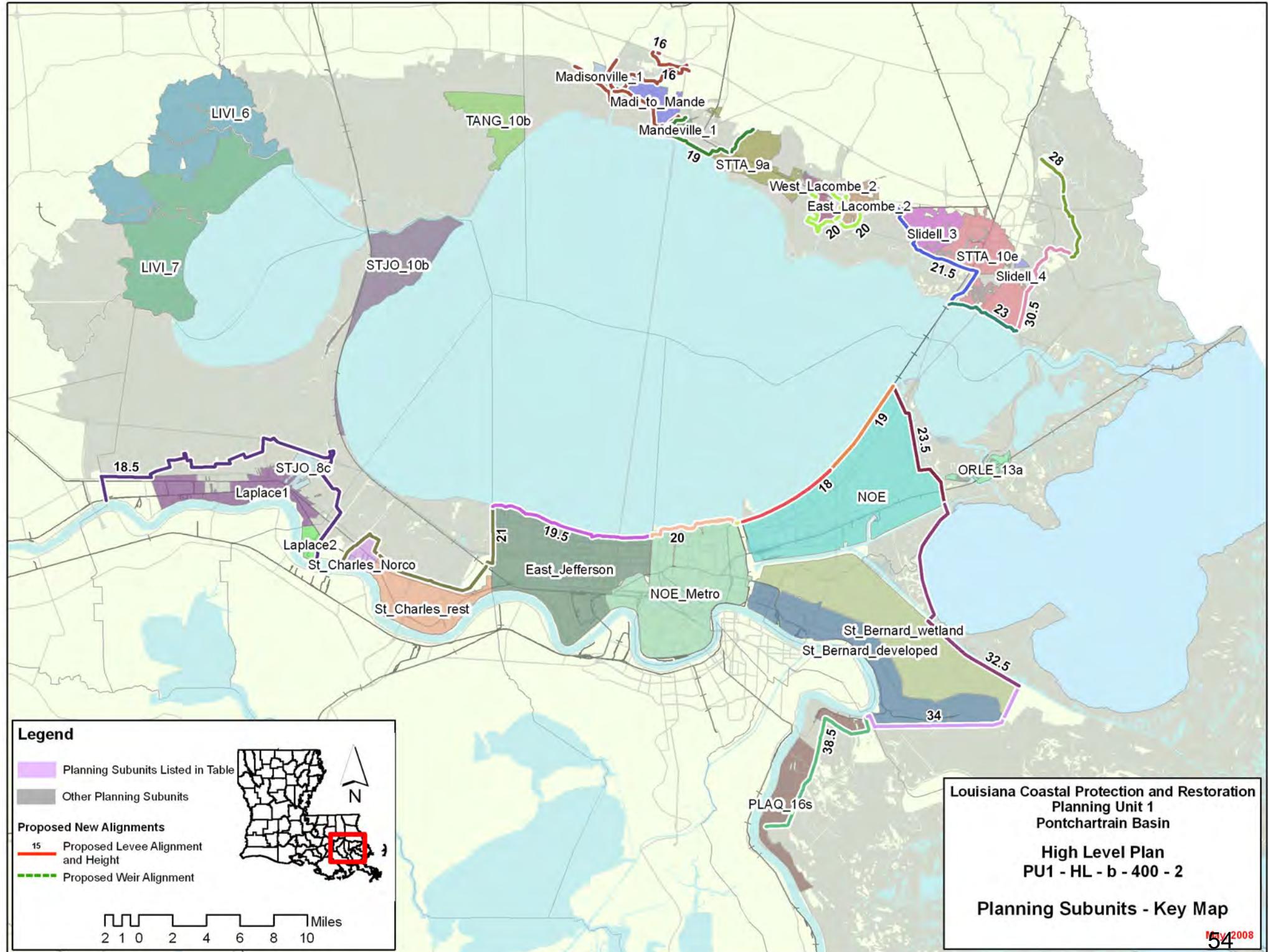
Scenario	Future Conditions (Relative Sea Level Rise (RSLR) and Redevelopment Assumptions)	Uncertainty	Results by Scenario with Uncertainty Bands								
			Life Cycle Cost	Population Impacted	Residual Damages	Gross Regional Output Impacted	Employment Impacted	People's Earned Income Impacted	Archeo. Sites Protected	Historic Properties Protected	Historic Districts Protected
			Ann. Equiv. \$ Millions	Ann. Equiv. #	Ann. Equiv. \$ Millions	Ann. Equiv. \$ Millions	Ann. Equiv. #	Ann. Equiv. \$ Millions	# Sites	# Properties	# Districts
1	Low RSLR High Employment Dispersed Population	High	3,076	32,301	336	176	1,139	49	344	158	52
		Mid		34,414	470	363	1,797	94	314	153	51
		Low		38,544	797	715	3,261	186	284	148	50
2	High RSLR High Employment Dispersed Population	High	3,100	32,792	361	261	1,355	69	344	158	51
		Mid		35,400	533	506	2,193	130	314	150	49
		Low		39,851	1,005	1,138	4,430	298	284	142	46
3	Low RSLR Business-as-Usual Compact Population	High	3,076	28,540	330	173	1,150	48	344	158	52
		Mid		30,596	459	310	1,718	83	314	153	51
		Low		34,436	763	551	2,925	149	284	148	50
4	High RSLR Business-as-Usual Compact Population	High	3,100	28,823	350	211	1,271	60	344	158	51
		Mid		31,293	504	371	1,919	101	314	150	49
		Low		35,325	901	911	3,837	238	284	142	46

Other Results			Wetlands Created/Protected		Scenario 1	Scenario 2	Scenario 3	Scenario 4
Construction Time (years)			After 50 yrs (% of baseline)		106	104	106	104
Direct Wetland Impacts (acres)			After 100 yrs (% of baseline)		104	95	104	95
Indirect Impacts (unitless)			Present Value of Life Cycle Costs (\$ Millions)					
Spatial Integrity (unitless)			Coastal Component		10,666	10,899	10,666	10,899
Non-Federal Share of Present Value of Life Cycle Costs	Scenario	(\$ Millions)		Nonstructural Component		0	0	0
	1 / 2	21,509	21,675	Structural Component		49,569	49,808	49,569
	3 / 4	21,509	21,675	Total Project		60,234	60,707	60,234

2075 Residual Risk / Damages - Low Uncertainty (\$ Millions)								Planning Unit 1 Structural Plan High Level Alt 400-year Design	
Frequency	Scenario 1		Scenario 2		Scenario 3		Scenario 4		
	No Action	With Proj							
10-year	1,215	958	1,472	1,038	1,081	822	1,345	899	
100-year	11,935	1,952	34,000	3,761	9,879	1,695	26,076	2,070	
400-year	89,937	5,474	116,204	6,306	62,688	2,591	80,694	2,784	
1,000-year	118,260	9,482	122,423	10,904	81,963	5,397	84,515	5,875	
2,000-year	122,343	26,064	125,886	27,513	84,351	17,818	86,336	18,252	

Note: Present Value costs and Annual Equivalent numbers are calculated for the period from 2010 to 2075 at common base year 2025 using a 4.7%/8% Federal discount rate. All dollar metrics are based on 2007 price levels.





Alternative: PU1-HL-b-400-2
Water Surface Elevations (feet - NAVD88 2004.65)

Planning Sub Unit	2010 (Base) Conditions						2060 (Future) Conditions					
	100-yr Event		400-year Event		1,000-yr Event		100-yr Event		400-year Event		1,000-yr Event	
	Without Project	With Project	Without Project	With Project	Without Project	With Project	Without Project	With Project	Without Project	With Project	Without Project	With Project
East_Jefferson	-5.1	-5.2	-1.3	-5.0	4.4	-4.4	-2.6	-5.2	16.0	-5.0	16.0	-4.4
East_Lacombe_2	10.9	4.7	14.3	5.2	15.9	6.9	17.3	4.7	21.7	5.2	23.6	6.9
Laplace1	9.4	4.1	12.2	4.5	14.0	7.8	12.4	4.1	15.0	4.5	16.8	7.8
Laplace2	8.5	4.1	11.0	4.5	12.8	7.8	11.2	4.1	14.3	4.5	16.2	7.8
LIVI_6	7.3	7.3	9.7	9.7	11.1	11.1	10.3	9.9	12.8	12.3	13.9	13.7
LIVI_7	7.5	7.5	9.7	9.7	10.9	10.9	11.0	10.1	13.1	12.3	14.4	13.5
Madi_to_Mande	11.0	5.3	13.1	5.9	14.3	7.5	13.8	5.3	16.7	5.9	18.3	7.5
Madisonville_1	11.7	5.6	14.6	6.5	16.1	8.8	13.5	5.6	15.8	6.5	16.9	8.8
Mandeville_1	11.0	5.9	13.1	6.8	14.3	9.4	14.9	5.9	19.1	6.8	21.4	9.4
NOE	-5.8	-6.0	0.5	-5.9	10.9	-5.1	-0.1	-6.0	16.0	-5.9	16.0	-5.1
NOE_Metro	-5.1	-5.2	-4.8	-5.0	-3.0	-4.2	-5.0	-5.2	16.0	-5.0	16.0	-4.2
ORLE_13a	14.6	14.6	17.8	17.8	19.4	19.4	17.9	17.2	21.5	20.4	23.8	22.0
PLAQ_16s	19.2	-0.1	25.3	0.4	30.0	2.0	21.4	-0.1	27.8	0.4	31.8	2.0
Slidell_3	11.5	4.3	15.1	4.6	16.8	5.9	13.4	4.3	16.8	4.6	18.5	5.9
Slidell_4	14.1	6.2	18.3	6.2	20.4	6.2	20.5	6.2	24.3	6.2	26.5	6.2
St_Bernard_developed	-0.1	-0.4	4.3	-0.1	10.6	0.8	2.3	-0.4	16.0	-0.1	16.0	0.8
St_Bernard_wetland	2.4	1.7	5.2	1.8	10.6	2.2	4.5	1.7	16.0	1.8	16.0	2.2
St_Charles_Norco	4.4	3.4	16.0	4.5	16.0	4.5	11.5	3.4	17.3	4.5	18.6	4.5
St_Charles_rest	2.1	1.9	16.0	2.1	16.0	4.2	11.5	1.9	17.3	2.1	18.6	4.2
STJO_10b	10.6	10.6	12.9	12.9	14.1	14.1	13.3	13.2	15.6	15.5	16.7	16.7
STJO_8c	9.4	4.1	12.2	4.5	14.0	7.8	12.7	4.1	15.4	4.5	17.2	7.8
STTA_10e	12.2	4.3	16.2	4.6	18.2	5.9	13.3	4.3	16.7	4.6	18.6	5.9
STTA_9a	10.4	10.4	12.7	12.7	14.0	14.0	13.2	13.0	15.6	15.3	17.5	16.6
TANG_10b	11.0	11.0	13.6	13.6	15.0	15.0	13.7	13.6	16.3	16.2	17.8	17.6
West_Lacombe_2	10.5	3.6	13.5	4.1	15.0	5.9	13.2	3.6	15.8	4.1	17.3	5.9
Evaluation Parameters	Confidence Level:			90%			Levee Design:			No Friction Waves		
	Future Relative Sea Level Rise:			2.6 feet			Levee Overtopping:			No Friction Waves		

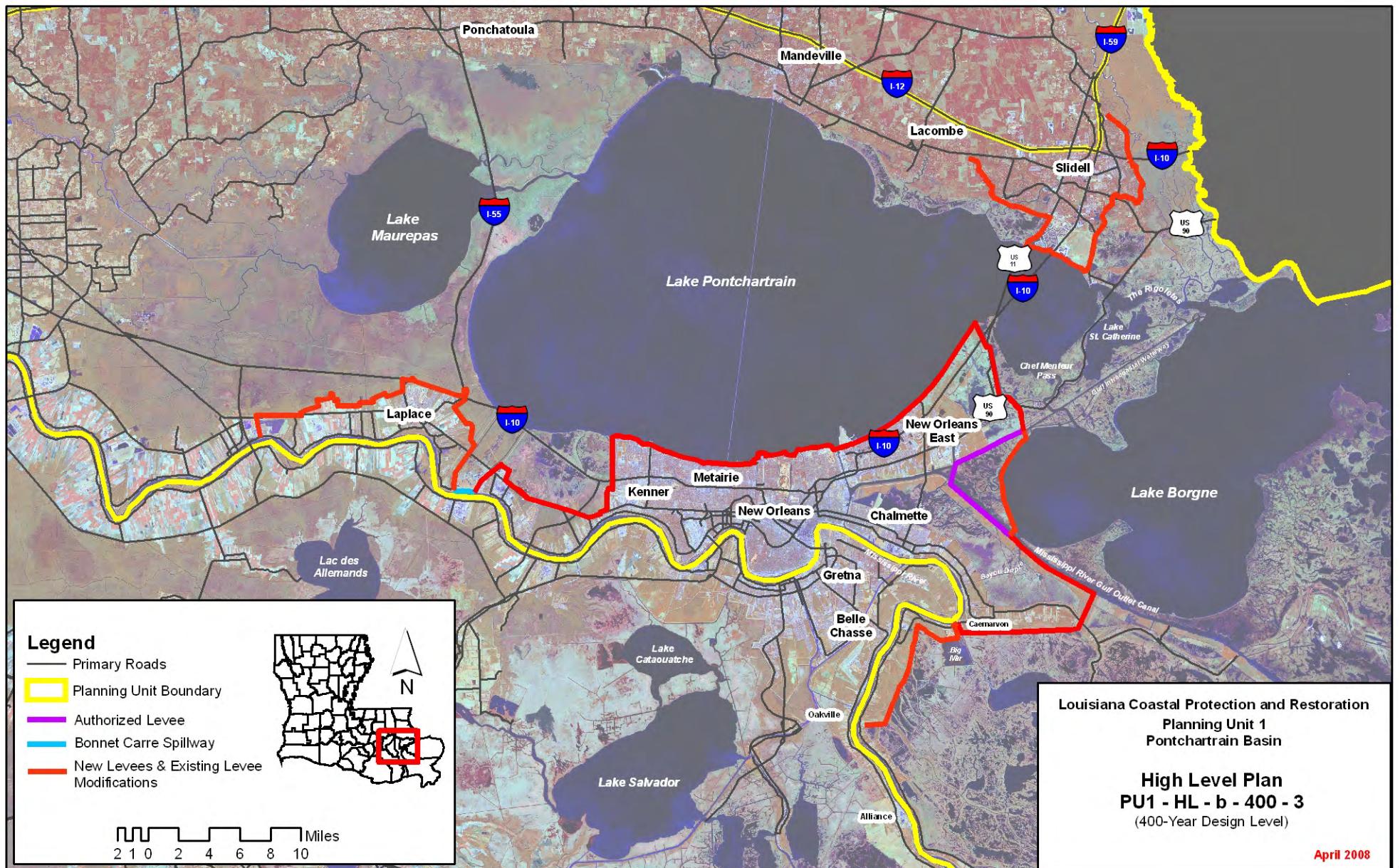
Planning Unit:	1	Alt. No.:	PU1-HL-b-400-3	Category:	Coastal Restoration + Structural Measures
Alternative Description:	Sustain coastal landscape through restoration and construct high level plan providing 400-year design level of risk reduction to Southshore of Lake Pontchartrain, upper Plaquemines, Laplace and Slidell.				
Coastal Component:	R2 (pulsed diversions)		Nonstructural Component:		None
Structural Component:	See alternative description above.				

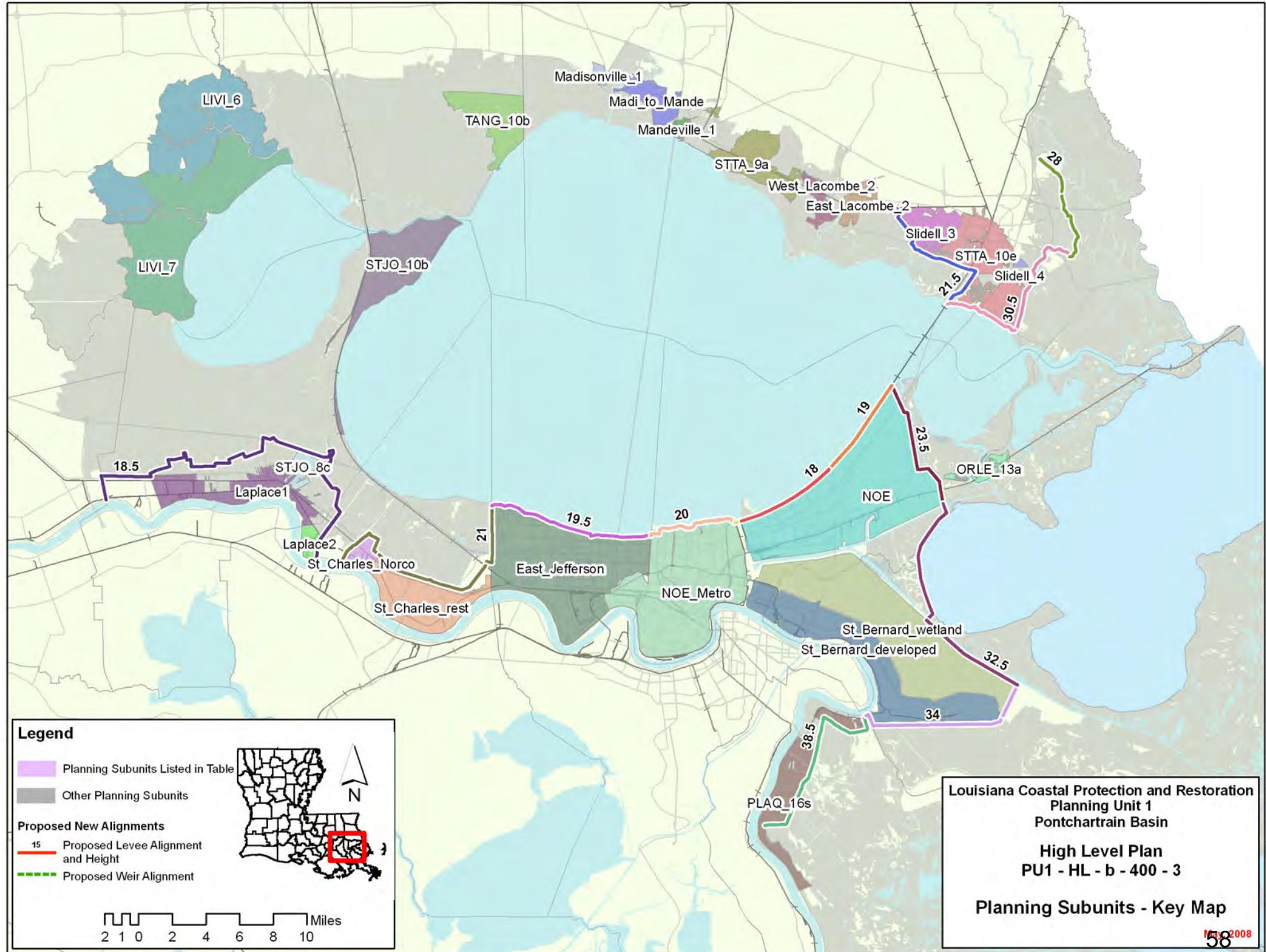
Scenario	Future Conditions (Relative Sea Level Rise (RSLR) and Redevelopment Assumptions)	Uncertainty	Results by Scenario with Uncertainty Bands								
			Life Cycle Cost	Population Impacted	Residual Damages	Gross Regional Output Impacted	Employment Impacted	People's Earned Income Impacted	Archeo. Sites Protected	Historic Properties Protected	Historic Districts Protected
			Ann. Equiv. \$ Millions	Ann. Equiv. #	Ann. Equiv. \$ Millions	Ann. Equiv. \$ Millions	Ann. Equiv. #	Ann. Equiv. \$ Millions	# Sites	# Properties	# Districts
1	Low RSLR High Employment Dispersed Population	High	2,837	32,516	342	179	1,152	49	307	143	51
		Mid		34,727	480	370	1,822	96	307	143	50
		Low		38,940	810	729	3,306	190	277	140	48
2	High RSLR High Employment Dispersed Population	High	2,860	33,092	369	271	1,388	71	337	143	51
		Mid		35,795	546	522	2,243	135	307	141	49
		Low		40,330	1,025	1,160	4,504	304	277	133	45
3	Low RSLR Business-as-Usual Compact Population	High	2,837	28,675	337	177	1,164	49	307	143	51
		Mid		30,806	469	316	1,740	85	307	143	50
		Low		34,720	775	561	2,966	152	277	140	48
4	High RSLR Business-as-Usual Compact Population	High	2,860	29,014	359	218	1,295	61	337	143	51
		Mid		31,559	516	384	1,966	105	307	141	49
		Low		35,665	918	930	3,910	244	277	133	45

Other Results			Wetlands Created/Protected		Scenario 1	Scenario 2	Scenario 3	Scenario 4
Construction Time (years)			After 50 yrs (% of baseline)		106	104	106	104
Direct Wetland Impacts (acres)			After 100 yrs (% of baseline)		104	95	104	95
Indirect Impacts (unitless)			Present Value of Life Cycle Costs (\$ Millions)					
Spatial Integrity (unitless)			Coastal Component		10,666	10,899	10,666	10,899
Non-Federal Share of Present Value of Life Cycle Costs	Scenario	(\$ Millions)		Nonstructural Component		0	0	0
	1 / 2	19,790	19,945	Structural Component		44,895	45,103	44,895
	3 / 4	19,790	19,945	Total Project		55,561	56,002	55,561

2075 Residual Risk / Damages - Low Uncertainty (\$ Millions)								Planning Unit 1 Structural Plan High Level Alt 400-year Design	
Frequency	Scenario 1		Scenario 2		Scenario 3		Scenario 4		
	No Action	With Proj							
10-year	1,215	1,011	1,472	1,120	1,081	873	1,345	981	
100-year	11,935	2,209	34,000	4,382	9,879	1,946	26,076	2,547	
400-year	89,937	6,516	116,204	7,890	62,688	3,270	80,694	3,757	
1,000-year	118,260	11,051	122,423	13,246	81,963	6,320	84,515	7,143	
2,000-year	122,343	28,009	125,886	30,717	84,351	18,776	86,336	19,980	

Note: Present Value costs and Annual Equivalent numbers are calculated for the period from 2010 to 2075 at common base year 2025 using a 4.7/8% Federal discount rate. All dollar metrics are based on 2007 price levels.





Alternative: PU1-HL-b-400-3
Water Surface Elevations (feet - NAVD88 2004.65)

Planning Sub Unit	2010 (Base) Conditions						2060 (Future) Conditions					
	100-yr Event		400-year Event		1,000-yr Event		100-yr Event		400-year Event		1,000-yr Event	
	Without Project	With Project	Without Project	With Project	Without Project	With Project	Without Project	With Project	Without Project	With Project	Without Project	With Project
East_Jefferson	-5.1	-5.2	-1.3	-5.0	4.4	-4.4	-2.6	-5.2	16.0	-5.0	16.0	-4.4
East_Lacombe_2	10.9	10.9	14.3	14.3	15.9	15.9	17.3	13.5	21.7	16.9	23.6	18.5
Laplace1	9.4	4.1	12.2	4.5	14.0	7.8	12.4	4.1	15.0	4.5	16.8	7.8
Laplace2	8.5	4.1	11.0	4.5	12.8	7.8	11.2	4.1	14.3	4.5	16.2	7.8
LIVI_6	7.3	7.3	9.7	9.7	11.1	11.1	10.3	9.9	12.8	12.3	13.9	13.7
LIVI_7	7.5	7.5	9.7	9.7	10.9	10.9	11.0	10.1	13.1	12.3	14.4	13.5
Madi_to_Mande	11.0	11.0	13.1	13.1	14.3	14.3	13.8	13.6	16.7	15.7	18.3	16.9
Madisonville_1	11.7	11.7	14.6	14.6	16.1	16.1	13.5	14.3	15.8	17.2	16.9	18.7
Mandeville_1	11.0	11.0	13.1	13.1	14.3	14.3	14.9	13.6	19.1	15.7	21.4	16.9
NOE	-5.8	-6.0	0.5	-5.7	10.9	-4.2	-0.1	-6.0	16.0	-5.7	16.0	-4.2
NOE_Metro	-5.1	-5.2	-4.8	-5.0	-3.0	-4.2	-5.0	-5.2	16.0	-5.0	16.0	-4.2
ORLE_13a	14.6	14.6	17.8	17.8	19.4	19.4	17.9	17.2	21.5	20.4	23.8	22.0
PLAQ_16s	19.2	-0.1	25.3	0.4	30.0	2.0	21.4	-0.1	27.8	0.4	31.8	2.0
Slidell_3	11.5	4.3	15.1	4.6	16.8	5.9	13.4	4.3	16.8	4.6	18.5	5.9
Slidell_4	14.1	6.2	18.3	6.2	20.4	6.2	20.5	6.2	24.3	6.2	26.5	6.2
St_Bernard_developed	-0.1	-0.4	4.3	-0.1	10.6	0.8	2.3	-0.4	16.0	-0.1	16.0	0.8
St_Bernard_wetland	2.4	2.3	5.2	2.5	10.6	2.8	4.5	2.3	16.0	2.5	16.0	2.8
St_Charles_Norco	4.4	3.4	16.0	4.5	16.0	4.5	11.5	3.4	17.3	4.5	18.6	4.5
St_Charles_rest	2.1	1.9	16.0	2.1	16.0	4.2	11.5	1.9	17.3	2.1	18.6	4.2
STJO_10b	10.6	10.6	12.9	12.9	14.1	14.1	13.3	13.2	15.6	15.5	16.7	16.7
STJO_8c	9.4	4.1	12.2	4.5	14.0	7.8	12.7	4.1	15.4	4.5	17.2	7.8
STTA_10e	12.2	4.3	16.2	4.6	18.2	5.9	13.3	4.3	16.7	4.6	18.6	5.9
STTA_9a	10.4	10.4	12.7	12.7	14.0	14.0	13.2	13.0	15.6	15.3	17.5	16.6
TANG_10b	11.0	11.0	13.6	13.6	15.0	15.0	13.7	13.6	16.3	16.2	17.8	17.6
West_Lacombe_2	10.5	10.5	13.5	13.5	15.0	15.0	13.2	13.1	15.8	16.1	17.3	17.6
Evaluation Parameters	Confidence Level:			90%			Levee Design:			No Friction Waves		
	Future Relative Sea Level Rise:			2.6 feet			Levee Overtopping:			No Friction Waves		

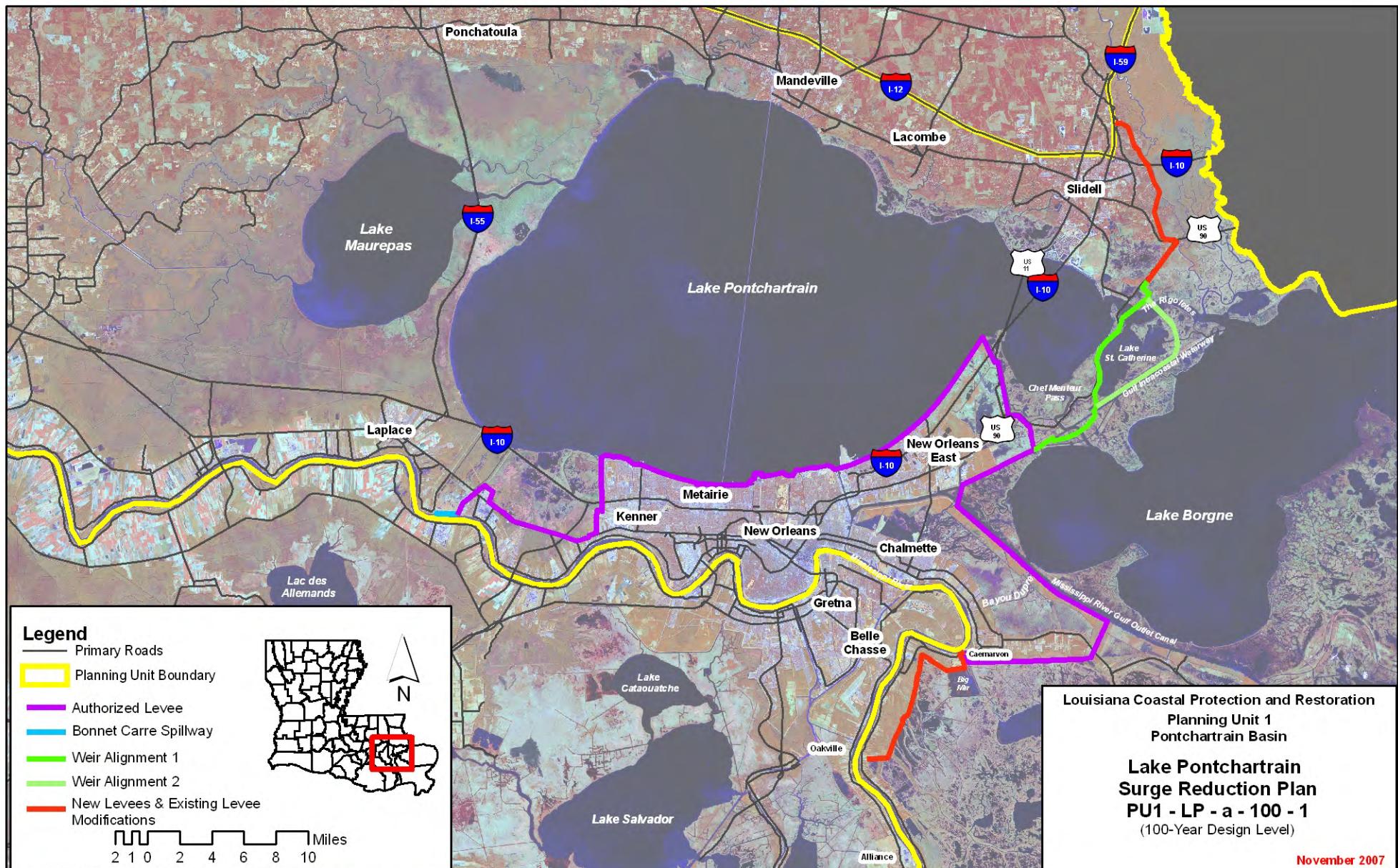
Planning Unit:	1	Alt. No.:	PU1-LP-a-100-1	Category:	Coastal Restoration + Structural Measures				
Alternative Description:	Sustain coastal landscape through restoration and construct barrier-weir and levees to reduce risk to the Lake Pontchartrain area. Raise upper Plaquemines levees to 100-year level of risk reduction.								
Coastal Component:	R2 (pulsed diversions)			Nonstructural Component:			None		
Structural Component:	See alternative description above.								

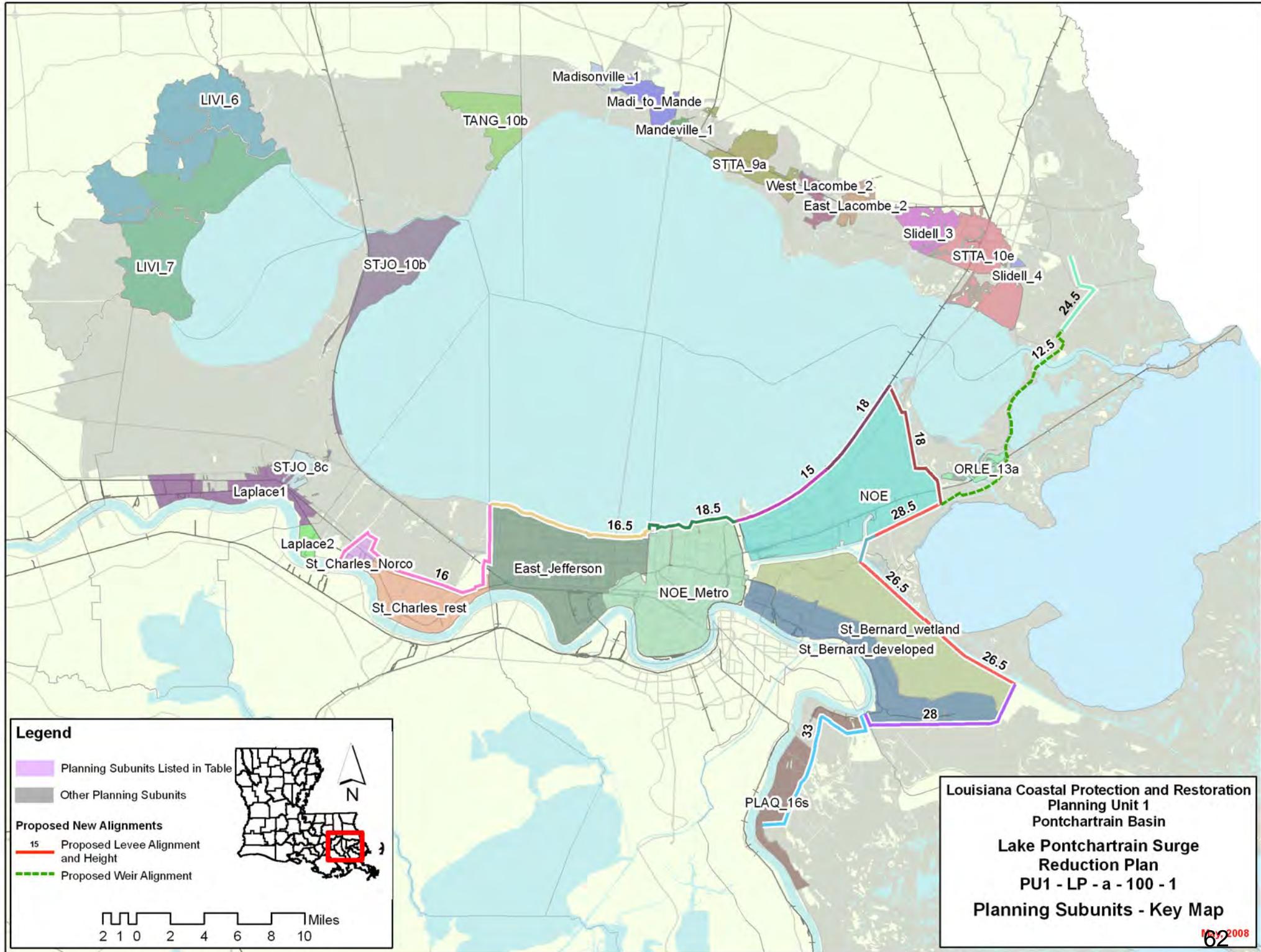
Scenario	Future Conditions (Relative Sea Level Rise (RSLR) and Redevelopment Assumptions)	Uncertainty	Results by Scenario with Uncertainty Bands								
			Life Cycle Cost	Population Impacted	Residual Damages	Gross Regional Output Impacted	Employment Impacted	People's Earned Income Impacted	Archeo. Sites Protected	Historic Properties Protected	Historic Districts Protected
			Ann. Equiv. \$ Millions	Ann. Equiv. #	Ann. Equiv. \$ Millions	Ann. Equiv. \$ Millions	Ann. Equiv. #	Ann. Equiv. \$ Millions	# Sites	# Properties	# Districts
1	Low RSLR High Employment Dispersed Population	High	903	32,794	354	221	1,285	61	325	140	51
		Mid		35,620	511	411	1,991	107	295	133	50
		Low		40,916	904	823	3,715	214	265	127	43
2	High RSLR High Employment Dispersed Population	High	921	33,978	391	312	1,537	85	325	136	51
		Mid		37,219	582	551	2,379	142	295	129	45
		Low		42,568	1,096	1,237	4,808	319	265	123	40
3	Low RSLR Business-as-Usual Compact Population	High	903	29,002	341	187	1,197	53	325	140	51
		Mid		31,669	487	328	1,840	90	295	133	50
		Low		36,632	849	627	3,335	172	265	127	43
4	High RSLR Business-as-Usual Compact Population	High	921	29,765	370	230	1,347	67	325	136	51
		Mid		32,824	542	397	2,072	111	295	129	45
		Low		37,791	991	962	4,173	255	265	123	40

Other Results			Wetlands Created/Protected		Scenario 1	Scenario 2	Scenario 3	Scenario 4
Construction Time (years)			After 50 yrs (% of baseline)		106	104	106	104
Direct Wetland Impacts (acres)			After 100 yrs (% of baseline)		104	95	104	95
Indirect Impacts (unitless)			Present Value of Life Cycle Costs (\$ Millions)					
Spatial Integrity (unitless)			Coastal Component		10,666	10,899	10,666	10,899
Non-Federal Share of Present Value of Life Cycle Costs	Scenario	(\$ Millions)		Nonstructural Component		0	0	0
	1 / 2	6,255	6,375	Structural Component		7,024	7,132	7,024
	3 / 4	6,255	6,375	Total Project		17,690	18,031	17,690

2075 Residual Risk / Damages - Low Uncertainty (\$ Millions)								Planning Unit 1 Structural Plan Lake Pontchartrain Surge Reduction Alt 100-year Design	
Frequency	Scenario 1		Scenario 2		Scenario 3		Scenario 4		
	No Action	With Proj							
10-year	1,215	1,034	1,472	1,211	1,081	906	1,345	1,074	
100-year	11,935	4,200	34,000	6,145	9,879	3,194	26,076	4,731	
400-year	89,937	19,737	116,204	24,112	62,688	13,418	80,694	16,202	
1,000-year	118,260	54,345	122,423	58,424	81,963	37,801	84,515	40,213	
2,000-year	122,343	108,114	125,886	111,525	84,351	75,417	86,336	77,362	

Note: Present Value costs and Annual Equivalent numbers are calculated for the period from 2010 to 2075 at common base year 2025 using a 4.7/8% Federal discount rate. All dollar metrics are based on 2007 price levels.





Alternative: PU1-LP-a-100-1
Water Surface Elevations (feet - NAVD88 2004.65)

Planning Sub Unit	2010 (Base) Conditions						2060 (Future) Conditions					
	100-yr Event		400-year Event		1,000-yr Event		100-yr Event		400-year Event		1,000-yr Event	
	Without Project	With Project	Without Project	With Project	Without Project	With Project	Without Project	With Project	Without Project	With Project	Without Project	With Project
East_Jefferson	-5.1	-5.3	-1.3	-4.7	4.4	-2.1	-2.6	-5.3	16.0	-4.7	16.0	-2.1
East_Lacombe_2	10.9	7.2	14.3	11.1	15.9	13.2	17.3	9.8	21.7	13.7	23.6	15.8
Laplace1	9.4	6.1	12.2	10.5	14.0	13.6	12.4	8.7	15.0	13.1	16.8	16.2
Laplace2	8.5	9.4	11.0	11.9	12.8	13.4	11.2	12.0	14.3	14.5	16.2	16.0
LIVI_6	7.3	4.1	9.7	5.2	11.1	6.1	10.3	6.7	12.8	7.8	13.9	8.7
LIVI_7	7.5	5.5	9.7	6.9	10.9	7.8	11.0	8.1	13.1	9.5	14.4	10.4
Madi_to_Mande	11.0	11.5	13.1	12.5	14.3	13.3	13.8	14.1	16.7	15.1	18.3	15.9
Madisonville_1	11.7	10.1	14.6	14.9	16.1	27.3	13.5	12.7	15.8	17.5	16.9	29.9
Mandeville_1	11.0	11.5	13.1	12.5	14.3	13.3	14.9	14.1	19.1	15.1	21.4	15.9
NOE	-5.8	-5.9	0.5	-4.0	10.9	-0.2	-0.1	-5.9	16.0	-4.0	16.0	-0.2
NOE_Metro	-5.1	-5.2	-4.8	-5.1	-3.0	-5.1	-5.0	-5.2	16.0	-5.1	16.0	-5.1
ORLE_13a	14.6	16.4	17.8	21.8	19.4	26.5	17.9	19.0	21.5	24.4	23.8	29.1
PLAQ_16s	19.2	17.8	25.3	25.7	30.0	29.9	21.4	20.4	27.8	28.3	31.8	32.5
Slidell_3	11.5	8.5	15.1	12.8	16.8	14.9	13.4	11.1	16.8	15.4	18.5	17.5
Slidell_4	14.1	10.0	18.3	16.4	20.4	22.2	20.5	12.6	24.3	19.0	26.5	24.8
St_Bernard_developed	-0.1	-0.1	4.3	4.8	10.6	12.5	2.3	-0.1	16.0	4.8	16.0	12.5
St_Bernard_wetland	2.4	2.4	5.2	5.4	10.6	12.5	4.5	2.4	16.0	5.4	16.0	12.5
St_Charles_Norco	4.4	3.4	16.0	4.6	16.0	16.0	11.5	3.4	17.3	4.6	18.6	16.0
St_Charles_rest	2.1	1.9	16.0	4.6	16.0	16.0	11.5	1.9	17.3	4.6	18.6	16.0
STJO_10b	10.6	8.9	12.9	11.4	14.1	12.8	13.3	11.5	15.6	14.0	16.7	15.4
STJO_8c	9.4	6.1	12.2	10.5	14.0	13.6	12.7	8.7	15.4	13.1	17.2	16.2
STTA_10e	12.2	8.8	16.2	13.1	18.2	15.3	13.3	11.4	16.7	15.7	18.6	17.9
STTA_9a	10.4	8.0	12.7	9.4	14.0	10.4	13.2	10.6	15.6	12.0	17.5	13.0
TANG_10b	11.0	7.7	13.6	10.6	15.0	12.1	13.7	10.3	16.3	13.2	17.8	14.7
West_Lacombe_2	10.5	7.4	13.5	10.0	15.0	11.5	13.2	10.0	15.8	12.6	17.3	14.1
Evaluation Parameters	Confidence Level:			90%			Levee Design:			No Friction Waves		
	Future Relative Sea Level Rise:			2.6 feet			Levee Overtopping:			No Friction Waves		

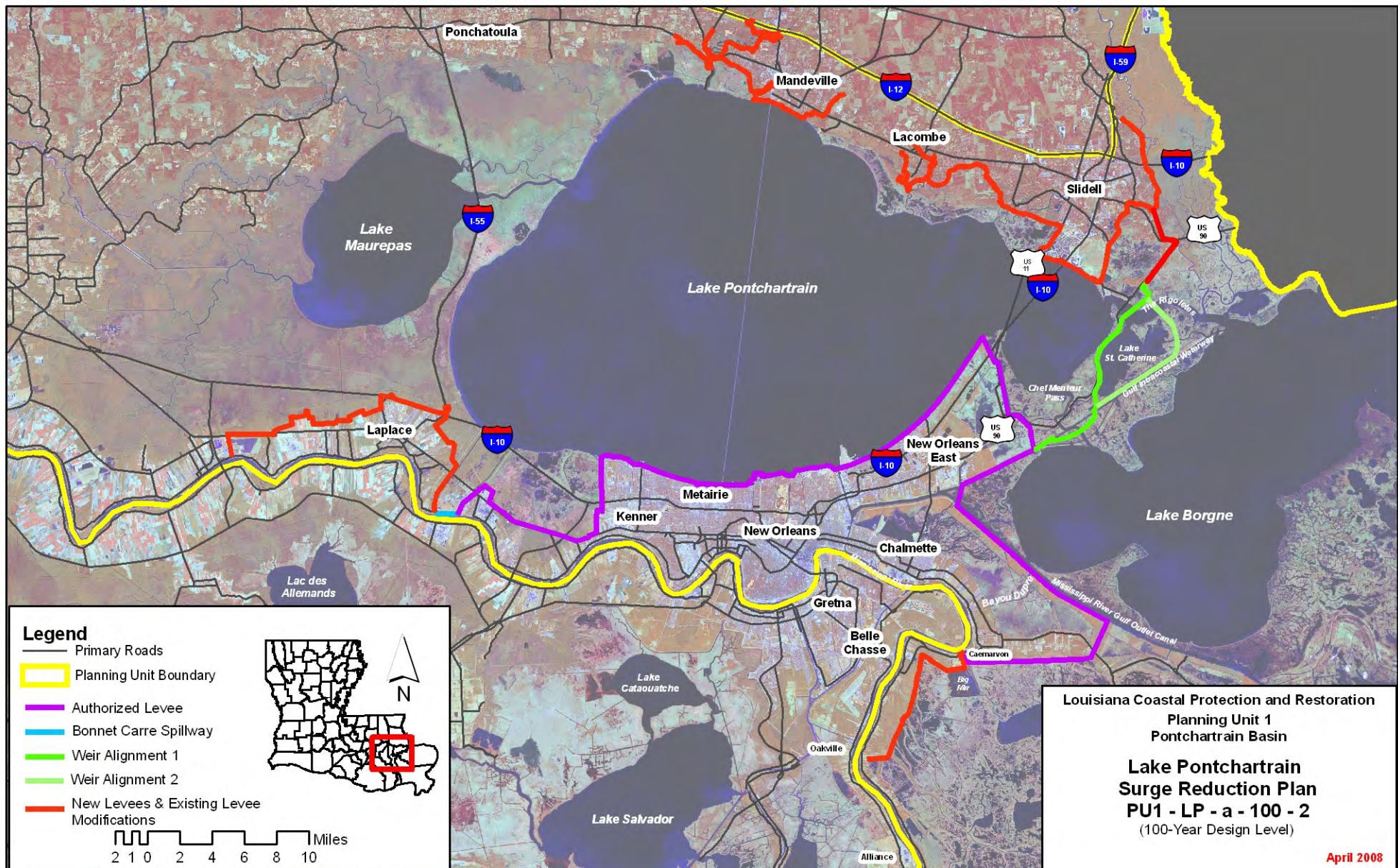
Planning Unit:	1	Alt. No.:	PU1-LP-a-100-2	Category:	Coastal Restoration + Structural Measures
Alternative Description:	Sustain coastal landscape through restoration and construct barrier-weir and levees to reduce risk to the Lake Pontchartrain area. Raise upper Plaquemines levees and construct new levees around Laplace and across the Northshore to the 100-year level of ri				
Coastal Component:	R2 (pulsed diversions)		Nonstructural Component:		None
Structural Component:	See alternative description above.				

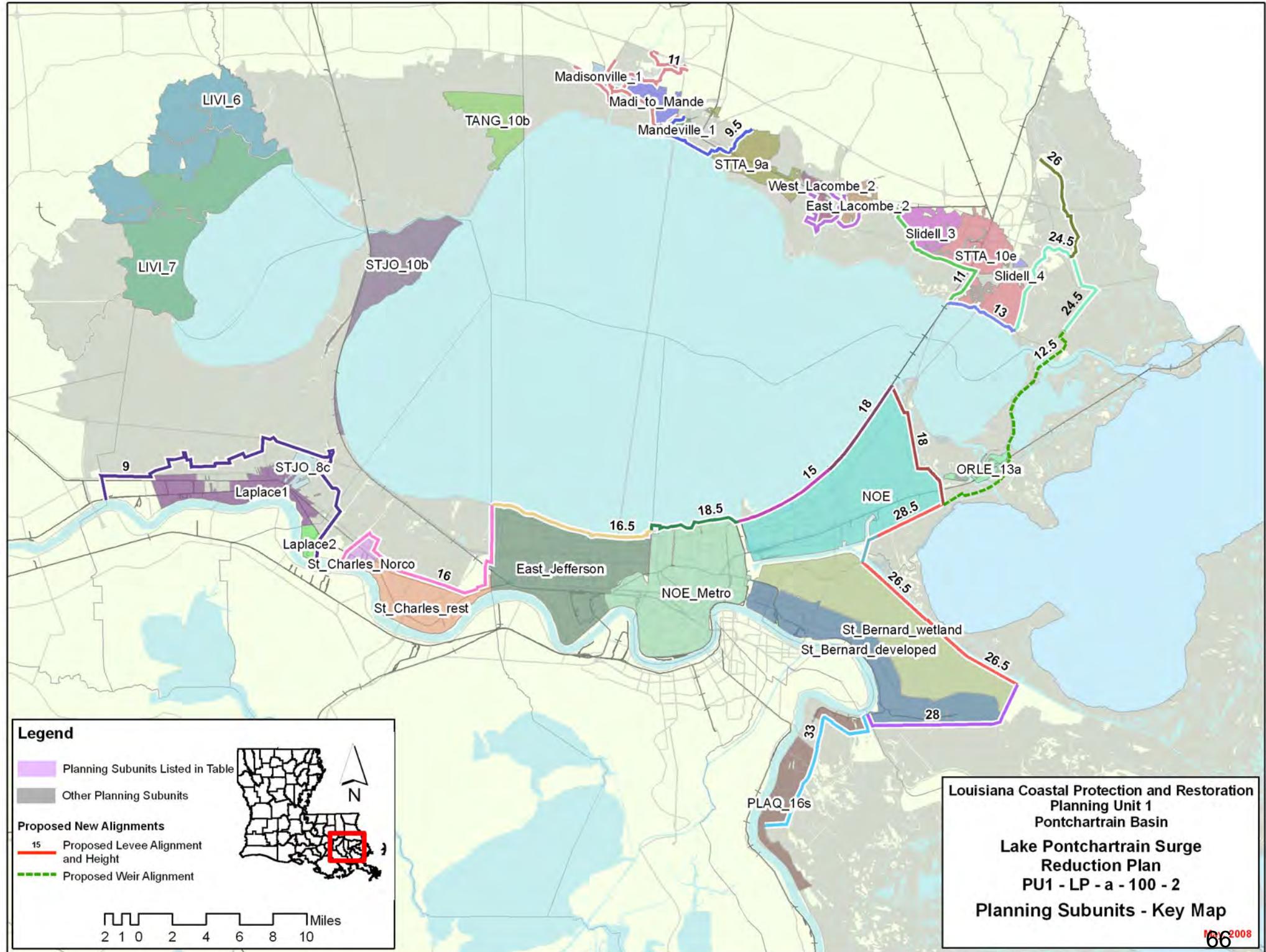
Scenario	Future Conditions (Relative Sea Level Rise (RSLR) and Redevelopment Assumptions)	Uncertainty	Results by Scenario with Uncertainty Bands								
			Life Cycle Cost	Population Impacted	Residual Damages	Gross Regional Output Impacted	Employment Impacted	People's Earned Income Impacted	Archeo. Sites Protected	Historic Properties Protected	Historic Districts Protected
			Ann. Equiv. \$ Millions	Ann. Equiv. #	Ann. Equiv. \$ Millions	Ann. Equiv. \$ Millions	Ann. Equiv. #	Ann. Equiv. \$ Millions	# Sites	# Properties	# Districts
1	Low RSLR High Employment Dispersed Population	High	31,733 1,691	329	203	1,213	56	361	145	51	
		Mid		34,111	474	376	1,839	97	331	137	50
		Low		38,655	842	745	3,435	193	301	134	43
2	High RSLR High Employment Dispersed Population	High	32,310 1,710	354	266	1,360	69	361	138	51	
		Mid		35,036	525	467	2,097	120	331	135	49
		Low		39,833	999	1,102	4,432	288	301	129	41
3	Low RSLR Business-as-Usual Compact Population	High	28,104 1,691	316	171	1,128	48	361	145	51	
		Mid		30,373	451	305	1,708	82	331	137	50
		Low		34,531	788	583	3,102	158	301	134	43
4	High RSLR Business-as-Usual Compact Population	High	28,401 1,710	334	200	1,224	57	361	138	51	
		Mid		31,006	489	352	1,864	96	331	135	49
		Low		35,298	901	882	3,859	232	301	129	41

Other Results			Wetlands Created/Protected		Scenario 1	Scenario 2	Scenario 3	Scenario 4	
Construction Time (years)			After 50 yrs (% of baseline)		106	104	106	104	
Direct Wetland Impacts (acres)			After 100 yrs (% of baseline)		104	95	104	95	
Indirect Impacts (unitless)			Present Value of Life Cycle Costs (\$ Millions)						
Spatial Integrity (unitless)			Coastal Component		10,666	10,899	10,666	10,899	
Non-Federal Share of Present Value of Life Cycle Costs	Scenario		Nonstructural Component		0	0	0	0	
	1 / 2	11,805	11,936	Structural Component		22,443	22,582	22,443	22,582
	3 / 4	11,805	11,936	Total Project		33,109	33,481	33,109	33,481

2075 Residual Risk / Damages - Low Uncertainty (\$ Millions)								Planning Unit 1 Structural Plan Lake Pontchartrain Surge Reduction Alt 100-year Design	
Frequency	Scenario 1		Scenario 2		Scenario 3		Scenario 4		
	No Action	With Proj							
10-year	1,215	941	1,472	1,007	1,081	811	1,345	870	
100-year	11,935	2,536	34,000	2,851	9,879	1,678	26,076	1,816	
400-year	89,937	16,183	116,204	16,791	62,688	10,505	80,694	10,730	
1,000-year	118,260	50,576	122,423	51,287	81,963	34,816	84,515	35,037	
2,000-year	122,343	105,784	125,886	106,664	84,351	73,501	86,336	73,745	

Note: Present Value costs and Annual Equivalent numbers are calculated for the period from 2010 to 2075 at common base year 2025 using a 4.78% Federal discount rate. All dollar metrics are based on 2007 price levels.





Alternative: PU1-LP-a-100-2
Water Surface Elevations (feet - NAVD88 2004.65)

Planning Sub Unit	2010 (Base) Conditions						2060 (Future) Conditions					
	100-yr Event		400-year Event		1,000-yr Event		100-yr Event		400-year Event		1,000-yr Event	
	Without Project	With Project	Without Project	With Project	Without Project	With Project	Without Project	With Project	Without Project	With Project	Without Project	With Project
East_Jefferson	-5.1	-5.3	-1.3	-4.7	4.4	-2.1	-2.6	-5.3	16.0	-4.7	16.0	-2.1
East_Lacombe_2	10.9	4.9	14.3	9.6	15.9	11.5	17.3	4.9	21.7	9.6	23.6	11.5
Laplace1	9.4	4.6	12.2	9.0	14.0	10.9	12.4	4.6	15.0	9.0	16.8	10.9
Laplace2	8.5	4.6	11.0	9.0	12.8	10.9	11.2	4.6	14.3	9.0	16.2	10.9
LIVI_6	7.3	4.1	9.7	5.2	11.1	6.1	10.3	6.7	12.8	7.8	13.9	8.7
LIVI_7	7.5	5.5	9.7	6.9	10.9	7.8	11.0	8.1	13.1	9.5	14.4	10.4
Madi_to_Mande	11.0	5.9	13.1	11.0	14.3	11.1	13.8	5.9	16.7	11.0	18.3	11.1
Madisonville_1	11.7	6.4	14.6	11.0	16.1	11.1	13.5	6.4	15.8	11.0	16.9	11.1
Mandeville_1	11.0	6.7	13.1	9.5	14.3	10.1	14.9	6.7	19.1	9.5	21.4	10.1
NOE	-5.8	-5.9	0.5	-4.0	10.9	-0.2	-0.1	-5.9	16.0	-4.0	16.0	-0.2
NOE_Metro	-5.1	-5.2	-4.8	-5.1	-3.0	-5.1	-5.0	-5.2	16.0	-5.1	16.0	-5.1
ORLE_13a	14.6	16.4	17.8	21.8	19.4	26.5	17.9	19.0	21.5	24.4	23.8	29.1
PLAQ_16s	19.2	0.5	25.3	16.4	30.0	18.0	21.4	0.5	27.8	16.4	31.8	18.0
Slidell_3	11.5	4.5	15.1	13.9	16.8	16.4	13.4	4.5	16.8	13.9	18.5	16.4
Slidell_4	14.1	6.2	18.3	13.9	20.4	16.4	20.5	6.2	24.3	13.9	26.5	16.4
St_Bernard_developed	-0.1	-0.1	4.3	4.8	10.6	12.5	2.3	-0.1	16.0	4.8	16.0	12.5
St_Bernard_wetland	2.4	2.4	5.2	5.4	10.6	12.5	4.5	2.4	16.0	5.4	16.0	12.5
St_Charles_Norco	4.4	3.4	16.0	4.6	16.0	16.0	11.5	3.4	17.3	4.6	18.6	16.0
St_Charles_rest	2.1	1.9	16.0	4.6	16.0	16.0	11.5	1.9	17.3	4.6	18.6	16.0
STJO_10b	10.6	8.9	12.9	11.4	14.1	12.8	13.3	11.5	15.6	14.0	16.7	15.4
STJO_8c	9.4	4.6	12.2	9.0	14.0	10.9	12.7	4.6	15.4	9.0	17.2	10.9
STTA_10e	12.2	4.5	16.2	13.9	18.2	16.4	13.3	4.5	16.7	13.9	18.6	16.4
STTA_9a	10.4	8.0	12.7	9.4	14.0	10.4	13.2	10.6	15.6	12.0	17.5	13.0
TANG_10b	11.0	7.7	13.6	10.6	15.0	12.1	13.7	10.3	16.3	13.2	17.8	14.7
West_Lacombe_2	10.5	3.9	13.5	9.6	15.0	11.5	13.2	3.9	15.8	9.6	17.3	11.5
Evaluation Parameters	Confidence Level:			90%			Levee Design:			No Friction Waves		
	Future Relative Sea Level Rise:			2.6 feet			Levee Overtopping:			No Friction Waves		

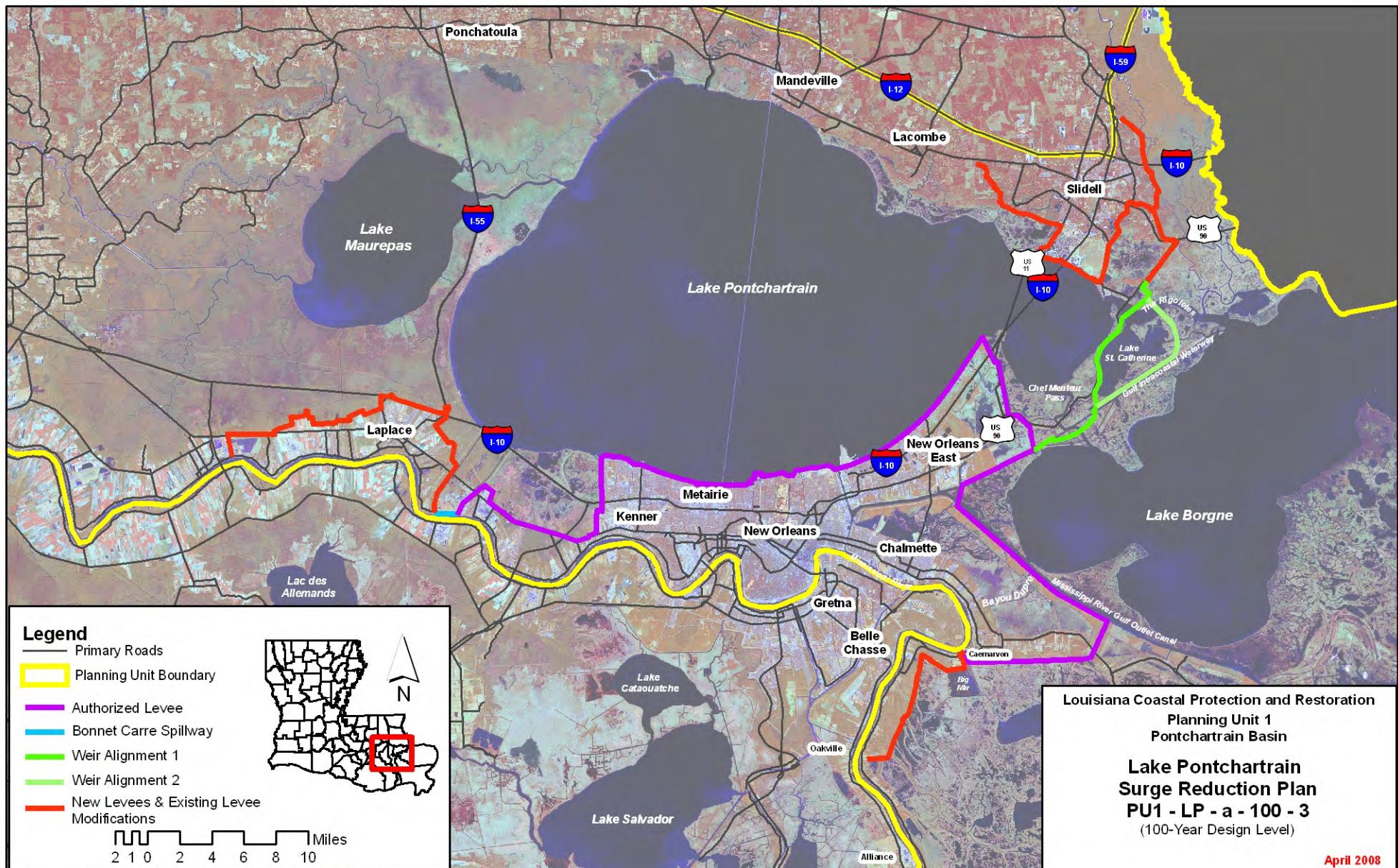
Planning Unit:	1	Alt. No.:	PU1-LP-a-100-3	Category:	Coastal Restoration + Structural Measures
Alternative Description:	Sustain coastal landscape through restoration and construct barrier-weir and levees to reduce risk to the Lake Pontchartrain area. Raise upper Plaquemines levees and construct new levees around Laplace and Slidell to the 100-year level of risk reduction.				
Coastal Component:	R2 (pulsed diversions)		Nonstructural Component:	None	
Structural Component:	See alternative description above.				

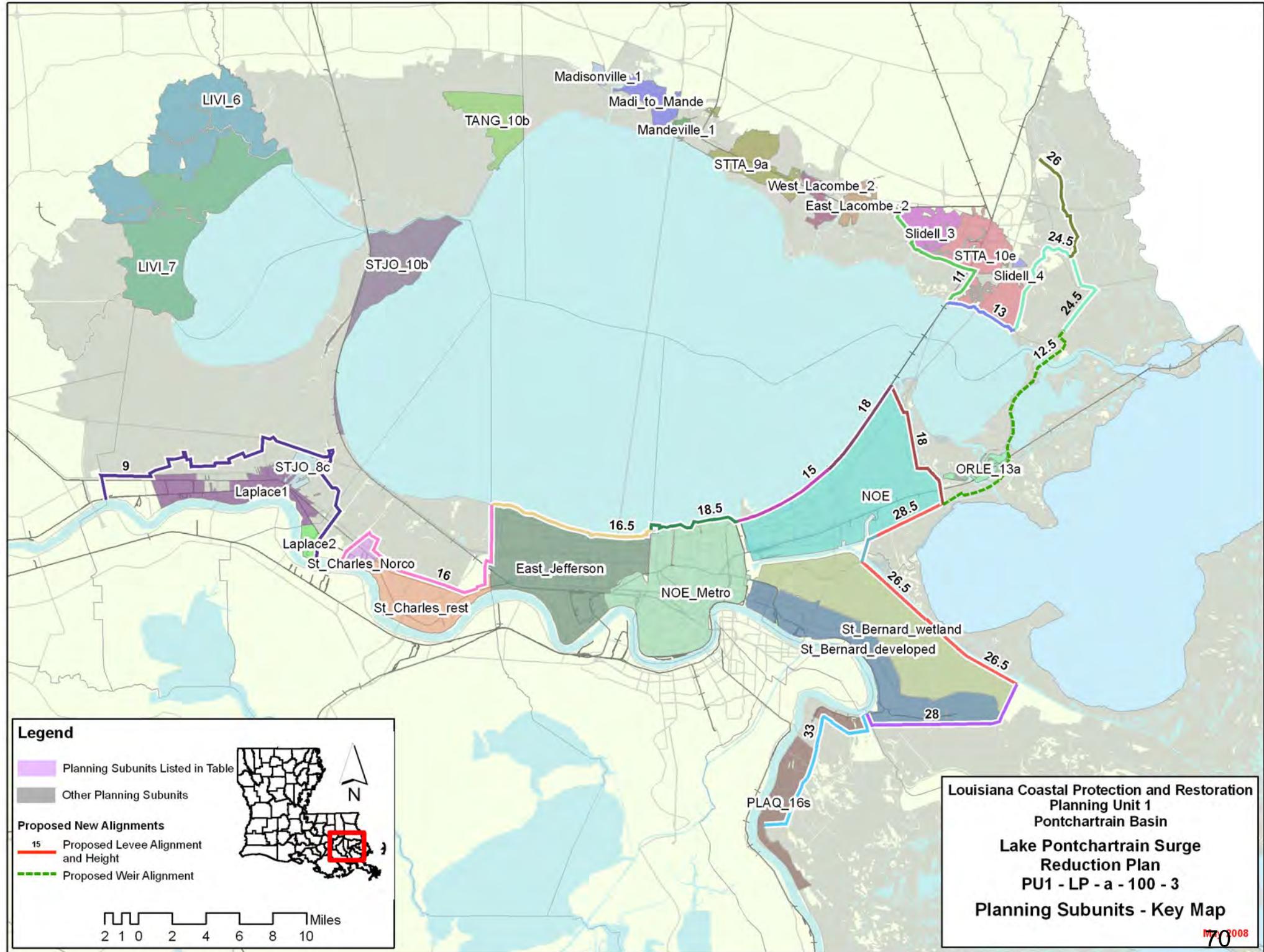
Scenario	Future Conditions (Relative Sea Level Rise (RSLR) and Redevelopment Assumptions)	Uncertainty	Results by Scenario with Uncertainty Bands								
			Life Cycle Cost	Population Impacted	Residual Damages	Gross Regional Output Impacted	Employment Impacted	People's Earned Income Impacted	Archeo. Sites Protected	Historic Properties Protected	Historic Districts Protected
			Ann. Equiv. \$ Millions	Ann. Equiv. #	Ann. Equiv. \$ Millions	Ann. Equiv. \$ Millions	Ann. Equiv. #	Ann. Equiv. \$ Millions	# Sites	# Properties	# Districts
1	Low RSLR High Employment Dispersed Population	High	31,942	333	205	1,227	56	354	143	51	
		Mid		1,622	479	380	1,856	98	324	133	50
		Low		34,379	850	753	3,467	196	294	127	43
2	High RSLR High Employment Dispersed Population	High	38,931	360	273	1,387	72	354	137	51	
		Mid		1,643	535	477	2,133	122	324	128	45
		Low		32,603	1,012	1,119	4,485	293	294	123	40
3	Low RSLR Business-as-Usual Compact Population	High	28,214	321	173	1,136	48	354	143	51	
		Mid		1,622	457	307	1,719	83	324	133	50
		Low		30,523	795	588	3,123	160	294	127	43
4	High RSLR Business-as-Usual Compact Population	High	34,704	340	204	1,242	58	354	137	51	
		Mid		1,643	497	359	1,889	98	324	128	45
		Low		28,552	912	894	3,896	236	294	123	40

Other Results			Wetlands Created/Protected		Scenario 1	Scenario 2	Scenario 3	Scenario 4	
Construction Time (years)			After 50 yrs (% of baseline)		106	104	106	104	
Direct Wetland Impacts (acres)			After 100 yrs (% of baseline)		104	95	104	95	
Indirect Impacts (unitless)			Present Value of Life Cycle Costs (\$ Millions)						
Spatial Integrity (unitless)			Coastal Component		10,666	10,899	10,666	10,899	
Non-Federal Share of Present Value of Life Cycle Costs	Scenario		Nonstructural Component		0	0	0	0	
	1 / 2	11,284	11,431	Structural Component		21,092	21,279	21,092	21,279
	3 / 4	11,284	11,431	Total Project		31,758	32,178	31,758	32,178

2075 Residual Risk / Damages - Low Uncertainty (\$ Millions)								Planning Unit 1 Structural Plan Lake Pontchartrain Surge Reduction Alt 100-year Design	
Frequency	Scenario 1		Scenario 2		Scenario 3		Scenario 4		
	No Action	With Proj							
	10-year	1,215	960	1,472	1,052	1,081	828	1,345	913
100-year	11,935	2,742	34,000	3,299	9,879	1,853	26,076	2,159	
400-year	89,937	16,545	116,204	17,507	62,688	10,729	80,694	11,128	
1,000-year	118,260	51,238	122,423	52,430	81,963	35,144	84,515	35,612	
2,000-year	122,343	106,606	125,886	108,011	84,351	73,883	86,336	74,417	

Note: Present Value costs and Annual Equivalent numbers are calculated for the period from 2010 to 2075 at common base year 2025 using a 4.78% Federal discount rate. All dollar metrics are based on 2007 price levels.





Alternative: PU1-LP-a-100-3
Water Surface Elevations (feet - NAVD88 2004.65)

Planning Sub Unit	2010 (Base) Conditions						2060 (Future) Conditions					
	100-yr Event		400-year Event		1,000-yr Event		100-yr Event		400-year Event		1,000-yr Event	
	Without Project	With Project	Without Project	With Project	Without Project	With Project	Without Project	With Project	Without Project	With Project	Without Project	With Project
East_Jefferson	-5.1	-5.3	-1.3	-4.7	4.4	-2.1	-2.6	-5.3	16.0	-4.7	16.0	-2.1
East_Lacombe_2	10.9	7.2	14.3	11.1	15.9	13.2	17.3	9.8	21.7	13.7	23.6	15.8
Laplace1	9.4	4.6	12.2	9.0	14.0	10.9	12.4	4.6	15.0	9.0	16.8	10.9
Laplace2	8.5	4.6	11.0	9.0	12.8	10.9	11.2	4.6	14.3	9.0	16.2	10.9
LIVI_6	7.3	4.1	9.7	5.2	11.1	6.1	10.3	6.7	12.8	7.8	13.9	8.7
LIVI_7	7.5	5.5	9.7	6.9	10.9	7.8	11.0	8.1	13.1	9.5	14.4	10.4
Madi_to_Mande	11.0	11.5	13.1	12.5	14.3	13.3	13.8	14.1	16.7	15.1	18.3	15.9
Madisonville_1	11.7	10.1	14.6	14.9	16.1	27.3	13.5	12.7	15.8	17.5	16.9	29.9
Mandeville_1	11.0	11.5	13.1	12.5	14.3	13.3	14.9	14.1	19.1	15.1	21.4	15.9
NOE	-5.8	-5.9	0.5	-4.0	10.9	-0.2	-0.1	-5.9	16.0	-4.0	16.0	-0.2
NOE_Metro	-5.1	-5.2	-4.8	-5.1	-3.0	-5.1	-5.0	-5.2	16.0	-5.1	16.0	-5.1
ORLE_13a	14.6	16.4	17.8	21.8	19.4	26.5	17.9	19.0	21.5	24.4	23.8	29.1
PLAQ_16s	19.2	0.5	25.3	16.4	30.0	18.0	21.4	0.5	27.8	16.4	31.8	18.0
Slidell_3	11.5	4.5	15.1	13.9	16.8	16.4	13.4	4.5	16.8	13.9	18.5	16.4
Slidell_4	14.1	6.2	18.3	13.9	20.4	16.4	20.5	6.2	24.3	13.9	26.5	16.4
St_Bernard_developed	-0.1	-0.1	4.3	4.8	10.6	12.5	2.3	-0.1	16.0	4.8	16.0	12.5
St_Bernard_wetland	2.4	2.4	5.2	5.4	10.6	12.5	4.5	2.4	16.0	5.4	16.0	12.5
St_Charles_Norco	4.4	3.4	16.0	4.6	16.0	16.0	11.5	3.4	17.3	4.6	18.6	16.0
St_Charles_rest	2.1	1.9	16.0	4.6	16.0	16.0	11.5	1.9	17.3	4.6	18.6	16.0
STJO_10b	10.6	8.9	12.9	11.4	14.1	12.8	13.3	11.5	15.6	14.0	16.7	15.4
STJO_8c	9.4	4.6	12.2	9.0	14.0	10.9	12.7	4.6	15.4	9.0	17.2	10.9
STTA_10e	12.2	4.5	16.2	13.9	18.2	16.4	13.3	4.5	16.7	13.9	18.6	16.4
STTA_9a	10.4	8.0	12.7	9.4	14.0	10.4	13.2	10.6	15.6	12.0	17.5	13.0
TANG_10b	11.0	7.7	13.6	10.6	15.0	12.1	13.7	10.3	16.3	13.2	17.8	14.7
West_Lacombe_2	10.5	7.4	13.5	10.0	15.0	11.5	13.2	10.0	15.8	12.6	17.3	14.1
Evaluation Parameters	Confidence Level:			90%			Levee Design:			No Friction Waves		
	Future Relative Sea Level Rise:			2.6 feet			Levee Overtopping:			No Friction Waves		

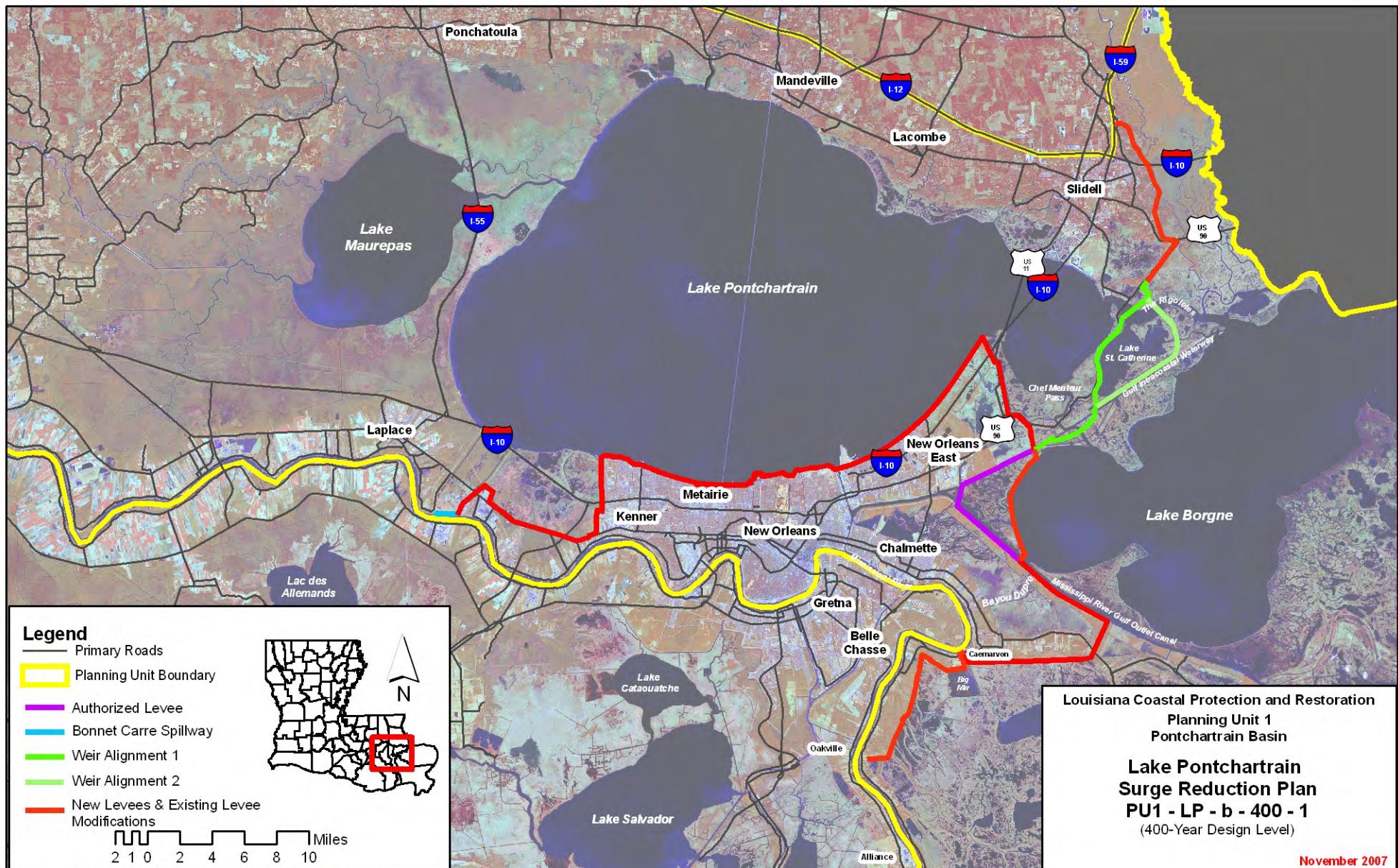
Planning Unit:	1	Alt. No.:	PU1-LP-b-400-1	Category:	Coastal Restoration + Structural Measures
Alternative Description:	Sustain coastal landscape through restoration and construct barrier-weir and levees to reduce risk to the Lake Pontchartrain area. Raise Lake Pontchartrain and Vicinity and upper Plaquemines levees to 400-year level of risk reduction.				
Coastal Component:	R2 (pulsed diversions)		Nonstructural Component:	None	
Structural Component:	See alternative description above.				

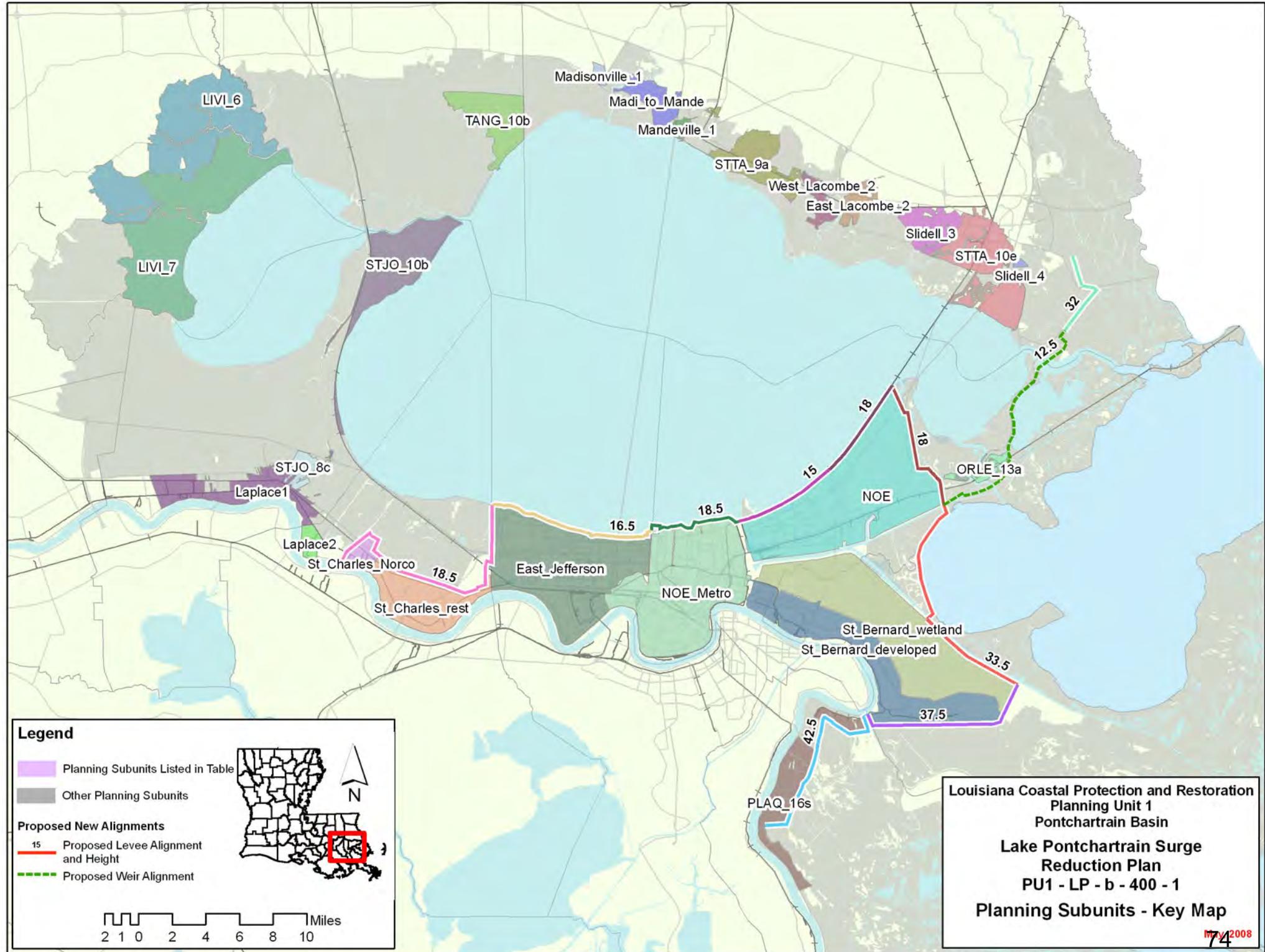
Scenario	Future Conditions (Relative Sea Level Rise (RSLR) and Redevelopment Assumptions)	Uncertainty	Results by Scenario with Uncertainty Bands								
			Life Cycle Cost	Population Impacted	Residual Damages	Gross Regional Output Impacted	Employment Impacted	People's Earned Income Impacted	Archeo. Sites Protected	Historic Properties Protected	Historic Districts Protected
			Ann. Equiv. \$ Millions	Ann. Equiv. #	Ann. Equiv. \$ Millions	Ann. Equiv. \$ Millions	Ann. Equiv. #	Ann. Equiv. \$ Millions	# Sites	# Properties	# Districts
1	Low RSLR High Employment Dispersed Population	High	32,873 1,849	359	220	1,291	60	327	142	51	
		Mid		35,618	517	420	2,021	109	297	137	50
		Low		40,570	878	797	3,598	207	267	131	48
2	High RSLR High Employment Dispersed Population	High	34,007 1,865	397	316	1,553	85	354	138	51	
		Mid		37,263	594	572	2,443	148	324	133	50
		Low		42,333	1,096	1,273	4,869	330	294	129	45
3	Low RSLR Business-as-Usual Compact Population	High	29,237 1,849	348	190	1,217	53	327	142	51	
		Mid		31,861	496	341	1,884	93	297	137	50
		Low		36,549	833	609	3,243	168	267	131	48
4	High RSLR Business-as-Usual Compact Population	High	29,968 1,865	378	237	1,379	69	354	138	51	
		Mid		33,054	556	416	2,136	115	324	133	50
		Low		37,792	994	1,000	4,223	265	294	129	45

Other Results			Wetlands Created/Protected		Scenario 1	Scenario 2	Scenario 3	Scenario 4	
Construction Time (years)			After 50 yrs (% of baseline)		106	104	106	104	
Direct Wetland Impacts (acres)			After 100 yrs (% of baseline)		104	95	104	95	
Indirect Impacts (unitless)			Present Value of Life Cycle Costs (\$ Millions)						
Spatial Integrity (unitless)			Coastal Component		10,666	10,899	10,666	10,899	
Non-Federal Share of Present Value of Life Cycle Costs	Scenario		Nonstructural Component		0	0	0	0	
	1 / 2	12,754	12,865	Structural Component		25,538	25,620	25,538	25,620
	3 / 4	12,754	12,865	Total Project		36,204	36,519	36,204	36,519

2075 Residual Risk / Damages - Low Uncertainty (\$ Millions)								Planning Unit 1 Structural Plan Lake Pontchartrain Surge Reduction Alt 400-year Design	
Frequency	Scenario 1		Scenario 2		Scenario 3		Scenario 4		
	No Action	With Proj							
10-year	1,215	1,033	1,472	1,210	1,081	905	1,345	1,073	
100-year	11,935	4,144	34,000	6,088	9,879	3,146	26,076	4,684	
400-year	89,937	11,216	116,204	15,591	62,688	8,666	80,694	11,450	
1,000-year	118,260	20,434	122,423	24,513	81,963	14,819	84,515	17,231	
2,000-year	122,343	39,642	125,886	43,054	84,351	28,407	86,336	30,352	

Note: Present Value costs and Annual Equivalent numbers are calculated for the period from 2010 to 2075 at common base year 2025 using a 4.78% Federal discount rate. All dollar metrics are based on 2007 price levels.





Alternative: PU1-LP-b-400-1
Water Surface Elevations (feet - NAVD88 2004.65)

Planning Sub Unit	2010 (Base) Conditions						2060 (Future) Conditions					
	100-yr Event		400-year Event		1,000-yr Event		100-yr Event		400-year Event		1,000-yr Event	
	Without Project	With Project	Without Project	With Project	Without Project	With Project	Without Project	With Project	Without Project	With Project	Without Project	With Project
East_Jefferson	-5.1	-5.3	-1.3	-5.1	4.4	-4.5	-2.6	-5.3	16.0	-5.1	16.0	-4.5
East_Lacombe_2	10.9	7.2	14.3	11.1	15.9	13.2	17.3	9.8	21.7	13.7	23.6	15.8
Laplace1	9.4	6.1	12.2	10.5	14.0	13.6	12.4	8.7	15.0	13.1	16.8	16.2
Laplace2	8.5	9.4	11.0	11.9	12.8	13.4	11.2	12.0	14.3	14.5	16.2	16.0
LIVI_6	7.3	4.1	9.7	5.2	11.1	6.1	10.3	6.7	12.8	7.8	13.9	8.7
LIVI_7	7.5	5.5	9.7	6.9	10.9	7.8	11.0	8.1	13.1	9.5	14.4	10.4
Madi_to_Mande	11.0	11.5	13.1	12.5	14.3	13.3	13.8	14.1	16.7	15.1	18.3	15.9
Madisonville_1	11.7	10.1	14.6	14.9	16.1	27.3	13.5	12.7	15.8	17.5	16.9	29.9
Mandeville_1	11.0	11.5	13.1	12.5	14.3	13.3	14.9	14.1	19.1	15.1	21.4	15.9
NOE	-5.8	-6.0	0.5	-5.9	10.9	-4.6	-0.1	-6.0	16.0	-5.9	16.0	-4.6
NOE_Metro	-5.1	-5.2	-4.8	-5.1	-3.0	-5.1	-5.0	-5.2	16.0	-5.1	16.0	-5.1
ORLE_13a	14.6	16.4	17.8	21.8	19.4	26.5	17.9	19.0	21.5	24.4	23.8	29.1
PLAQ_16s	19.2	17.8	25.3	25.7	30.0	29.9	21.4	20.4	27.8	28.3	31.8	32.5
Slidell_3	11.5	8.5	15.1	12.8	16.8	14.9	13.4	11.1	16.8	15.4	18.5	17.5
Slidell_4	14.1	10.0	18.3	16.4	20.4	22.2	20.5	12.6	24.3	19.0	26.5	24.8
St_Bernard_developed	-0.1	-0.4	4.3	-0.1	10.6	0.7	2.3	-0.4	16.0	-0.1	16.0	0.7
St_Bernard_wetland	2.4	1.7	5.2	1.8	10.6	2.2	4.5	1.7	16.0	1.8	16.0	2.2
St_Charles_Norco	4.4	3.4	16.0	4.2	16.0	4.5	11.5	3.4	17.3	4.2	18.6	4.5
St_Charles_rest	2.1	1.9	16.0	2.1	16.0	4.3	11.5	1.9	17.3	2.1	18.6	4.3
STJO_10b	10.6	8.9	12.9	11.4	14.1	12.8	13.3	11.5	15.6	14.0	16.7	15.4
STJO_8c	9.4	6.1	12.2	10.5	14.0	13.6	12.7	8.7	15.4	13.1	17.2	16.2
STTA_10e	12.2	8.8	16.2	13.1	18.2	15.3	13.3	11.4	16.7	15.7	18.6	17.9
STTA_9a	10.4	8.0	12.7	9.4	14.0	10.4	13.2	10.6	15.6	12.0	17.5	13.0
TANG_10b	11.0	7.7	13.6	10.6	15.0	12.1	13.7	10.3	16.3	13.2	17.8	14.7
West_Lacombe_2	10.5	7.4	13.5	10.0	15.0	11.5	13.2	10.0	15.8	12.6	17.3	14.1
Evaluation Parameters	Confidence Level:			90%			Levee Design:			No Friction Waves		
	Future Relative Sea Level Rise:			2.6 feet			Levee Overtopping:			No Friction Waves		

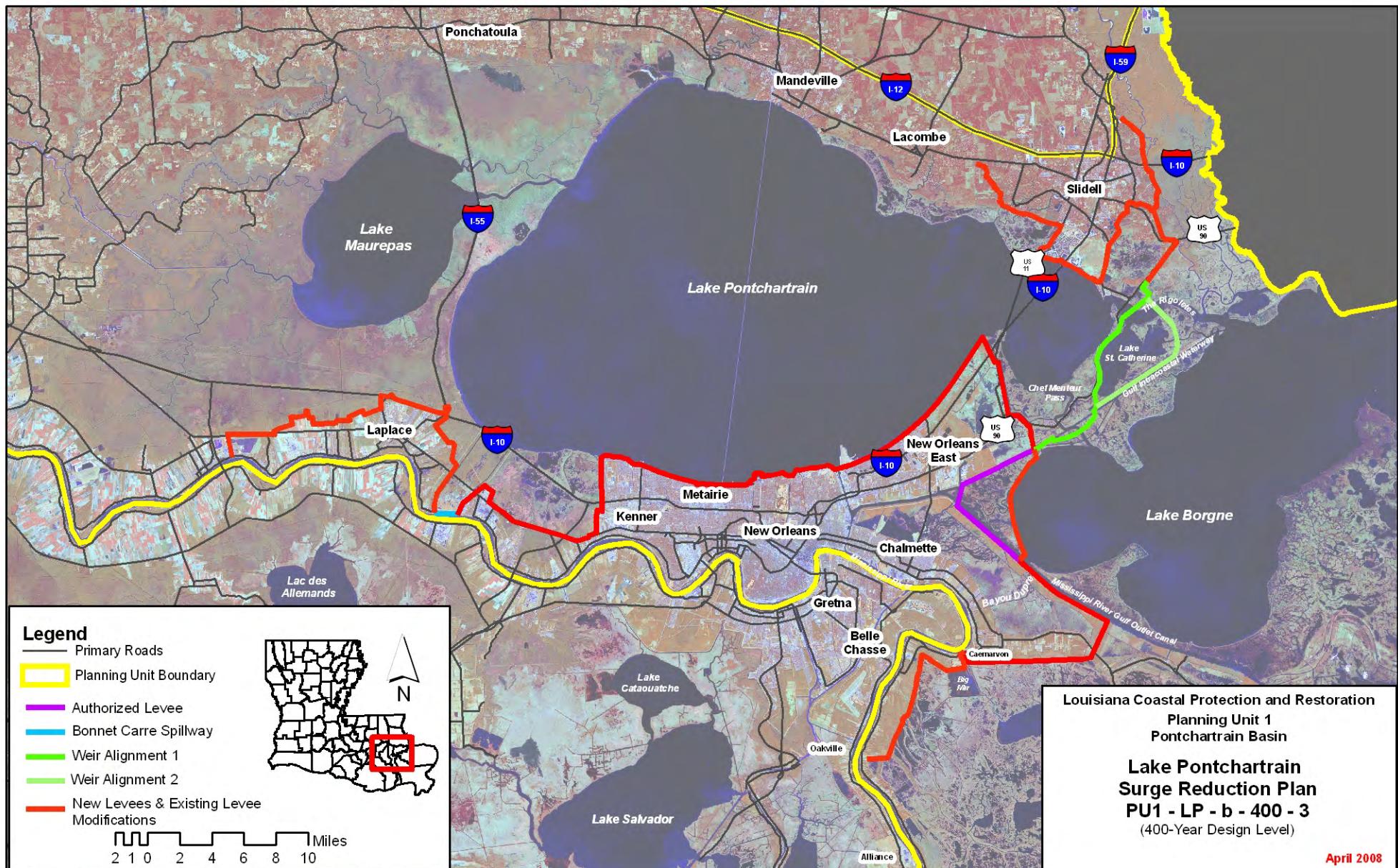
Planning Unit:	1	Alt. No.:	PU1-LP-b-400-3	Category:	Coastal Restoration + Structural Measures
Alternative Description:	Sustain coastal landscape through restoration and construct barrier-weir and levees to reduce risk to the Lake Pontchartrain area. Raise Lake Pontchartrain and Vicinity and upper Plaquemines levees and construct new levees around Laplace and Slidell to t				
Coastal Component:	R2 (pulsed diversions)		Nonstructural Component:		None
Structural Component:	See alternative description above.				

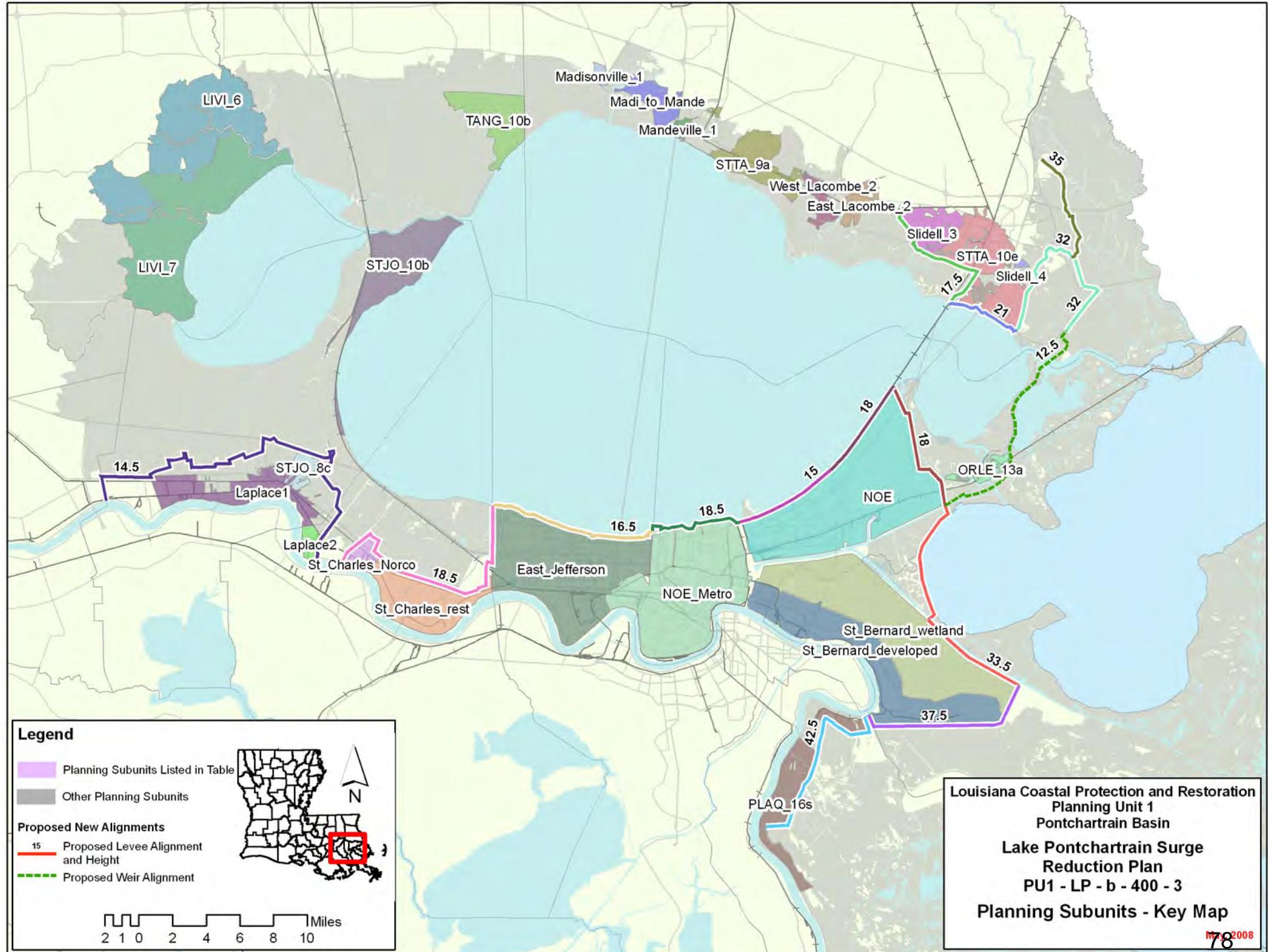
Scenario	Future Conditions (Relative Sea Level Rise (RSLR) and Redevelopment Assumptions)	Uncertainty	Results by Scenario with Uncertainty Bands								
			Life Cycle Cost	Population Impacted	Residual Damages	Gross Regional Output Impacted	Employment Impacted	People's Earned Income Impacted	Archeo. Sites Protected	Historic Properties Protected	Historic Districts Protected
			Ann. Equiv. \$ Millions	Ann. Equiv. #	Ann. Equiv. \$ Millions	Ann. Equiv. \$ Millions	Ann. Equiv. #	Ann. Equiv. \$ Millions	# Sites	# Properties	# Districts
1	Low RSLR High Employment Dispersed Population	High	32,087	339	205	1,235	56	356	149	51	
		Mid		2,847	478	383	1,859	99	326	146	50
		Low		38,442	811	714	3,279	185	296	141	48
2	High RSLR High Employment Dispersed Population	High	2,867	32,762	368	280	1,417	73	356	147	51
		Mid		35,421	541	497	2,184	128	326	142	50
		Low		39,867	1,001	1,148	4,485	301	296	134	45
3	Low RSLR Business-as-Usual Compact Population	High	2,847	28,496	328	176	1,158	49	356	149	51
		Mid		30,580	458	311	1,724	83	326	146	50
		Low		34,419	766	554	2,943	150	296	141	48
4	High RSLR Business-as-Usual Compact Population	High	2,867	28,854	350	213	1,281	61	356	147	51
		Mid		31,353	504	371	1,922	101	326	142	50
		Low		35,364	903	918	3,865	241	296	134	45

Other Results			Wetlands Created/Protected		Scenario 1	Scenario 2	Scenario 3	Scenario 4	
Construction Time (years)			After 50 yrs (% of baseline)		106	104	106	104	
Direct Wetland Impacts (acres)			After 100 yrs (% of baseline)		104	95	104	95	
Indirect Impacts (unitless)			Present Value of Life Cycle Costs (\$ Millions)						
Spatial Integrity (unitless)			Coastal Component		10,666	10,899	10,666	10,899	
Non-Federal Share of Present Value of Life Cycle Costs	Scenario		Nonstructural Component		0	0	0	0	
	1 / 2	19,733	19,870	Structural Component		45,081	45,238	45,081	45,238
	3 / 4	19,733	19,870	Total Project		55,747	56,137	55,747	56,137

2075 Residual Risk / Damages - Low Uncertainty (\$ Millions)								Planning Unit 1 Structural Plan Lake Pontchartrain Surge Reduction Alt 400-year Design	
Frequency	Scenario 1		Scenario 2		Scenario 3		Scenario 4		
	No Action	With Proj							
10-year	1,215	959	1,472	1,051	1,081	827	1,345	912	
100-year	11,935	2,668	34,000	3,226	9,879	1,789	26,076	2,095	
400-year	89,937	4,448	116,204	5,411	62,688	2,452	80,694	2,851	
1,000-year	118,260	10,316	122,423	11,508	81,963	7,048	84,515	7,516	
2,000-year	122,343	29,258	125,886	30,663	84,351	21,861	86,336	22,395	

Note: Present Value costs and Annual Equivalent numbers are calculated for the period from 2010 to 2075 at common base year 2025 using a 4.78% Federal discount rate. All dollar metrics are based on 2007 price levels.





Alternative: PU1-LP-b-400-3
Water Surface Elevations (feet - NAVD88 2004.65)

Planning Sub Unit	2010 (Base) Conditions						2060 (Future) Conditions					
	100-yr Event		400-year Event		1,000-yr Event		100-yr Event		400-year Event		1,000-yr Event	
	Without Project	With Project	Without Project	With Project	Without Project	With Project	Without Project	With Project	Without Project	With Project	Without Project	With Project
East_Jefferson	-5.1	-5.3	-1.3	-5.1	4.4	-4.5	-2.6	-5.3	16.0	-5.1	16.0	-4.5
East_Lacombe_2	10.9	7.2	14.3	11.1	15.9	13.2	17.3	9.8	21.7	13.7	23.6	15.8
Laplace1	9.4	4.1	12.2	4.5	14.0	9.8	12.4	4.1	15.0	4.5	16.8	9.8
Laplace2	8.5	4.1	11.0	4.5	12.8	9.8	11.2	4.1	14.3	4.5	16.2	9.8
LIVI_6	7.3	4.1	9.7	5.2	11.1	6.1	10.3	6.7	12.8	7.8	13.9	8.7
LIVI_7	7.5	5.5	9.7	6.9	10.9	7.8	11.0	8.1	13.1	9.5	14.4	10.4
Madi_to_Mande	11.0	11.5	13.1	12.5	14.3	13.3	13.8	14.1	16.7	15.1	18.3	15.9
Madisonville_1	11.7	10.1	14.6	14.9	16.1	27.3	13.5	12.7	15.8	17.5	16.9	29.9
Mandeville_1	11.0	11.5	13.1	12.5	14.3	13.3	14.9	14.1	19.1	15.1	21.4	15.9
NOE	-5.8	-6.0	0.5	-5.9	10.9	-4.6	-0.1	-6.0	16.0	-5.9	16.0	-4.6
NOE_Metro	-5.1	-5.2	-4.8	-5.1	-3.0	-5.1	-5.0	-5.2	16.0	-5.1	16.0	-5.1
ORLE_13a	14.6	16.4	17.8	21.8	19.4	26.5	17.9	19.0	21.5	24.4	23.8	29.1
PLAQ_16s	19.2	-0.1	25.3	0.9	30.0	4.0	21.4	-0.1	27.8	0.9	31.8	4.0
Slidell_3	11.5	4.3	15.1	4.5	16.8	6.4	13.4	4.3	16.8	4.5	18.5	6.4
Slidell_4	14.1	6.2	18.3	6.2	20.4	6.2	20.5	6.2	24.3	6.2	26.5	6.2
St_Bernard_developed	-0.1	-0.4	4.3	-0.1	10.6	0.7	2.3	-0.4	16.0	-0.1	16.0	0.7
St_Bernard_wetland	2.4	1.7	5.2	1.8	10.6	2.2	4.5	1.7	16.0	1.8	16.0	2.2
St_Charles_Norco	4.4	3.4	16.0	4.2	16.0	4.5	11.5	3.4	17.3	4.2	18.6	4.5
St_Charles_rest	2.1	1.9	16.0	2.1	16.0	4.3	11.5	1.9	17.3	2.1	18.6	4.3
STJO_10b	10.6	8.9	12.9	11.4	14.1	12.8	13.3	11.5	15.6	14.0	16.7	15.4
STJO_8c	9.4	4.1	12.2	4.5	14.0	9.8	12.7	4.1	15.4	4.5	17.2	9.8
STTA_10e	12.2	4.3	16.2	4.5	18.2	6.4	13.3	4.3	16.7	4.5	18.6	6.4
STTA_9a	10.4	8.0	12.7	9.4	14.0	10.4	13.2	10.6	15.6	12.0	17.5	13.0
TANG_10b	11.0	7.7	13.6	10.6	15.0	12.1	13.7	10.3	16.3	13.2	17.8	14.7
West_Lacombe_2	10.5	7.4	13.5	10.0	15.0	11.5	13.2	10.0	15.8	12.6	17.3	14.1
Evaluation Parameters	Confidence Level:			90%			Levee Design:			No Friction Waves		
	Future Relative Sea Level Rise:			2.6 feet			Levee Overtopping:			No Friction Waves		

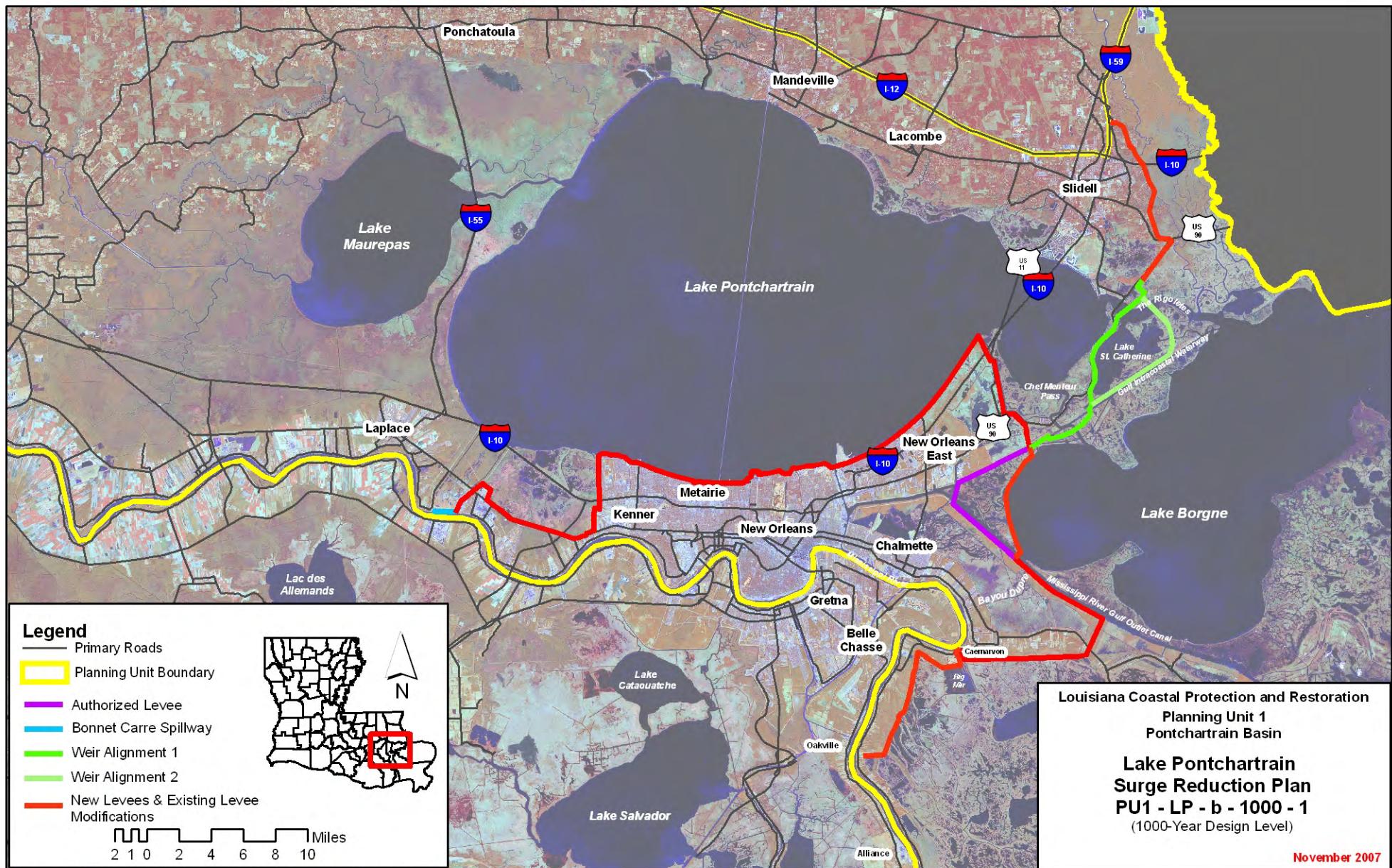
Planning Unit:	1	Alt. No.:	PU1-LP-b-1000-1	Category:	Coastal Restoration + Structural Measures
Alternative Description:	Sustain coastal landscape through restoration and construct barrier-weir and levees to reduce risk to the Lake Pontchartrain area. Raise Lake Pontchartrain and Vicinity and upper Plaquemines levees to 1000-year level of risk reduction.				
Coastal Component:	R2 (pulsed diversions)		Nonstructural Component:	None	
Structural Component:	See alternative description above.				

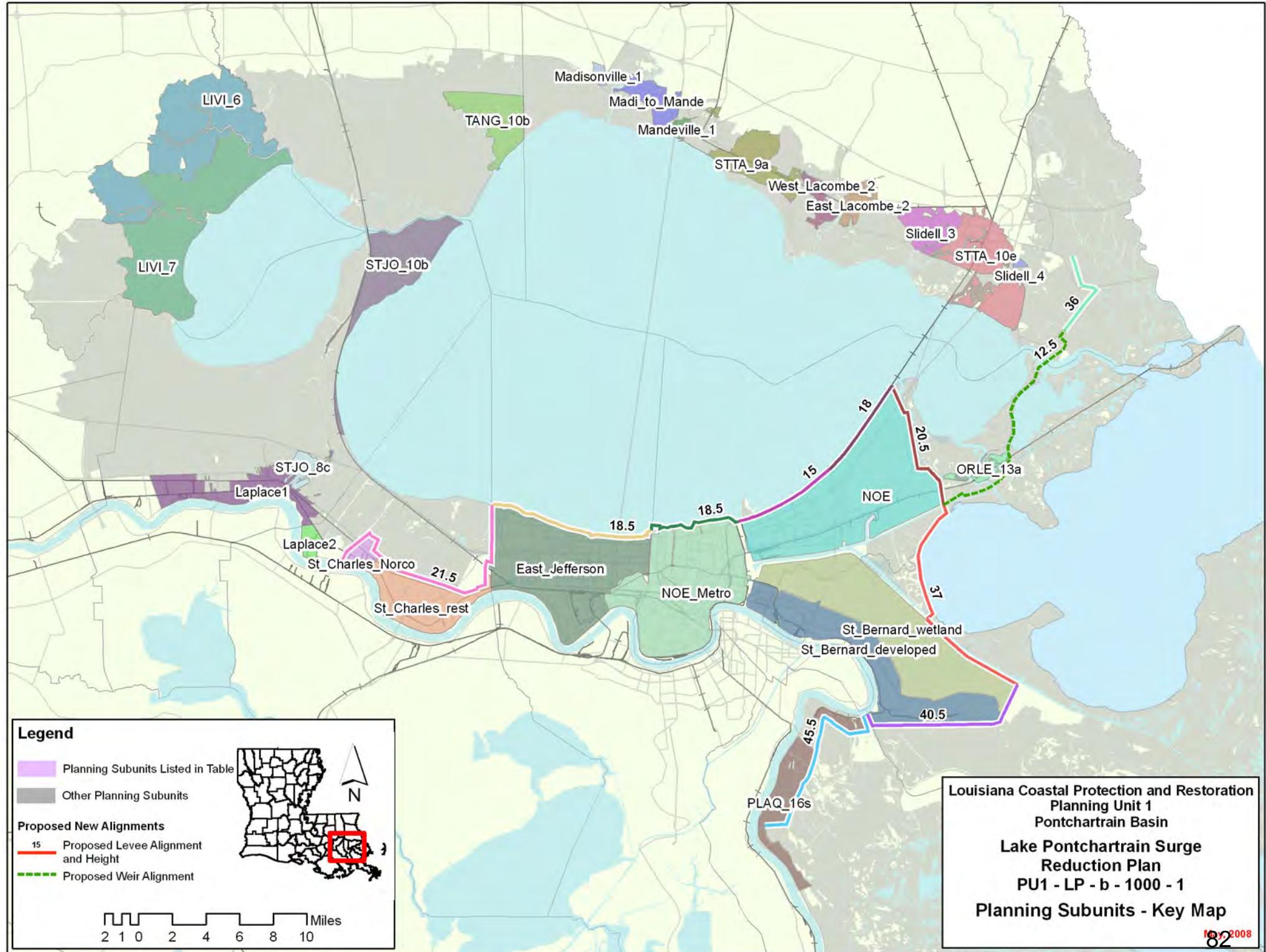
Scenario	Future Conditions (Relative Sea Level Rise (RSLR) and Redevelopment Assumptions)	Uncertainty	Results by Scenario with Uncertainty Bands								
			Life Cycle Cost	Population Impacted	Residual Damages	Gross Regional Output Impacted	Employment Impacted	People's Earned Income Impacted	Archeo. Sites Protected	Historic Properties Protected	Historic Districts Protected
			Ann. Equiv. \$ Millions	Ann. Equiv. #	Ann. Equiv. \$ Millions	Ann. Equiv. \$ Millions	Ann. Equiv. #	Ann. Equiv. \$ Millions	# Sites	# Properties	# Districts
1	Low RSLR High Employment Dispersed Population	High	32,873	359	220	1,291	60	327	142	51	
		Mid		2,247	35,605	517	420	2,021	109	297	137
		Low			40,423	874	789	3,561	205	267	131
2	High RSLR High Employment Dispersed Population	High	34,007	397	316	1,553	85	327	138	51	
		Mid		2,270	37,249	594	372	2,443	147	297	133
		Low			42,186	1,091	1,264	4,832	327	267	129
3	Low RSLR Business-as-Usual Compact Population	High	29,237	348	190	1,217	53	327	142	51	
		Mid		2,247	31,850	496	341	1,884	93	297	137
		Low			36,414	829	602	3,214	166	267	131
4	High RSLR Business-as-Usual Compact Population	High	29,968	378	237	1,379	69	327	138	51	
		Mid		2,270	33,043	556	416	2,136	115	297	133
		Low			37,657	989	993	4,193	263	267	129

Other Results			Wetlands Created/Protected		Scenario 1	Scenario 2	Scenario 3	Scenario 4
Construction Time (years)			After 50 yrs (% of baseline)		106	104	106	104
Direct Wetland Impacts (acres)			After 100 yrs (% of baseline)		104	95	104	95
Indirect Impacts (unitless)			Present Value of Life Cycle Costs (\$ Millions)					
Spatial Integrity (unitless)			Coastal Component		10,666	10,899	10,666	10,899
Non-Federal Share of Present Value of Life Cycle Costs	Scenario	(\$ Millions)	Nonstructural Component		0	0	0	0
	1 / 2	15,628	Structural Component		33,339	33,562	33,339	33,562
	3 / 4	15,628	Total Project		44,005	44,461	44,005	44,461

2075 Residual Risk / Damages - Low Uncertainty (\$ Millions)								Planning Unit 1 Structural Plan Lake Pontchartrain Surge Reduction Alt 1000-year Design	
Frequency	Scenario 1		Scenario 2		Scenario 3		Scenario 4		
	No Action	With Proj							
10-year	1,215	1,033	1,472	1,210	1,081	1,210	1,345	1,073	
100-year	11,935	4,142	34,000	6,087	9,879	6,087	26,076	4,683	
400-year	89,937	11,126	116,204	15,501	62,688	15,501	80,694	11,368	
1,000-year	118,260	18,304	122,423	22,384	81,963	22,384	84,515	15,520	
2,000-year	122,343	23,524	125,886	26,936	84,351	26,936	86,336	18,675	

Note: Present Value costs and Annual Equivalent numbers are calculated for the period from 2010 to 2075 at common base year 2025 using a 4.78% Federal discount rate. All dollar metrics are based on 2007 price levels.





Alternative: PU1-LP-b-1000-1
Water Surface Elevations (feet - NAVD88 2004.65)

Planning Sub Unit	2010 (Base) Conditions						2060 (Future) Conditions					
	100-yr Event		400-year Event		1,000-yr Event		100-yr Event		400-year Event		1,000-yr Event	
	Without Project	With Project	Without Project	With Project	Without Project	With Project	Without Project	With Project	Without Project	With Project	Without Project	With Project
East_Jefferson	-5.1	-5.3	-1.3	-5.2	4.4	-5.0	-2.6	-5.3	16.0	-5.2	16.0	-5.0
East_Lacombe_2	10.9	7.2	14.3	11.1	15.9	13.2	17.3	9.8	21.7	13.7	23.6	15.8
Laplace1	9.4	6.1	12.2	10.5	14.0	13.6	12.4	8.7	15.0	13.1	16.8	16.2
Laplace2	8.5	9.4	11.0	11.9	12.8	13.4	11.2	12.0	14.3	14.5	16.2	16.0
LIVI_6	7.3	4.1	9.7	5.2	11.1	6.1	10.3	6.7	12.8	7.8	13.9	8.7
LIVI_7	7.5	5.5	9.7	6.9	10.9	7.8	11.0	8.1	13.1	9.5	14.4	10.4
Madi_to_Mande	11.0	11.5	13.1	12.5	14.3	13.3	13.8	14.1	16.7	15.1	18.3	15.9
Madisonville_1	11.7	10.1	14.6	14.9	16.1	27.3	13.5	12.7	15.8	17.5	16.9	29.9
Mandeville_1	11.0	11.5	13.1	12.5	14.3	13.3	14.9	14.1	19.1	15.1	21.4	15.9
NOE	-5.8	-6.0	0.5	-6.0	10.9	-5.9	-0.1	-6.0	16.0	-6.0	16.0	-5.9
NOE_Metro	-5.1	-5.2	-4.8	-5.1	-3.0	-5.1	-5.0	-5.2	16.0	-5.1	16.0	-5.1
ORLE_13a	14.6	16.4	17.8	21.8	19.4	26.5	17.9	19.0	21.5	24.4	23.8	29.1
PLAQ_16s	19.2	17.8	25.3	25.7	30.0	29.9	21.4	20.4	27.8	28.3	31.8	32.5
Slidell_3	11.5	8.5	15.1	12.8	16.8	14.9	13.4	11.1	16.8	15.4	18.5	17.5
Slidell_4	14.1	10.0	18.3	16.4	20.4	22.2	20.5	12.6	24.3	19.0	26.5	24.8
St_Bernard_developed	-0.1	-0.4	4.3	-0.3	10.6	0.1	2.3	-0.4	16.0	-0.3	16.0	0.1
St_Bernard_wetland	2.4	1.7	5.2	1.7	10.6	1.8	4.5	1.7	16.0	1.7	16.0	1.8
St_Charles_Norco	4.4	3.4	16.0	3.5	16.0	4.5	11.5	3.4	17.3	3.5	18.6	4.5
St_Charles_rest	2.1	1.9	16.0	1.9	16.0	2.1	11.5	1.9	17.3	1.9	18.6	2.1
STJO_10b	10.6	8.9	12.9	11.4	14.1	12.8	13.3	11.5	15.6	14.0	16.7	15.4
STJO_8c	9.4	6.1	12.2	10.5	14.0	13.6	12.7	8.7	15.4	13.1	17.2	16.2
STTA_10e	12.2	8.8	16.2	13.1	18.2	15.3	13.3	11.4	16.7	15.7	18.6	17.9
STTA_9a	10.4	8.0	12.7	9.4	14.0	10.4	13.2	10.6	15.6	12.0	17.5	13.0
TANG_10b	11.0	7.7	13.6	10.6	15.0	12.1	13.7	10.3	16.3	13.2	17.8	14.7
West_Lacombe_2	10.5	7.4	13.5	10.0	15.0	11.5	13.2	10.0	15.8	12.6	17.3	14.1
Evaluation Parameters	Confidence Level:			90%			Levee Design:			No Friction Waves		
	Future Relative Sea Level Rise:			2.6 feet			Levee Overtopping:			No Friction Waves		

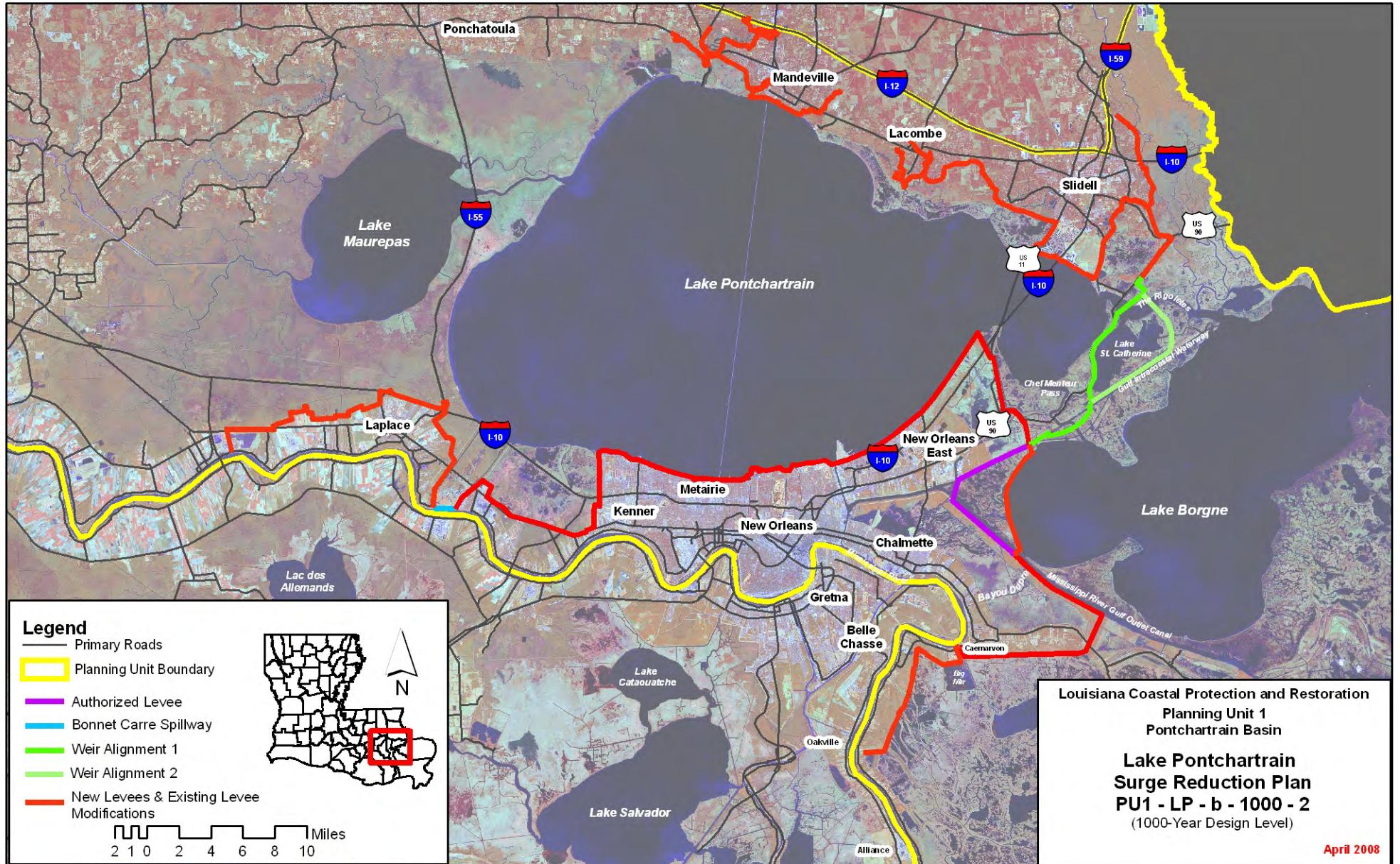
Planning Unit:	1	Alt. No.:	PU1-LP-b-1000-2	Category:	Coastal Restoration + Structural Measures
Alternative Description:	Sustain coastal landscape through restoration and construct barrier-weir and levees to reduce risk to the Lake Pontchartrain area. Raise Lake Pontchartrain and Vicinity and upper Plaquemines levees and construct new levees around Laplace and across the No				
Coastal Component:	R2 (pulsed diversions)		Nonstructural Component:	None	
Structural Component:	See alternative description above.				

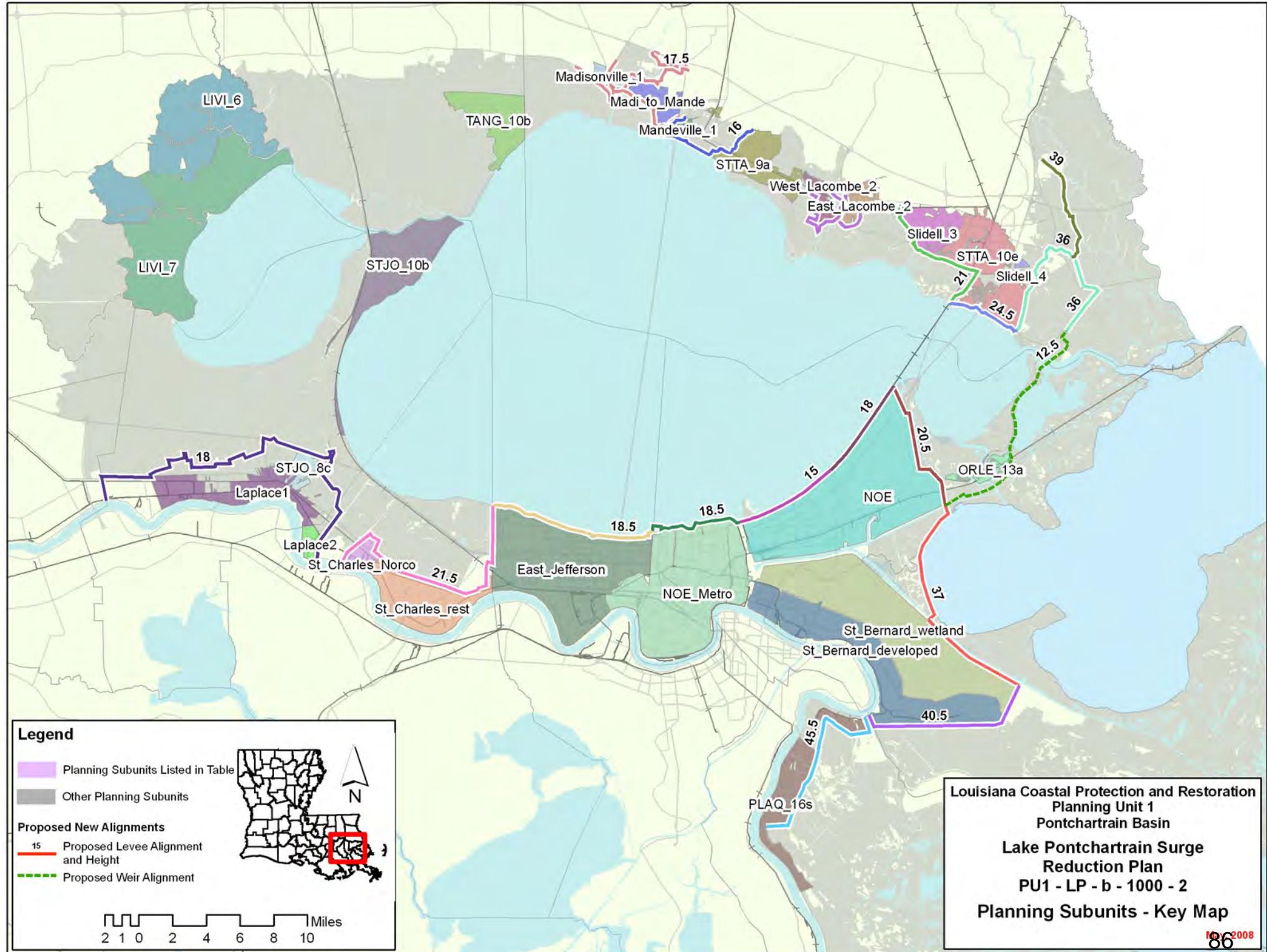
Scenario	Future Conditions (Relative Sea Level Rise (RSLR) and Redevelopment Assumptions)	Uncertainty	Results by Scenario with Uncertainty Bands								
			Life Cycle Cost	Population Impacted	Residual Damages	Gross Regional Output Impacted	Employment Impacted	People's Earned Income Impacted	Archeo. Sites Protected	Historic Properties Protected	Historic Districts Protected
			Ann. Equiv. \$ Millions	Ann. Equiv. #	Ann. Equiv. \$ Millions	Ann. Equiv. \$ Millions	Ann. Equiv. #	Ann. Equiv. \$ Millions	# Sites	# Properties	# Districts
1	Low RSLR High Employment Dispersed Population	High	3,578	31,899	335	202	1,223	55	363	159	52
		Mid		34,031	473	379	1,843	98	333	159	50
		Low		37,940	796	696	3,203	180	303	156	48
2	High RSLR High Employment Dispersed Population	High	3,600	32,500	363	274	1,393	71	363	138	51
		Mid		35,084	532	488	2,152	125	333	135	49
		Low		39,287	981	1,122	4,390	293	303	129	41
3	Low RSLR Business-as-Usual Compact Population	High	3,578	28,396	325	175	1,151	49	363	159	52
		Mid		30,418	452	309	1,713	83	333	159	50
		Low		34,039	751	540	2,881	146	303	156	48
4	High RSLR Business-as-Usual Compact Population	High	3,600	28,718	345	209	1,265	59	363	138	51
		Mid		31,154	497	365	1,899	99	333	135	49
		Low		34,940	885	898	3,789	235	303	129	41

Other Results			Wetlands Created/Protected		Scenario 1	Scenario 2	Scenario 3	Scenario 4
Construction Time (years)			After 50 yrs (% of baseline)		106	104	106	104
Direct Wetland Impacts (acres)			After 100 yrs (% of baseline)		104	95	104	95
Indirect Impacts (unitless)			Present Value of Life Cycle Costs (\$ Millions)					
Spatial Integrity (unitless)			Coastal Component		10,666	10,899	10,666	10,899
Non-Federal Share of Present Value of Life Cycle Costs	Scenario	(\$ Millions)	Nonstructural Component		0	0	0	0
	1 / 2	24,889	Structural Component		59,398	59,605	59,398	59,605
	3 / 4	24,889	Total Project		70,064	70,504	70,064	70,504

2075 Residual Risk / Damages - Low Uncertainty (\$ Millions)								Planning Unit 1 Structural Plan Lake Pontchartrain Surge Reduction Alt 1000-year Design	
Frequency	Scenario 1		Scenario 2		Scenario 3		Scenario 4		
	No Action	With Proj							
10-year	1,215	939	1,472	1,006	1,081	810	1,345	869	
100-year	11,935	2,451	34,000	2,766	9,879	1,601	26,076	1,740	
400-year	89,937	3,853	116,204	4,462	62,688	1,999	80,694	2,223	
1,000-year	118,260	5,330	122,423	6,040	81,963	2,505	84,515	2,726	
2,000-year	122,343	7,208	125,886	8,088	84,351	3,853	86,336	4,096	

Note: Present Value costs and Annual Equivalent numbers are calculated for the period from 2010 to 2075 at common base year 2025 using a 4.78% Federal discount rate. All dollar metrics are based on 2007 price levels.





Alternative: PU1-LP-b-1000-2
Water Surface Elevations (feet - NAVD88 2004.65)

Planning Sub Unit	2010 (Base) Conditions						2060 (Future) Conditions					
	100-yr Event		400-year Event		1,000-yr Event		100-yr Event		400-year Event		1,000-yr Event	
	Without Project	With Project	Without Project	With Project	Without Project	With Project	Without Project	With Project	Without Project	With Project	Without Project	With Project
East_Jefferson	-5.1	-5.3	-1.3	-5.2	4.4	-5.0	-2.6	-5.3	16.0	-5.2	16.0	-5.0
East_Lacombe_2	10.9	4.6	14.3	4.7	15.9	4.9	17.3	4.6	21.7	4.7	23.6	4.9
Laplace1	9.4	4.1	12.2	4.1	14.0	4.5	12.4	4.1	15.0	4.1	16.8	4.5
Laplace2	8.5	4.1	11.0	4.1	12.8	4.5	11.2	4.1	14.3	4.1	16.2	4.5
LIVI_6	7.3	4.1	9.7	5.2	11.1	6.1	10.3	6.7	12.8	7.8	13.9	8.7
LIVI_7	7.5	5.5	9.7	6.9	10.9	7.8	11.0	8.1	13.1	9.5	14.4	10.4
Madi_to_Mande	11.0	5.3	13.1	5.4	14.3	5.8	13.8	5.3	16.7	5.4	18.3	5.8
Madisonville_1	11.7	5.6	14.6	5.7	16.1	6.3	13.5	5.6	15.8	5.7	16.9	6.3
Mandeville_1	11.0	5.9	13.1	6.0	14.3	6.5	14.9	5.9	19.1	6.0	21.4	6.5
NOE	-5.8	-6.0	0.5	-6.0	10.9	-5.9	-0.1	-6.0	16.0	-6.0	16.0	-5.9
NOE_Metro	-5.1	-5.2	-4.8	-5.1	-3.0	-5.1	-5.0	-5.2	16.0	-5.1	16.0	-5.1
ORLE_13a	14.6	16.4	17.8	21.8	19.4	26.5	17.9	19.0	21.5	24.4	23.8	29.1
PLAQ_16s	19.2	-0.1	25.3	0.3	30.0	2.0	21.4	-0.1	27.8	0.3	31.8	2.0
Slidell_3	11.5	4.3	15.1	4.3	16.8	4.6	13.4	4.3	16.8	4.3	18.5	4.6
Slidell_4	14.1	6.2	18.3	6.2	20.4	6.2	20.5	6.2	24.3	6.2	26.5	6.2
St_Bernard_developed	-0.1	-0.4	4.3	-0.3	10.6	0.1	2.3	-0.4	16.0	-0.3	16.0	0.1
St_Bernard_wetland	2.4	1.7	5.2	1.7	10.6	1.8	4.5	1.7	16.0	1.7	16.0	1.8
St_Charles_Norco	4.4	3.4	16.0	3.5	16.0	4.5	11.5	3.4	17.3	3.5	18.6	4.5
St_Charles_rest	2.1	1.9	16.0	1.9	16.0	2.1	11.5	1.9	17.3	1.9	18.6	2.1
STJO_10b	10.6	8.9	12.9	11.4	14.1	12.8	13.3	11.5	15.6	14.0	16.7	15.4
STJO_8c	9.4	4.1	12.2	4.1	14.0	4.5	12.7	4.1	15.4	4.1	17.2	4.5
STTA_10e	12.2	4.3	16.2	4.3	18.2	4.6	13.3	4.3	16.7	4.3	18.6	4.6
STTA_9a	10.4	8.0	12.7	9.4	14.0	10.4	13.2	10.6	15.6	12.0	17.5	13.0
TANG_10b	11.0	7.7	13.6	10.6	15.0	12.1	13.7	10.3	16.3	13.2	17.8	14.7
West_Lacombe_2	10.5	3.6	13.5	3.6	15.0	3.9	13.2	3.6	15.8	3.6	17.3	3.9
Evaluation Parameters	Confidence Level:			90%			Levee Design:			No Friction Waves		
	Future Relative Sea Level Rise:			2.6 feet			Levee Overtopping:			No Friction Waves		

Planning Unit:	1	Alt. No.:	PU1-C-HL-a-100-2	Category:	Comprehensive (Coastal+Structural+Nonstructural)
Alternative Description:	Comprehensive plan--Same coastal and structural measures as Alternative PU1-HL-a-100-2 but with complementary nonstructural measures to reduce residual risk.				
Coastal Component:	R2 (pulsed diversions)		Nonstructural Component:		100-yr complementary measures
Structural Component:	Same as Alternative PU1-HL-a-100-2				

Scenario	Future Conditions (Relative Sea Level Rise (RSLR) and Redevelopment Assumptions)	Uncertainty	Results by Scenario with Uncertainty Bands								
			Life Cycle Cost	Population Impacted	Residual Damages	Gross Regional Output Impacted	Employment Impacted	People's Earned Income Impacted	Archeo. Sites Protected	Historic Properties Protected	Historic Districts Protected
			Ann. Equiv. \$ Millions	Ann. Equiv. #	Ann. Equiv. \$ Millions	Ann. Equiv. \$ Millions	Ann. Equiv. #	Ann. Equiv. \$ Millions	# Sites	# Properties	# Districts
1	Low RSLR High Employment Dispersed Population	High	1,672	31,018	264	129	882	36	342	141	51
		Mid		33,710	399	325	1,594	83	312	138	50
		Low		39,008	873	817	3,709	214	282	132	43
2	High RSLR High Employment Dispersed Population	High	1,687	31,392	281	196	1,048	51	342	138	51
		Mid		34,415	445	412	1,837	105	312	135	49
		Low		39,947	1,014	1,102	4,498	289	282	129	41
3	Low RSLR Business-as-Usual Compact Population	High	1,640	27,282	257	129	907	36	342	141	51
		Mid		29,896	388	284	1,551	74	312	138	50
		Low		34,845	831	685	3,480	183	282	132	43
4	High RSLR Business-as-Usual Compact Population	High	1,654	27,491	270	156	994	44	342	138	51
		Mid		30,375	419	326	1,687	86	312	135	49
		Low		35,460	925	928	4,095	243	282	129	41

Other Results			Wetlands Created/Protected		Scenario 1	Scenario 2	Scenario 3	Scenario 4	
Construction Time (years)			After 50 yrs (% of baseline)		106	104	106	104	
Direct Wetland Impacts (acres)			After 100 yrs (% of baseline)		104	95	104	95	
Indirect Impacts (unitless)			Present Value of Life Cycle Costs (\$ Millions)						
Spatial Integrity (unitless)			Coastal Component		10,666	10,899	10,666	10,899	
Non-Federal Share of Present Value of Life Cycle Costs	Scenario		Nonstructural Component		2,896	2,896	2,254	2,254	
	1 / 2	11,777	11,879	Structural Component		19,194	19,251	19,194	19,251
	3 / 4	11,553	11,654	Total Project		32,756	33,046	32,114	32,405

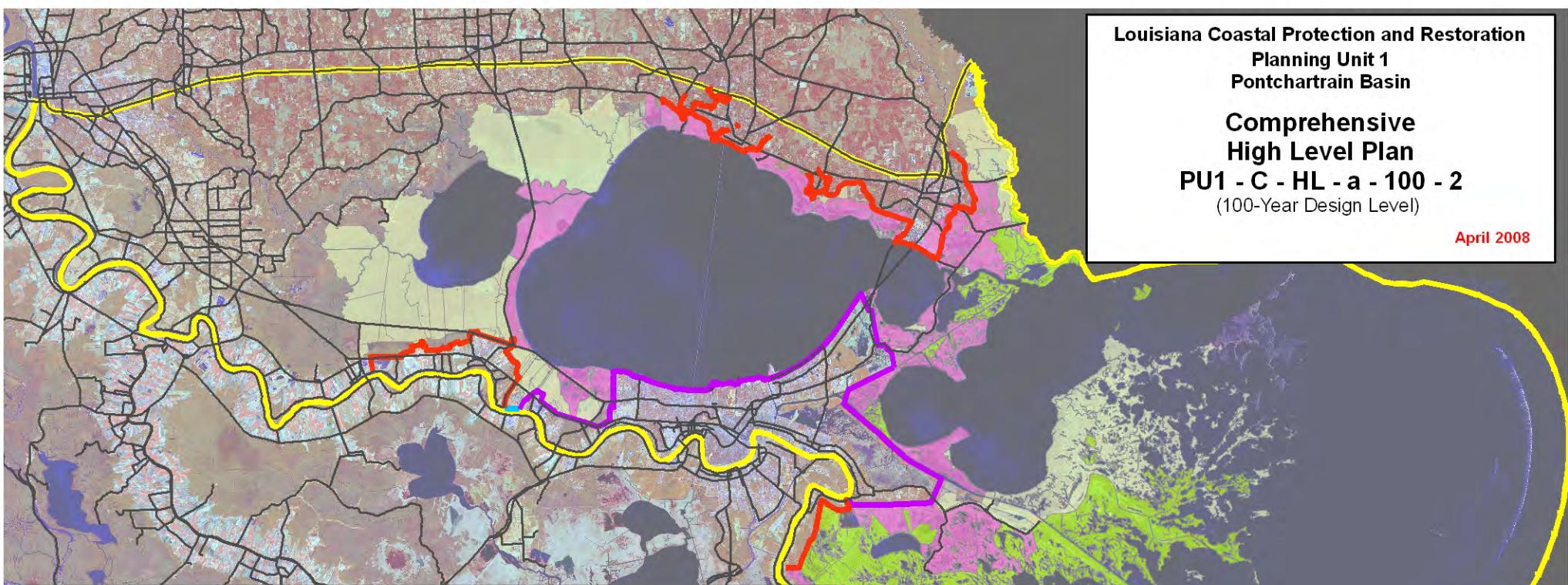
2075 Residual Risk / Damages - Low Uncertainty (\$ Millions)								Planning Unit 1 Comprehensive Plan High Level Alt 100-year Design	
Frequency	Scenario 1		Scenario 2		Scenario 3		Scenario 4		
	No Action	With Proj							
10-year	1,215	717	1,472	729	1,081	592	1,345	599	
100-year	11,935	1,368	34,000	2,323	9,879	1,106	26,076	1,406	
400-year	89,937	49,813	116,204	50,452	62,688	38,075	80,694	38,237	
1,000-year	118,260	69,880	122,423	71,216	81,963	51,501	84,515	51,964	
2,000-year	122,343	114,192	125,886	115,532	84,351	80,011	86,336	80,443	

Note: Present Value costs and Annual Equivalent numbers are calculated for the period from 2010 to 2075 at common base year 2025 using a 4.7%/8% Federal discount rate. All dollar metrics are based on 2007 price levels.

**Comprehensive
High Level Plan**

PU1 - C - HL - a - 100 - 2
(100-Year Design Level)

April 2008



Legend

- Primary Roads
- Planning Unit 1
- New Levees & Existing Levee Modifications
- Authorized 100-Year Levee
- Bonnet Carré Spillway

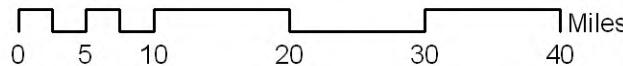
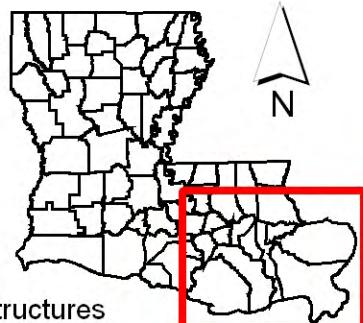
Voluntary Nonstructural Measures

Inundation Zones:

- Water Depths <14 feet, Raise-In-Place of Structures
- Water Depths ≥14 feet, Buyout of Structures

Velocity Zones:

- Buyout of Structures



NOTE:

"Velocity zones (Vzones): Areas exposed to storm surge velocity, defined by FEMA, closest to shoreline subject to wave action, high-velocity flows, and erosion from a 100-year (1 percent annual chance) flood. Structures in Vzones would be eligible for voluntary buyout."

Planning Unit:	1	Alt. No.:	PU1-C-HL-a-100-3	Category:	Comprehensive (Coastal+Structural+Nonstructural)
Alternative Description:	Comprehensive plan--Same coastal and structural measures as Alternative PU1-HL-a-100-3 but with complementary nonstructural measures to reduce residual risk.				
Coastal Component:	R2 (pulsed diversions)		Nonstructural Component:		100-yr complementary measures
Structural Component:	Same as Alternative PU1-HL-a-100-3				

Scenario	Future Conditions (Relative Sea Level Rise (RSLR) and Redevelopment Assumptions)	Uncertainty	Results by Scenario with Uncertainty Bands								
			Life Cycle Cost	Population Impacted	Residual Damages	Gross Regional Output Impacted	Employment Impacted	People's Earned Income Impacted	Archeo. Sites Protected	Historic Properties Protected	Historic Districts Protected
			Ann. Equiv. \$ Millions	Ann. Equiv. #	Ann. Equiv. \$ Millions	Ann. Equiv. \$ Millions	Ann. Equiv. #	Ann. Equiv. \$ Millions	# Sites	# Properties	# Districts
1	Low RSLR High Employment Dispersed Population	High	31,233 1,514	263	129	874	36	335	137	51	
		Mid		34,023	398	329	1,601	84	305	133	50
		Low		39,309	870	825	3,717	216	275	126	43
2	High RSLR High Employment Dispersed Population	High	31,712 1,528	282	206	1,066	54	335	134	51	
		Mid		34,829	448	428	1,875	109	305	128	48
		Low		40,352	1,020	1,120	4,540	294	275	124	40
3	Low RSLR Business-as-Usual Compact Population	High	27,407 1,483	255	128	897	36	335	137	51	
		Mid		30,093	385	286	1,549	75	305	133	50
		Low		35,048	827	687	3,468	184	275	126	43
4	High RSLR Business-as-Usual Compact Population	High	27,686 1,496	270	162	1,000	46	335	134	51	
		Mid		30,641	419	338	1,718	90	305	128	48
		Low		35,731	926	941	4,121	248	275	124	40

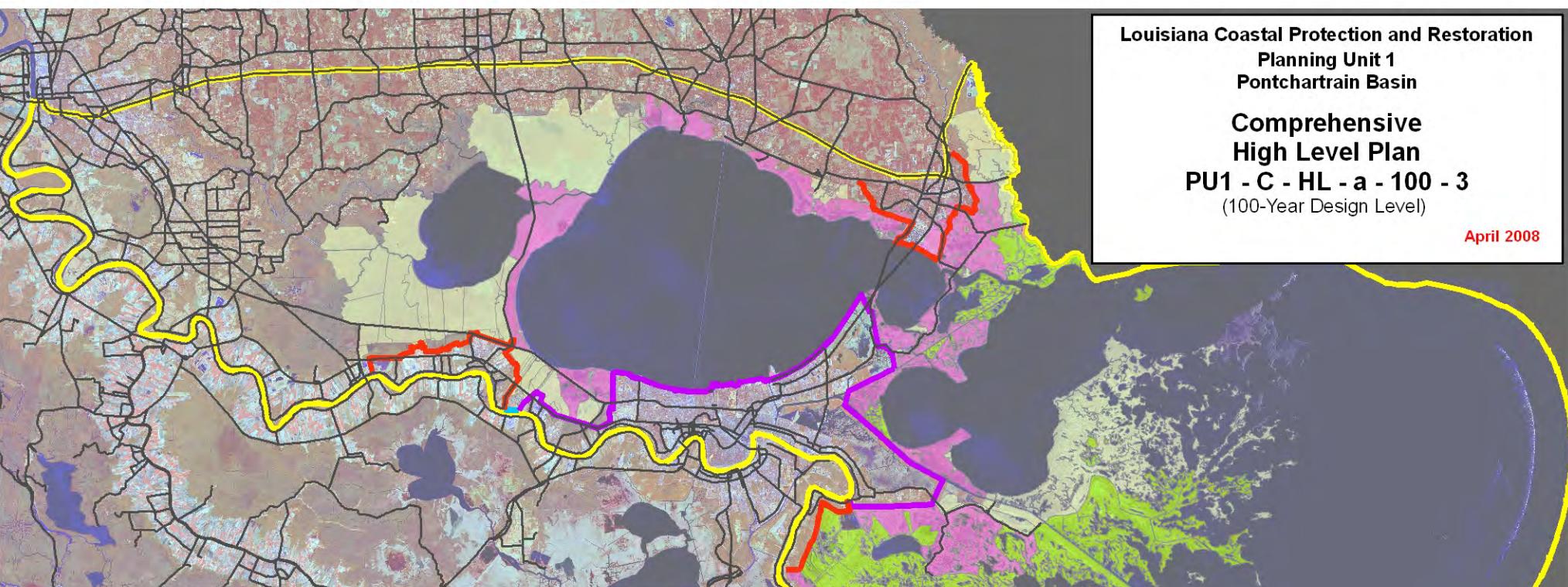
Other Results			Wetlands Created/Protected		Scenario 1	Scenario 2	Scenario 3	Scenario 4	
Construction Time (years)			After 50 yrs (% of baseline)		106	104	106	104	
Direct Wetland Impacts (acres)			After 100 yrs (% of baseline)		104	95	104	95	
Indirect Impacts (unitless)			Present Value of Life Cycle Costs (\$ Millions)						
Spatial Integrity (unitless)			Coastal Component		10,666	10,899	10,666	10,899	
Non-Federal Share of Present Value of Life Cycle Costs	Scenario		Nonstructural Component		3,102	3,102	2,483	2,483	
	1 / 2	10,600	10,694	Structural Component		15,893	15,928	15,893	15,928
	3 / 4	10,384	10,477	Total Project		29,661	29,929	29,042	29,310

2075 Residual Risk / Damages - Low Uncertainty (\$ Millions)								Planning Unit 1 Comprehensive Plan High Level Alt 100-year Design	
Frequency	Scenario 1		Scenario 2		Scenario 3		Scenario 4		
	No Action	With Proj							
10-year	1,215	721	1,472	736	1,081	590	1,345	599	
100-year	11,935	1,440	34,000	2,774	9,879	1,157	26,076	1,712	
400-year	89,937	49,754	116,204	50,953	62,688	37,969	80,694	38,452	
1,000-year	118,260	70,154	122,423	72,279	81,963	51,581	84,515	52,420	
2,000-year	122,343	114,933	125,886	117,538	84,351	80,285	86,336	81,502	

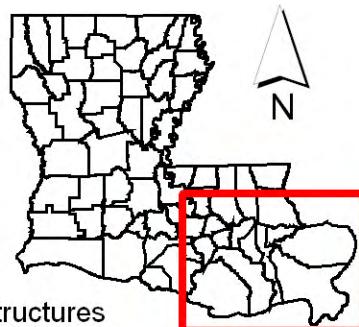
Note: Present Value costs and Annual Equivalent numbers are calculated for the period from 2010 to 2075 at common base year 2025 using a 4.7%/8% Federal discount rate. All dollar metrics are based on 2007 price levels.

Comprehensive
High Level PlanPU1 - C - HL - a - 100 - 3
(100-Year Design Level)

April 2008

**Legend**

- Primary Roads
- Planning Unit 1
- New Levees & Existing Levee Modifications
- Authorized 100-Year Levee
- Bonnet Carré Spillway
- Voluntary Nonstructural Measures

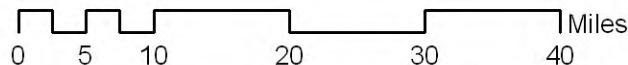


Inundation Zones:

- Water Depths <14 feet, Raise-In-Place of Structures
- Water Depths ≥14 feet, Buyout of Structures

Velocity Zones:

- Buyout of Structures

**NOTE:**

"Velocity zones (Vzones): Areas exposed to storm surge velocity, defined by FEMA, closest to shoreline subject to wave action, high-velocity flows, and erosion from a 100-year (1 percent annual chance) flood. Structures in Vzones would be eligible for voluntary buyout."

Planning Unit:	1	Alt. No.:	PU1-C-HL-b-400-2	Category:	Comprehensive (Coastal+Structural+Nonstructural)
Alternative Description:	Comprehensive plan--Same coastal and structural measures as Alternative PU1-HL-b-400-2 but with complementary nonstructural measures to reduce residual risk.				
Coastal Component:	R2 (pulsed diversions)		Nonstructural Component:		400-yr complementary measures
Structural Component:	Same as Alternative PU1-HL-b-400-2				

Scenario	Future Conditions (Relative Sea Level Rise (RSLR) and Redevelopment Assumptions)	Uncertainty	Results by Scenario with Uncertainty Bands								
			Life Cycle Cost	Population Impacted	Residual Damages	Gross Regional Output Impacted	Employment Impacted	People's Earned Income Impacted	Archeo. Sites Protected	Historic Properties Protected	Historic Districts Protected
			Ann. Equiv. \$ Millions	Ann. Equiv. #	Ann. Equiv. \$ Millions	Ann. Equiv. \$ Millions	Ann. Equiv. #	Ann. Equiv. \$ Millions	# Sites	# Properties	# Districts
1	Low RSLR High Employment Dispersed Population	High	3,238	31,154	279	136	924	37	344	158	52
		Mid		33,173	395	292	1,494	76	314	153	51
		Low		37,294	708	610	2,864	159	284	148	50
2	High RSLR High Employment Dispersed Population	High	3,262	31,611	299	193	1,076	51	344	158	51
		Mid		34,153	449	401	1,801	104	314	150	49
		Low		38,583	890	1,032	4,031	271	284	142	46
3	Low RSLR Business-as-Usual Compact Population	High	3,203	27,820	274	140	964	39	344	158	52
		Mid		29,799	387	268	1,503	72	314	153	51
		Low		33,628	683	504	2,688	136	284	148	50
4	High RSLR Business-as-Usual Compact Population	High	3,228	28,091	292	173	1,075	49	344	158	51
		Mid		30,492	429	326	1,690	88	314	150	49
		Low		34,510	816	865	3,597	225	284	142	46

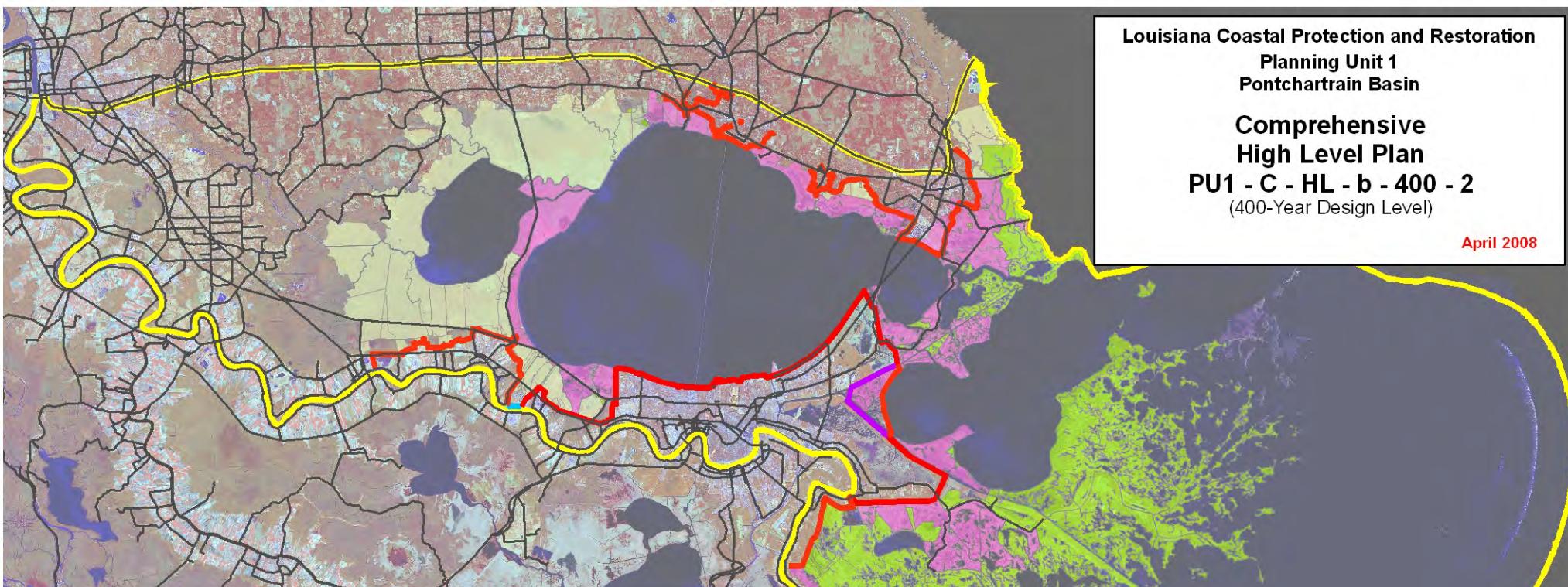
Other Results			Wetlands Created/Protected		Scenario 1	Scenario 2	Scenario 3	Scenario 4
Construction Time (years)			After 50 yrs (% of baseline)		106	104	106	104
Direct Wetland Impacts (acres)			After 100 yrs (% of baseline)		104	95	104	95
Indirect Impacts (unitless)			Present Value of Life Cycle Costs (\$ Millions)					
Spatial Integrity (unitless)			Coastal Component		10,666	10,899	10,666	10,899
Non-Federal Share of Present Value of Life Cycle Costs	Scenario	(\$ Millions)		Nonstructural Component		3,182	3,182	2,506
	1 / 2	22,623	22,788	Structural Component		49,569	49,808	49,569
	3 / 4	22,386	22,552	Total Project		63,416	63,889	62,740

2075 Residual Risk / Damages - Low Uncertainty (\$ Millions)								Planning Unit 1 Comprehensive Plan High Level Alt 400-year Design	
Frequency	Scenario 1		Scenario 2		Scenario 3		Scenario 4		
	No Action	With Proj							
10-year	1,215	703	1,472	712	1,081	585	1,345	589	
100-year	11,935	980	34,000	1,106	9,879	837	26,076	912	
400-year	89,937	1,531	116,204	2,491	62,688	1,178	80,694	1,432	
1,000-year	118,260	5,672	122,423	7,379	81,963	4,049	84,515	4,586	
2,000-year	122,343	22,470	125,886	23,948	84,351	16,517	86,336	16,966	

Note: Present Value costs and Annual Equivalent numbers are calculated for the period from 2010 to 2075 at common base year 2025 using a 4.7%/8% Federal discount rate. All dollar metrics are based on 2007 price levels.

Comprehensive
High Level PlanPU1 - C - HL - b - 400 - 2
(400-Year Design Level)

April 2008

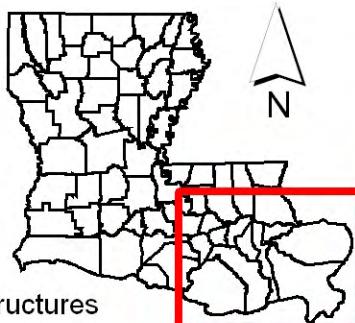
**Legend**

- Primary Roads
- Planning Unit 1
- New Levees & Existing Levee Modifications
- Authorized 100-Year Levee
- Bonnet Carre Spillway

Voluntary Nonstructural Measures

Inundation Zones:

- Water Depths <14 feet, Raise-In-Place of Structures
- Water Depths ≥14 feet, Buyout of Structures



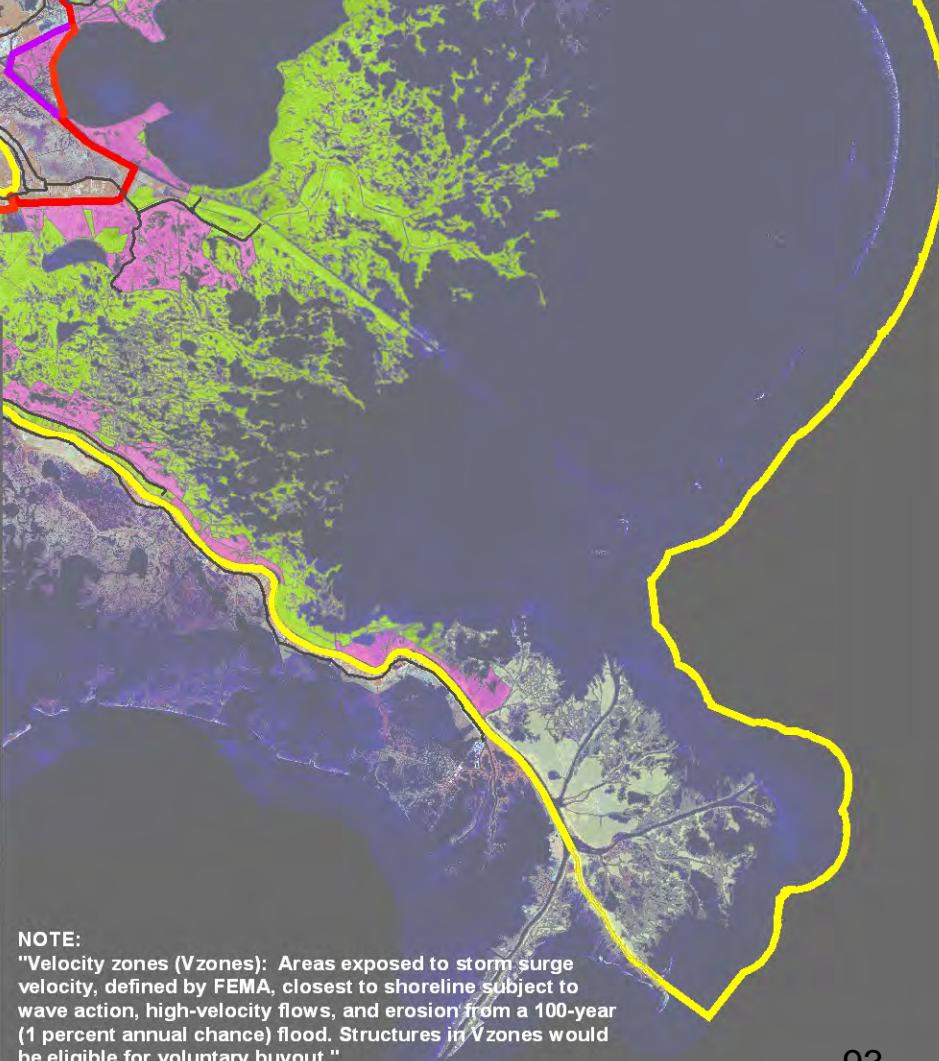
Velocity Zones:

- Buyout of Structures



NOTE:

"Velocity zones (Vzones): Areas exposed to storm surge velocity, defined by FEMA, closest to shoreline subject to wave action, high-velocity flows, and erosion from a 100-year (1 percent annual chance) flood. Structures in Vzones would be eligible for voluntary buyout."



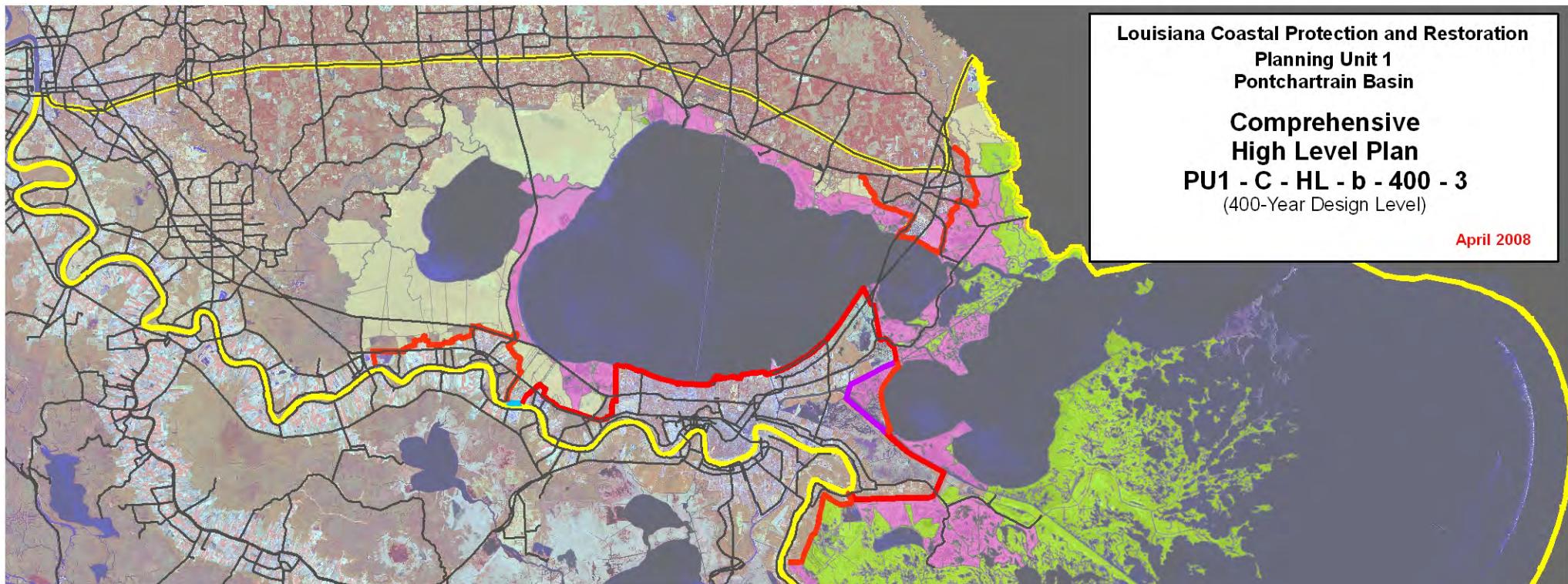
Planning Unit:	1	Alt. No.:	PU1-C-HL-b-400-3	Category:	Comprehensive (Coastal+Structural+Nonstructural)
Alternative Description:	Comprehensive plan--Same coastal and structural measures as Alternative PU1-HL-b-400-3 but with complementary nonstructural measures to reduce residual risk.				
Coastal Component:	R2 (pulsed diversions)		Nonstructural Component:		400-yr complementary measures
Structural Component:	Same as Alternative PU1-HL-b-400-3				

Scenario	Future Conditions (Relative Sea Level Rise (RSLR) and Redevelopment Assumptions)	Uncertainty	Results by Scenario with Uncertainty Bands								
			Life Cycle Cost	Population Impacted	Residual Damages	Gross Regional Output Impacted	Employment Impacted	People's Earned Income Impacted	Archeo. Sites Protected	Historic Properties Protected	Historic Districts Protected
			Ann. Equiv. \$ Millions	Ann. Equiv. #	Ann. Equiv. \$ Millions	Ann. Equiv. \$ Millions	Ann. Equiv. #	Ann. Equiv. \$ Millions	# Sites	# Properties	# Districts
1	Low RSLR High Employment Dispersed Population	High	3,011	31,321	277	134	910	37	307	143	51
		Mid		33,435	391	291	1,481	76	307	143	50
		Low		37,636	704	610	2,853	159	277	140	48
2	High RSLR High Employment Dispersed Population	High	3,034	31,863	297	192	1,063	51	337	143	51
		Mid		34,496	446	402	1,796	104	307	141	49
		Low		39,009	889	1,036	4,037	272	277	133	45
3	Low RSLR Business-as-Usual Compact Population	High	2,986	27,914	271	138	948	38	307	143	51
		Mid		29,965	383	267	1,489	71	307	143	50
		Low		33,867	678	504	2,676	136	277	140	48
4	High RSLR Business-as-Usual Compact Population	High	3,009	28,241	289	172	1,061	49	337	143	51
		Mid		30,714	426	326	1,683	89	307	141	49
		Low		34,803	812	867	3,600	227	277	133	45

Other Results			Wetlands Created/Protected		Scenario 1	Scenario 2	Scenario 3	Scenario 4
Construction Time (years)			After 50 yrs (% of baseline)		106	104	106	104
Direct Wetland Impacts (acres)			After 100 yrs (% of baseline)		104	95	104	95
Indirect Impacts (unitless)			Present Value of Life Cycle Costs (\$ Millions)					
Spatial Integrity (unitless)			Coastal Component		10,666	10,899	10,666	10,899
Non-Federal Share of Present Value of Life Cycle Costs	Scenario	(\$ Millions)		Nonstructural Component		3,415	3,415	2,929
	1 / 2	20,985	21,140	Structural Component		44,895	45,103	44,895
	3 / 4	20,815	20,970	Total Project		58,975	59,417	58,489

2075 Residual Risk / Damages - Low Uncertainty (\$ Millions)								Planning Unit 1 Comprehensive Plan High Level Alt 400-year Design	
Frequency	Scenario 1		Scenario 2		Scenario 3		Scenario 4		
	No Action	With Proj							
10-year	1,215	708	1,472	721	1,081	584	1,345	591	
100-year	11,935	1,023	34,000	1,248	9,879	869	26,076	1,029	
400-year	89,937	1,793	116,204	3,387	62,688	1,389	80,694	2,019	
1,000-year	118,260	6,558	122,423	9,086	81,963	4,590	84,515	5,527	
2,000-year	122,343	23,779	125,886	26,611	84,351	17,141	86,336	18,415	

Note: Present Value costs and Annual Equivalent numbers are calculated for the period from 2010 to 2075 at common base year 2025 using a 4.7%/8% Federal discount rate. All dollar metrics are based on 2007 price levels.



Louisiana Coastal Protection and Restoration

Planning Unit 1
Pontchartrain Basin

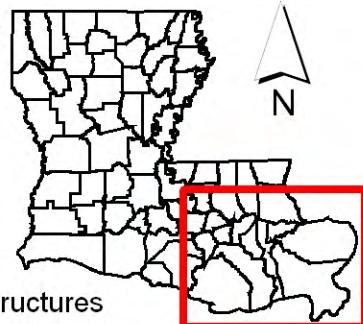
Comprehensive High Level Plan

PU1 - C - HL - b - 400 - 3
(400-Year Design Level)

April 2008

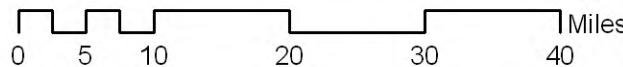
Legend

- Primary Roads
- Planning Unit 1
- New Levees & Existing Levee Modifications
- Authorized 100-Year Levee
- Bonnet Carré Spillway
- Voluntary Nonstructural Measures



NOTE:

"Velocity zones (Vzones): Areas exposed to storm surge velocity, defined by FEMA, closest to shoreline subject to wave action, high-velocity flows, and erosion from a 100-year (1 percent annual chance) flood. Structures in Vzones would be eligible for voluntary buyout."



Planning Unit:	1	Alt. No.:	PU1-C-LP-a-100-1	Category:	Comprehensive (Coastal+Structural+Nonstructural)
Alternative Description:	Comprehensive plan--Same coastal and structural measures as Alternative PU1-LP-a-100-1 but with complementary nonstructural measures to reduce residual risk.				
Coastal Component:	R2 (pulsed diversions)		Nonstructural Component:		100-yr complementary measures
Structural Component:	Same as Alternative PU1-LP-a-100-1				

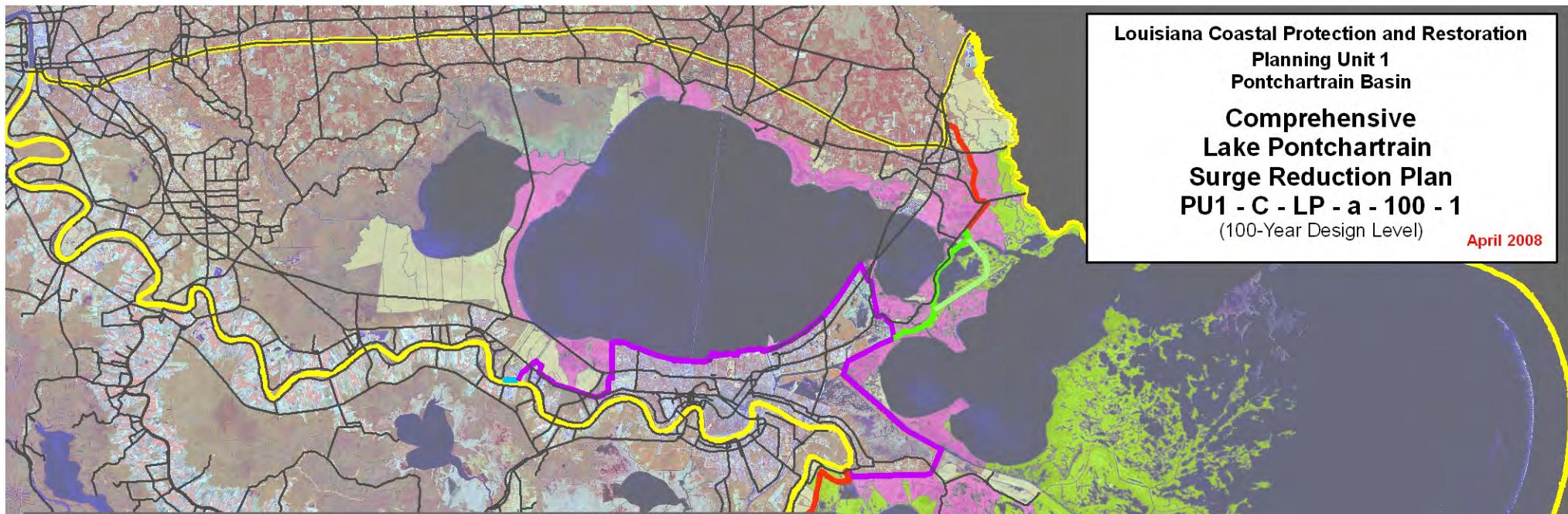
Scenario	Future Conditions (Relative Sea Level Rise (RSLR) and Redevelopment Assumptions)	Uncertainty	Results by Scenario with Uncertainty Bands								
			Life Cycle Cost	Population Impacted	Residual Damages	Gross Regional Output Impacted	Employment Impacted	People's Earned Income Impacted	Archeo. Sites Protected	Historic Properties Protected	Historic Districts Protected
			Ann. Equiv. \$ Millions	Ann. Equiv. #	Ann. Equiv. \$ Millions	Ann. Equiv. \$ Millions	Ann. Equiv. #	Ann. Equiv. \$ Millions	# Sites	# Properties	# Districts
1	Low RSLR High Employment Dispersed Population	High	1,100	31,885	271	132	825	35	325	140	51
		Mid		34,496	387	299	1,421	78	295	133	50
		Low		39,725	744	710	3,102	183	265	127	43
2	High RSLR High Employment Dispersed Population	High	1,118	32,929	295	211	1,068	59	325	136	51
		Mid		36,027	450	451	1,815	114	295	129	45
		Low		41,341	933	1,115	4,183	287	265	123	40
3	Low RSLR Business-as-Usual Compact Population	High	1,071	28,339	264	131	870	36	325	140	51
		Mid		30,883	378	263	1,411	71	295	133	50
		Low		35,788	712	557	2,869	152	265	127	43
4	High RSLR Business-as-Usual Compact Population	High	1,088	29,053	285	175	1,022	50	325	136	51
		Mid		32,008	428	333	1,644	92	295	129	45
		Low		36,932	851	891	3,701	234	265	123	40

Other Results			Wetlands Created/Protected		Scenario 1	Scenario 2	Scenario 3	Scenario 4	
Construction Time (years)			After 50 yrs (% of baseline)		106	104	106	104	
Direct Wetland Impacts (acres)			After 100 yrs (% of baseline)		104	95	104	95	
Indirect Impacts (unitless)			Present Value of Life Cycle Costs (\$ Millions)						
Spatial Integrity (unitless)			Coastal Component		10,666	10,899	10,666	10,899	
Non-Federal Share of Present Value of Life Cycle Costs	Scenario		Nonstructural Component		3,869	3,869	3,291	3,291	
	1 / 2	7,609	7,729	Structural Component		7,024	7,132	7,024	7,132
	3 / 4	7,407	7,527	Total Project		21,559	21,901	20,981	21,323

2075 Residual Risk / Damages - Low Uncertainty (\$ Millions)								Planning Unit 1 Comprehensive Plan Lake Pontchartrain Surge Reduction Alt 100-year Design	
Frequency	Scenario 1		Scenario 2		Scenario 3		Scenario 4		
	No Action	With Proj							
10-year	1,215	723	1,472	784	1,081	594	1,345	646	
100-year	11,935	1,703	34,000	3,524	9,879	1,516	26,076	2,955	
400-year	89,937	16,335	116,204	20,709	62,688	11,352	80,694	14,331	
1,000-year	118,260	50,410	122,423	54,445	81,963	35,865	84,515	38,371	
2,000-year	122,343	104,180	125,886	107,583	84,351	73,593	86,336	75,637	

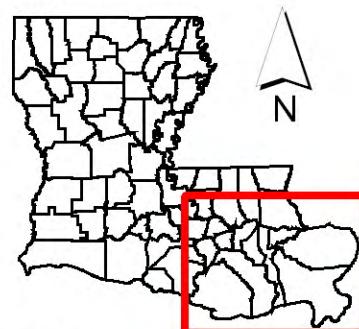
Note: Present Value costs and Annual Equivalent numbers are calculated for the period from 2010 to 2075 at common base year 2025 using a 4.7%/8% Federal discount rate. All dollar metrics are based on 2007 price levels.

Louisiana Coastal Protection and Restoration
 Planning Unit 1
 Pontchartrain Basin
**Comprehensive
 Lake Pontchartrain
 Surge Reduction Plan**
PU1 - C - LP - a - 100 - 1
 (100-Year Design Level) April 2008



Legend

- Primary Roads
- Planning Unit 1
- New Levees & Existing Levee Modifications
- Authorized Levee
- Bonnet Carre Spillway
- Weir Alignment 2
- Weir Alignment 1
- Voluntary Nonstructural Measures

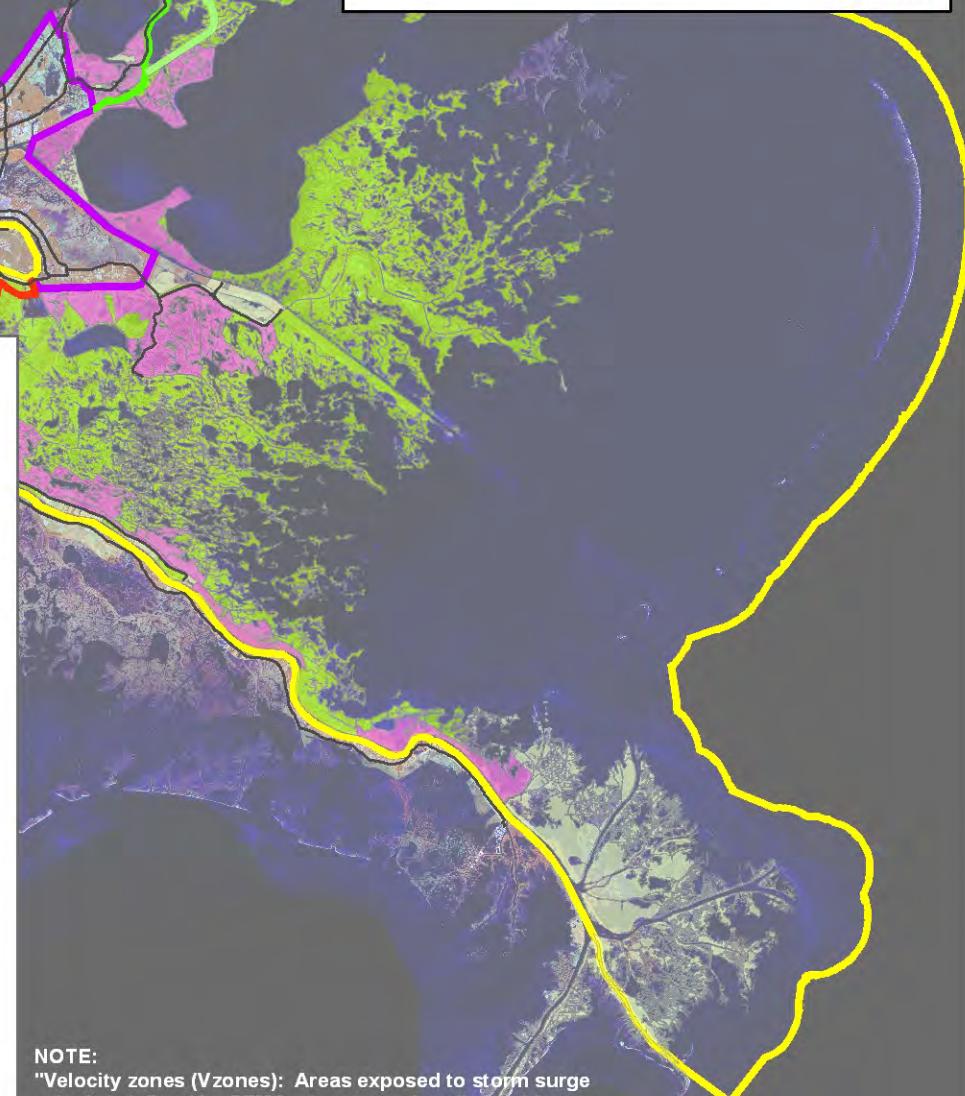
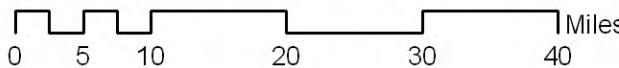


Inundation Zones:

- Water Depths <14 feet, Raise-In-Place of Structures
- Water Depths \geq 14 feet, Buyout of Structures

Velocity Zones:

- Buyout of Structures



NOTE:

"Velocity zones (Vzones): Areas exposed to storm surge velocity, defined by FEMA, closest to shoreline subject to wave action, high-velocity flows, and erosion from a 100-year (1 percent annual chance) flood. Structures in Vzones would be eligible for voluntary buyout."

Planning Unit:	1	Alt. No.:	PU1-C-LP-a-100-2	Category:	Comprehensive (Coastal+Structural+Nonstructural)
Alternative Description:	Comprehensive plan--Same coastal and structural measures as Alternative PU1-LP-a-100-2 but with complementary nonstructural measures to reduce residual risk.				
Coastal Component:	R2 (pulsed diversions)		Nonstructural Component:		100-yr complementary measures
Structural Component:	Same as Alternative PU1-LP-a-100-2				

Scenario	Future Conditions (Relative Sea Level Rise (RSLR) and Redevelopment Assumptions)	Uncertainty	Results by Scenario with Uncertainty Bands								
			Life Cycle Cost	Population Impacted	Residual Damages	Gross Regional Output Impacted	Employment Impacted	People's Earned Income Impacted	Archeo. Sites Protected	Historic Properties Protected	Historic Districts Protected
			Ann. Equiv. \$ Millions	Ann. Equiv. #	Ann. Equiv. \$ Millions	Ann. Equiv. \$ Millions	Ann. Equiv. #	Ann. Equiv. \$ Millions	# Sites	# Properties	# Districts
1	Low RSLR High Employment Dispersed Population	High	1,834	30,998	276	133	884	37	361	145	51
		Mid		33,212	399	292	1,479	76	331	137	50
		Low		37,747	751	661	3,057	172	301	134	43
2	High RSLR High Employment Dispersed Population	High	1,853	31,467	294	184	1,017	49	361	138	51
		Mid		34,100	446	394	1,746	100	331	135	49
		Low		38,891	905	1,017	4,049	267	301	129	41
3	Low RSLR Business-as-Usual Compact Population	High	1,798	27,582	270	137	943	38	361	145	51
		Mid		29,762	391	269	1,512	72	331	137	50
		Low		33,915	721	544	2,892	147	301	134	43
4	High RSLR Business-as-Usual Compact Population	High	1,817	27,843	285	165	1,038	47	361	138	51
		Mid		30,381	428	316	1,669	85	331	135	49
		Low		34,669	832	842	3,646	221	301	129	41

Other Results			Wetlands Created/Protected		Scenario 1	Scenario 2	Scenario 3	Scenario 4
Construction Time (years)			After 50 yrs (% of baseline)		106	104	106	104
Direct Wetland Impacts (acres)			After 100 yrs (% of baseline)		104	95	104	95
Indirect Impacts (unitless)			Present Value of Life Cycle Costs (\$ Millions)					
Spatial Integrity (unitless)			Coastal Component		10,666	10,899	10,666	10,899
Non-Federal Share of Present Value of Life Cycle Costs	Scenario	(\$ Millions)		Nonstructural Component		2,820	2,820	2,113
	1 / 2	12,792	12,923	Structural Component		22,443	22,582	22,443
	3 / 4	12,545	12,675	Total Project		35,929	36,301	35,222

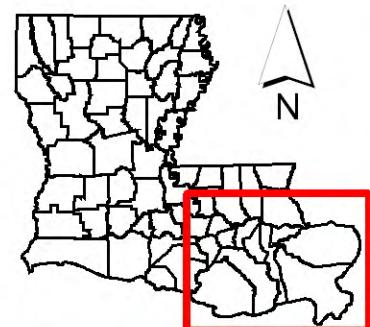
2075 Residual Risk / Damages - Low Uncertainty (\$ Millions)								Planning Unit 1 Comprehensive Plan Lake Pontchartrain Surge Reduction Alt 100-year Design	
Frequency	Scenario 1		Scenario 2		Scenario 3		Scenario 4		
	No Action	With Proj							
10-year	1,215	713	1,472	734	1,081	593	1,345	612	
100-year	11,935	1,109	34,000	1,310	9,879	952	26,076	1,062	
400-year	89,937	14,016	116,204	14,462	62,688	9,602	80,694	9,803	
1,000-year	118,260	47,839	122,423	48,458	81,963	33,836	84,515	34,043	
2,000-year	122,343	102,967	125,886	103,784	84,351	72,511	86,336	72,749	

Note: Present Value costs and Annual Equivalent numbers are calculated for the period from 2010 to 2075 at common base year 2025 using a 4.7%/8% Federal discount rate. All dollar metrics are based on 2007 price levels.



Legend

- Primary Roads
- Planning Unit 1
- New Levees & Existing Levee Modifications
- Authorized Levee
- Bonnet Carré Spillway
- Weir Alignment 1
- Weir Alignment 2
- Voluntary Nonstructural Measures

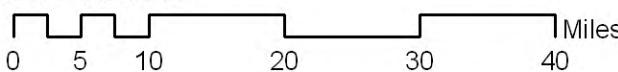


Inundation Zones:

- Water Depths <14 feet, Raise-In-Place of Structures
- Water Depths ≥14 feet, Buyout of Structures

Velocity Zones:

- Buyout of Structures



NOTE:

"Velocity zones (Vzones): Areas exposed to storm surge velocity, defined by FEMA, closest to shoreline subject to wave action, high-velocity flows, and erosion from a 100-year (1 percent annual chance) flood. Structures in Vzones would be eligible for voluntary buyout."

Planning Unit:	1	Alt. No.:	PU1-C-LP-a-100-3	Category:	Comprehensive (Coastal+Structural+Nonstructural)
Alternative Description:	Comprehensive plan--Same coastal and structural measures as Alternative PU1-LP-a-100-3 but with complementary nonstructural measures to reduce residual risk.				
Coastal Component:	R2 (pulsed diversions)		Nonstructural Component:		100-yr complementary measures
Structural Component:	Same as Alternative PU1-LP-a-100-3				

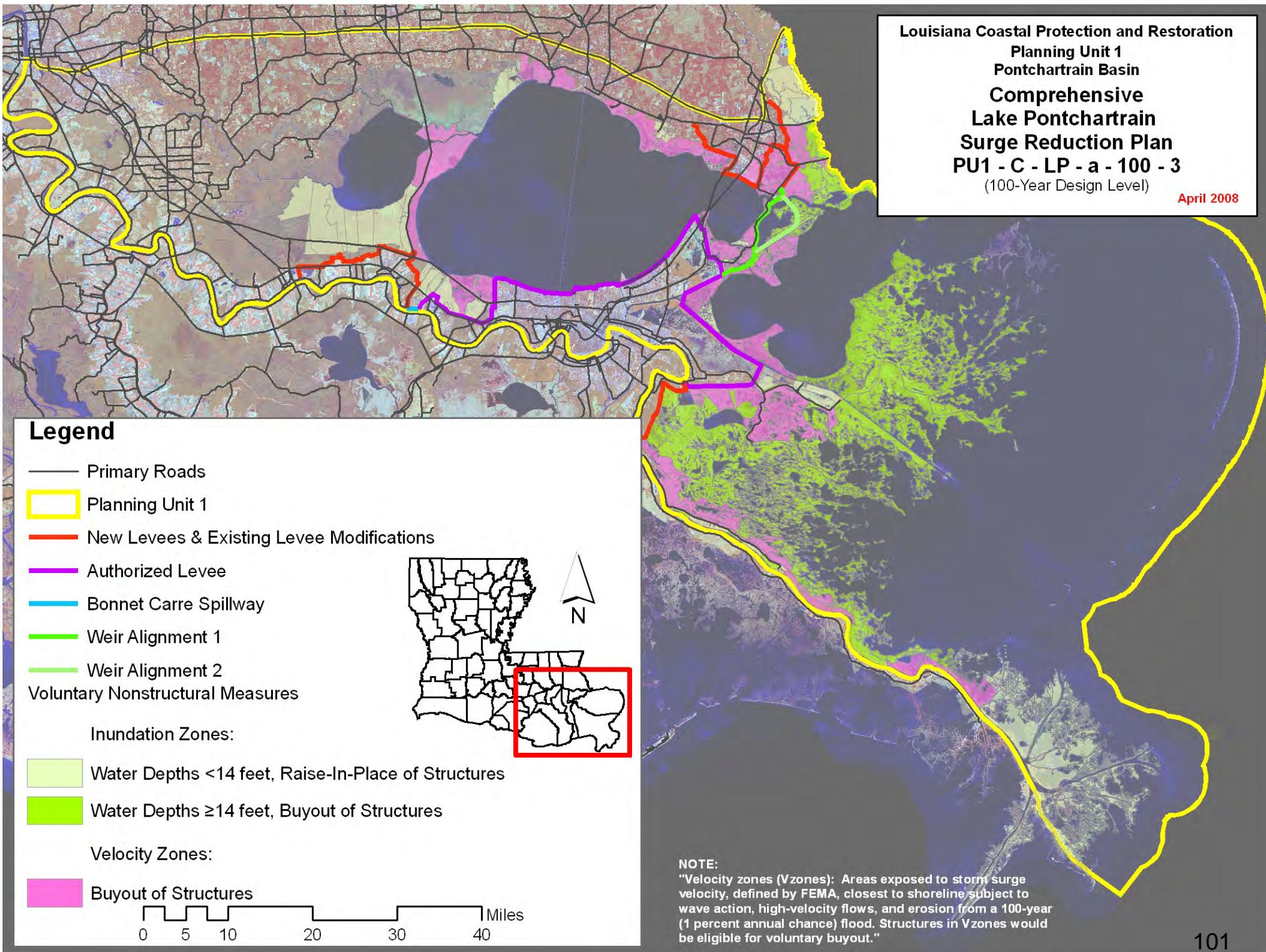
Scenario	Future Conditions (Relative Sea Level Rise (RSLR) and Redevelopment Assumptions)	Uncertainty	Results by Scenario with Uncertainty Bands								
			Life Cycle Cost	Population Impacted	Residual Damages	Gross Regional Output Impacted	Employment Impacted	People's Earned Income Impacted	Archeo. Sites Protected	Historic Properties Protected	Historic Districts Protected
			Ann. Equiv. \$ Millions	Ann. Equiv. #	Ann. Equiv. \$ Millions	Ann. Equiv. \$ Millions	Ann. Equiv. #	Ann. Equiv. \$ Millions	# Sites	# Properties	# Districts
1	Low RSLR High Employment Dispersed Population	High	1,773	31,162	275	134	876	36	354	143	51
		Mid		33,433	397	294	1,477	76	324	133	50
		Low		37,976	750	667	3,068	174	294	127	43
2	High RSLR High Employment Dispersed Population	High	1,795	31,715	294	189	1,030	51	354	137	51
		Mid		34,395	447	402	1,763	102	324	128	45
		Low		39,208	909	1,031	4,081	271	294	123	40
3	Low RSLR Business-as-Usual Compact Population	High	1,738	27,654	269	137	932	35	354	143	51
		Mid		29,874	389	269	1,503	72	324	133	50
		Low		34,048	718	547	2,894	148	294	127	43
4	High RSLR Business-as-Usual Compact Population	High	1,760	27,956	285	168	1,039	48	354	137	51
		Mid		30,534	428	321	1,673	87	324	128	45
		Low		34,853	833	851	3,663	224	294	123	40

Other Results			Wetlands Created/Protected		Scenario 1	Scenario 2	Scenario 3	Scenario 4
Construction Time (years)			After 50 yrs (% of baseline)		106	104	106	104
Direct Wetland Impacts (acres)			After 100 yrs (% of baseline)		104	95	104	95
Indirect Impacts (unitless)			Present Value of Life Cycle Costs (\$ Millions)					
Spatial Integrity (unitless)			Coastal Component		10,666	10,899	10,666	10,899
Non-Federal Share of Present Value of Life Cycle Costs	Scenario	(\$ Millions)		Nonstructural Component		2,977	2,977	2,287
	1 / 2	12,326	12,473	Structural Component		21,092	21,279	21,092
	3 / 4	12,085	12,232	Total Project		34,735	35,155	34,045

2075 Residual Risk / Damages - Low Uncertainty (\$ Millions)								Planning Unit 1 Comprehensive Plan Lake Pontchartrain Surge Reduction Alt 100-year Design	
Frequency	Scenario 1		Scenario 2		Scenario 3		Scenario 4		
	No Action	With Proj							
10-year	1,215	714	1,472	738	1,081	590	1,345	611	
100-year	11,935	1,166	34,000	1,599	9,879	991	26,076	1,257	
400-year	89,937	14,212	116,204	15,043	62,688	9,672	80,694	10,069	
1,000-year	118,260	48,364	122,423	49,464	81,963	34,033	84,515	34,504	
2,000-year	122,343	103,665	125,886	104,997	84,351	72,777	86,336	73,318	

Note: Present Value costs and Annual Equivalent numbers are calculated for the period from 2010 to 2075 at common base year 2025 using a 4.7%/8% Federal discount rate. All dollar metrics are based on 2007 price levels.

Louisiana Coastal Protection and Restoration
 Planning Unit 1
 Pontchartrain Basin
**Comprehensive
 Lake Pontchartrain
 Surge Reduction Plan**
PU1 - C - LP - a - 100 - 3
 (100-Year Design Level)
 April 2008



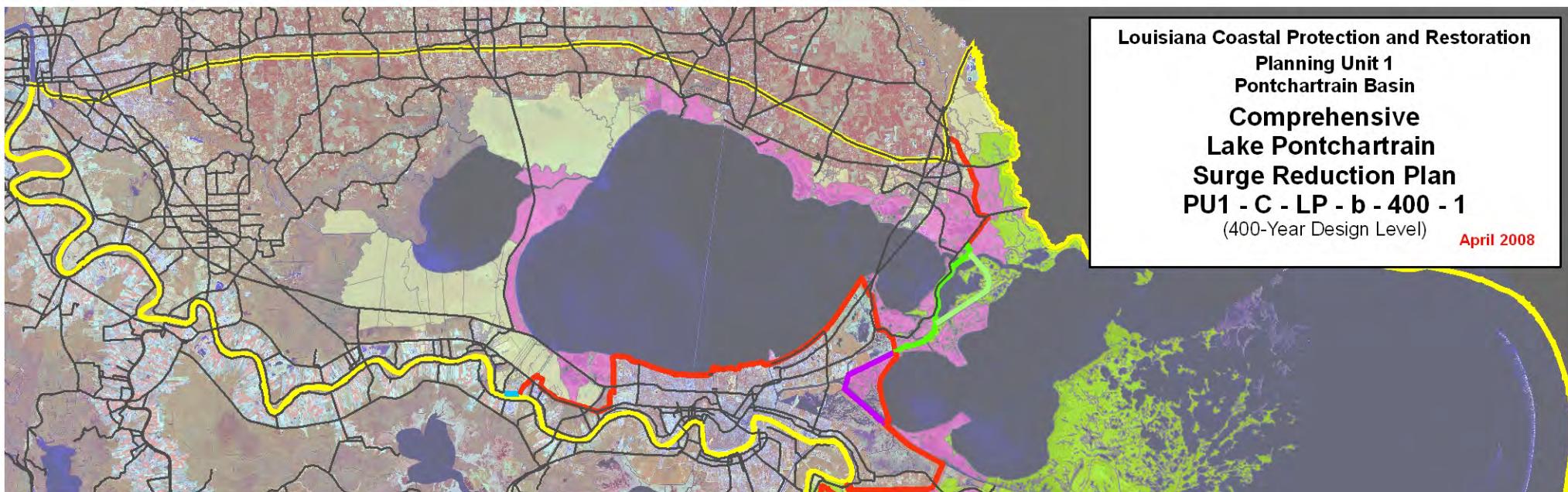
Planning Unit:	1	Alt. No.:	PU1-C-LP-b-400-1	Category:	Comprehensive (Coastal+Structural+Nonstructural)
Alternative Description:	Comprehensive plan--Same coastal and structural measures as Alternative PU1-LP-b-400-1 but with complementary nonstructural measures to reduce residual risk.				
Coastal Component:	R2 (pulsed diversions)		Nonstructural Component:		400-yr complementary measures
Structural Component:	Same as Alternative PU1-LP-b-400-1				

Scenario	Future Conditions (Relative Sea Level Rise (RSLR) and Redevelopment Assumptions)	Uncertainty	Results by Scenario with Uncertainty Bands								
			Life Cycle Cost	Population Impacted	Residual Damages	Gross Regional Output Impacted	Employment Impacted	People's Earned Income Impacted	Archeo. Sites Protected	Historic Properties Protected	Historic Districts Protected
			Ann. Equiv. \$ Millions	Ann. Equiv. #	Ann. Equiv. \$ Millions	Ann. Equiv. \$ Millions	Ann. Equiv. #	Ann. Equiv. \$ Millions	# Sites	# Properties	# Districts
1	Low RSLR High Employment Dispersed Population	High	31,572	272	123	816	34	327	142	51	
		Mid		34,075	378	277	1,346	72	297	137	50
		Low		38,960	684	611	2,758	161	267	131	48
2	High RSLR High Employment Dispersed Population	High	32,555	293	186	987	50	354	138	51	
		Mid		35,646	436	416	1,768	111	324	133	50
		Low		40,681	878	1,069	4,039	284	294	129	45
3	Low RSLR Business-as-Usual Compact Population	High	28,231	266	132	882	36	327	142	51	
		Mid		30,703	372	257	1,371	68	297	137	50
		Low		35,332	661	505	2,581	137	267	131	48
4	High RSLR Business-as-Usual Compact Population	High	28,906	285	169	1,005	48	354	138	51	
		Mid		31,862	417	330	1,615	90	324	133	50
		Low		36,557	803	884	3,555	233	294	129	45

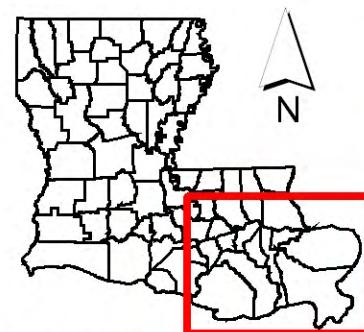
Other Results			Wetlands Created/Protected		Scenario 1	Scenario 2	Scenario 3	Scenario 4
Construction Time (years)			After 50 yrs (% of baseline)		106	104	106	104
Direct Wetland Impacts (acres)			After 100 yrs (% of baseline)		104	95	104	95
Indirect Impacts (unitless)			Present Value of Life Cycle Costs (\$ Millions)					
Spatial Integrity (unitless)			Coastal Component		10,666	10,899	10,666	10,899
Non-Federal Share of Present Value of Life Cycle Costs	Scenario	(\$ Millions)		Nonstructural Component		5,858	5,858	6,453
	1 / 2	14,804	14,915	Structural Component		25,538	25,620	25,538
	3 / 4	15,012	15,123	Total Project		42,061	42,377	42,656

2075 Residual Risk / Damages - Low Uncertainty (\$ Millions)								Planning Unit 1 Comprehensive Plan Lake Pontchartrain Surge Reduction Alt 400-year Design	
Frequency	Scenario 1		Scenario 2		Scenario 3		Scenario 4		
	No Action	With Proj							
10-year	1,215	704	1,472	749	1,081	579	1,345	614	
100-year	11,935	1,175	34,000	1,544	9,879	995	26,076	1,277	
400-year	89,937	2,761	116,204	8,697	62,688	2,367	80,694	6,868	
1,000-year	118,260	14,209	122,423	18,516	81,963	11,121	84,515	13,955	
2,000-year	122,343	33,494	125,886	37,673	84,351	25,057	86,336	27,508	

Note: Present Value costs and Annual Equivalent numbers are calculated for the period from 2010 to 2075 at common base year 2025 using a 4.7/8% Federal discount rate. All dollar metrics are based on 2007 price levels.

**Legend**

- Primary Roads
- Planning Unit 1
- New Levees & Existing Levee Modifications
- Authorized Levee
- Bonnet Carré Spillway
- Weir Alignment 1
- Weir Alignment 2
- Voluntary Nonstructural Measures



Inundation Zones:

- Water Depths <14 feet, Raise-In-Place of Structures
- Water Depths ≥14 feet, Buyout of Structures

Velocity Zones:

- Buyout of Structures
- 0 5 10 20 30 40 Miles

NOTE:

"Velocity zones (Vzones): Areas exposed to storm surge velocity, defined by FEMA, closest to shoreline subject to wave action, high-velocity flows, and erosion from a 100-year (1 percent annual chance) flood. Structures in Vzones would be eligible for voluntary buyout."

Planning Unit:	1	Alt. No.:	PU1-C-LP-b-400-3	Category:	Comprehensive (Coastal+Structural+Nonstructural)
Alternative Description:	Comprehensive plan--Same coastal and structural measures as Alternative PU1-LP-b-400-3 but with complementary nonstructural measures to reduce residual risk.				
Coastal Component:	R2 (pulsed diversions)		Nonstructural Component:		400-yr complementary measures
Structural Component:	Same as Alternative PU1-LP-b-400-3				

Scenario	Future Conditions (Relative Sea Level Rise (RSLR) and Redevelopment Assumptions)	Uncertainty	Results by Scenario with Uncertainty Bands								
			Life Cycle Cost	Population Impacted	Residual Damages	Gross Regional Output Impacted	Employment Impacted	People's Earned Income Impacted	Archeo. Sites Protected	Historic Properties Protected	Historic Districts Protected
			Ann. Equiv. \$ Millions	Ann. Equiv. #	Ann. Equiv. \$ Millions	Ann. Equiv. \$ Millions	Ann. Equiv. #	Ann. Equiv. \$ Millions	# Sites	# Properties	# Districts
1	Low RSLR High Employment Dispersed Population	High	3,008	31,109	279	130	878	36	356	149	51
		Mid		33,133	393	286	1,449	75	326	146	50
		Low		37,263	705	605	2,830	160	296	141	48
2	High RSLR High Employment Dispersed Population	High	3,028	31,666	300	191	1,044	51	356	147	51
		Mid		34,208	448	402	1,781	105	326	142	50
		Low		38,647	889	1,034	4,015	273	296	134	45
3	Low RSLR Business-as-Usual Compact Population	High	2,975	27,852	275	139	952	38	356	149	51
		Mid		29,818	388	267	1,489	71	326	146	50
		Low		33,650	684	506	2,688	137	296	141	48
4	High RSLR Business-as-Usual Compact Population	High	2,995	28,167	293	175	1,072	50	356	147	51
		Mid		30,571	431	328	1,689	89	326	142	50
		Low		34,577	819	869	3,608	227	296	134	45

Other Results			Wetlands Created/Protected		Scenario 1	Scenario 2	Scenario 3	Scenario 4
Construction Time (years)			After 50 yrs (% of baseline)		106	104	106	104
Direct Wetland Impacts (acres)			After 100 yrs (% of baseline)		104	95	104	95
Indirect Impacts (unitless)			Present Value of Life Cycle Costs (\$ Millions)					
Spatial Integrity (unitless)			Coastal Component		10,666	10,899	10,666	10,899
Non-Federal Share of Present Value of Life Cycle Costs	Scenario	(\$ Millions)		Nonstructural Component		3,172	3,172	2,520
	1 / 2	20,843	20,980	Structural Component		45,081	45,238	45,081
	3 / 4	20,615	20,752	Total Project		58,919	59,309	58,267

2075 Residual Risk / Damages - Low Uncertainty (\$ Millions)								Planning Unit 1 Comprehensive Plan Lake Pontchartrain Surge Reduction Alt 400-year Design	
Frequency	Scenario 1		Scenario 2		Scenario 3		Scenario 4		
	No Action	With Proj							
10-year	1,215	702	1,472	720	1,081	583	1,345	597	
100-year	11,935	995	34,000	1,218	9,879	855	26,076	1,024	
400-year	89,937	1,337	116,204	2,323	62,688	1,127	80,694	1,514	
1,000-year	118,260	6,866	122,423	8,000	81,963	5,668	84,515	6,172	
2,000-year	122,343	25,731	125,886	27,153	84,351	20,497	86,336	21,082	

Note: Present Value costs and Annual Equivalent numbers are calculated for the period from 2010 to 2075 at common base year 2025 using a 4.7%/8% Federal discount rate. All dollar metrics are based on 2007 price levels.

Louisiana Coastal Protection and Restoration
 Planning Unit 1
 Pontchartrain Basin
**Comprehensive
 Lake Pontchartrain
 Surge Reduction Plan**
PU1 - C - LP - b - 400 - 3
 (400-Year Design Level)
 April 2008

Legend

- Primary Roads
- Planning Unit 1
- New Levees & Existing Levee Modifications
- Authorized Levee
- Bonnet Carre Spillway
- Weir Alignment 1
- Weir Alignment 2

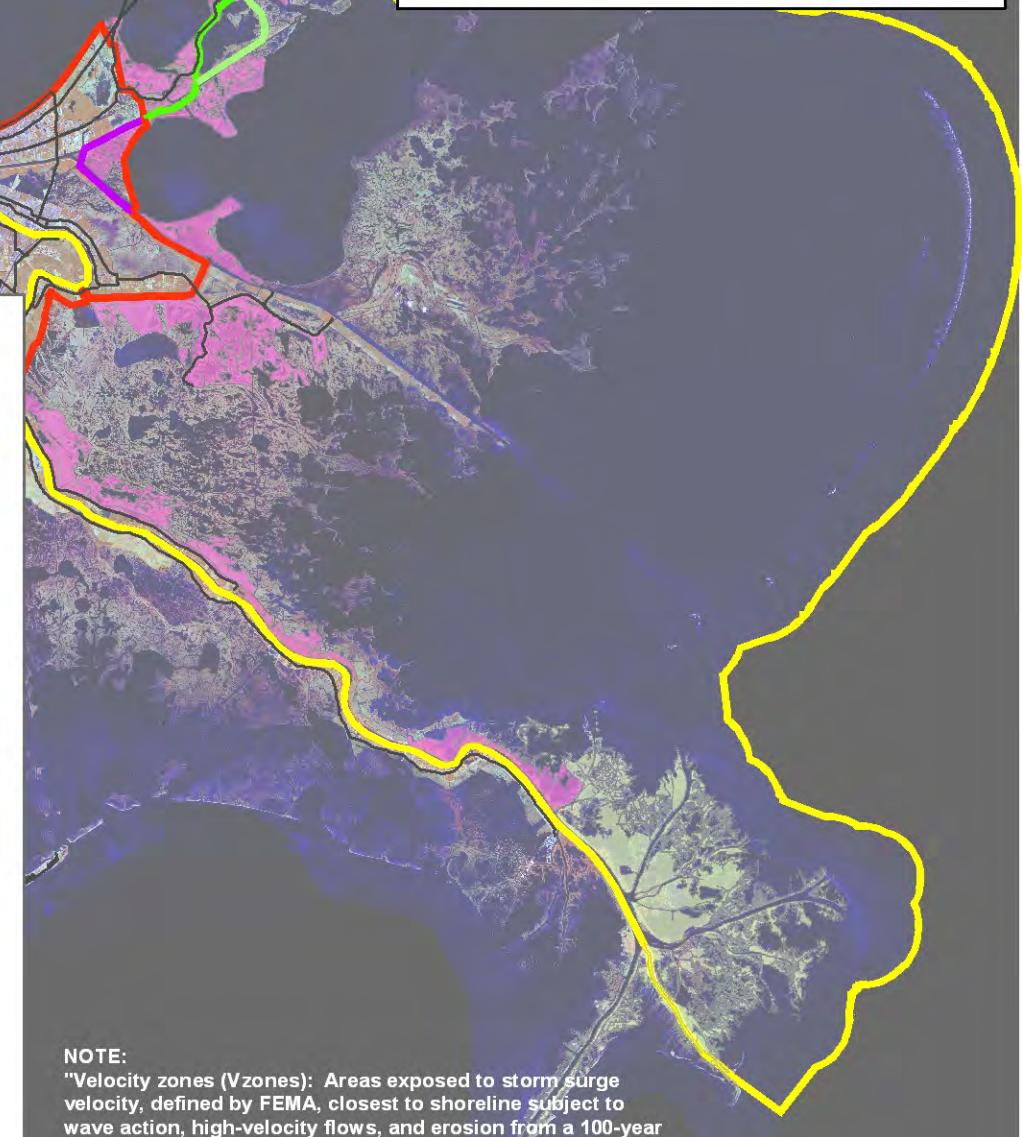
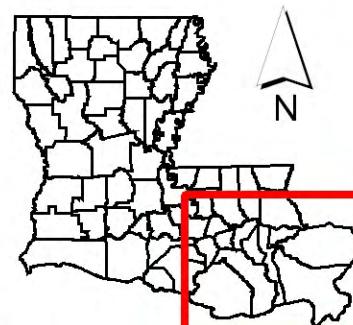
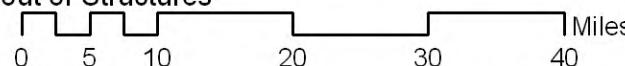
Voluntary Nonstructural Measures

Inundation Zones:

- Water Depths <14 feet, Raise-In-Place of Structures
- Water Depths ≥14 feet, Buyout of Structures

Velocity Zones:

- Buyout of Structures



Planning Unit:	1	Alt. No.:	PU1-C-LP-b-1000-1	Category:	Comprehensive (Coastal+Structural+Nonstructural)
Alternative Description:	Comprehensive plan--Same coastal and structural measures as Alternative PU1-LP-b-1000-1 but with complementary nonstructural measures to reduce residual risk.				
Coastal Component:	R2 (pulsed diversions)		Nonstructural Component:		1000-yr complementary measures
Structural Component:	Same as Alternative PU1-LP-b-1000-1				

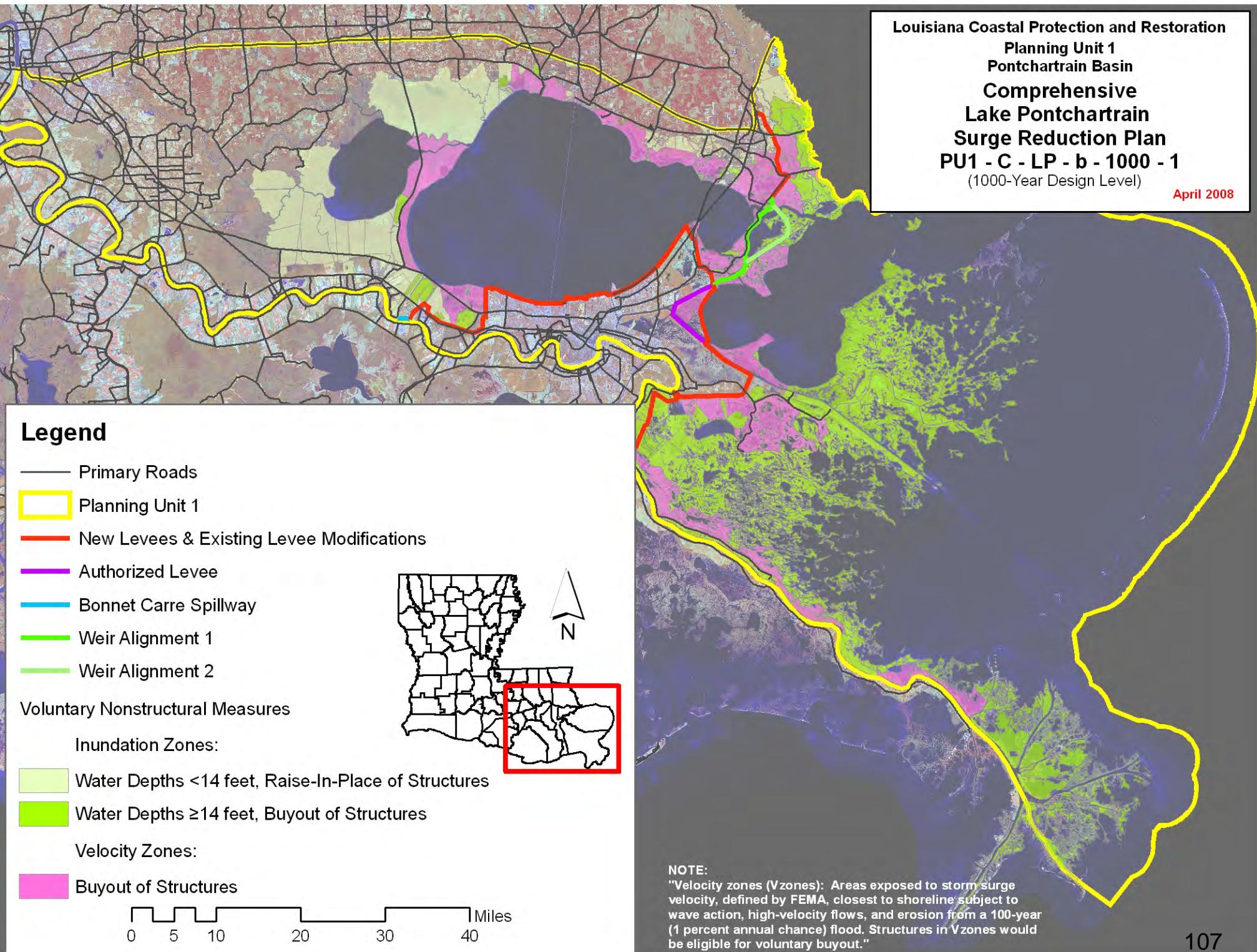
Scenario	Future Conditions (Relative Sea Level Rise (RSLR) and Redevelopment Assumptions)	Uncertainty	Results by Scenario with Uncertainty Bands								
			Life Cycle Cost	Population Impacted	Residual Damages	Gross Regional Output Impacted	Employment Impacted	People's Earned Income Impacted	Archeo. Sites Protected	Historic Properties Protected	Historic Districts Protected
			Ann. Equiv. \$ Millions	Ann. Equiv. #	Ann. Equiv. \$ Millions	Ann. Equiv. \$ Millions	Ann. Equiv. #	Ann. Equiv. \$ Millions	# Sites	# Properties	# Districts
1	Low RSLR High Employment Dispersed Population	High	2,579	31,285	270	123	816	34	327	142	51
		Mid		33,710	375	272	1,326	71	297	137	50
		Low		38,446	667	575	2,618	151	267	131	48
2	High RSLR High Employment Dispersed Population	High	2,602	32,247	290	180	966	48	327	138	51
		Mid		35,269	429	382	1,642	99	297	133	50
		Low		40,146	852	1,019	3,867	270	267	129	45
3	Low RSLR Business-as-Usual Compact Population	High	2,667	28,145	265	132	881	36	327	142	51
		Mid		30,547	369	253	1,353	67	297	137	50
		Low		35,039	645	477	2,447	128	267	131	48
4	High RSLR Business-as-Usual Compact Population	High	2,690	28,809	282	165	992	46	327	138	51
		Mid		31,700	411	310	1,545	84	297	133	50
		Low		36,257	780	851	3,410	223	267	129	45

Other Results			Wetlands Created/Protected		Scenario 1	Scenario 2	Scenario 3	Scenario 4
Construction Time (years)			After 50 yrs (% of baseline)		106	104	106	104
Direct Wetland Impacts (acres)			After 100 yrs (% of baseline)		104	95	104	95
Indirect Impacts (unitless)			Present Value of Life Cycle Costs (\$ Millions)					
Spatial Integrity (unitless)			Coastal Component		10,666	10,899	10,666	10,899
Non-Federal Share of Present Value of Life Cycle Costs	Scenario	(\$ Millions)		Nonstructural Component		6,508	6,508	8,243
	1 / 2	17,906	18,066	Structural Component		33,339	33,562	33,339
	3 / 4	18,513	18,673	Total Project		50,512	50,969	52,248

2075 Residual Risk / Damages - Low Uncertainty (\$ Millions)								Planning Unit 1 Comprehensive Plan Lake Pontchartrain Surge Reduction Alt 1000-year Design	
Frequency	Scenario 1		Scenario 2		Scenario 3		Scenario 4		
	No Action	With Proj							
10-year	1,215	695	1,472	732	1,081	573	1,345	599	
100-year	11,935	1,125	34,000	1,296	9,879	953	26,076	1,086	
400-year	89,937	1,408	116,204	2,250	62,688	1,195	80,694	1,750	
1,000-year	118,260	3,324	122,423	10,985	81,963	2,636	84,515	8,711	
2,000-year	122,343	12,020	125,886	17,240	84,351	10,022	86,336	13,278	

Note: Present Value costs and Annual Equivalent numbers are calculated for the period from 2010 to 2075 at common base year 2025 using a 4.7/8% Federal discount rate. All dollar metrics are based on 2007 price levels.

Louisiana Coastal Protection and Restoration
 Planning Unit 1
 Pontchartrain Basin
**Comprehensive
 Lake Pontchartrain
 Surge Reduction Plan**
PU1 - C - LP - b - 1000 - 1
 (1000-Year Design Level)
 April 2008



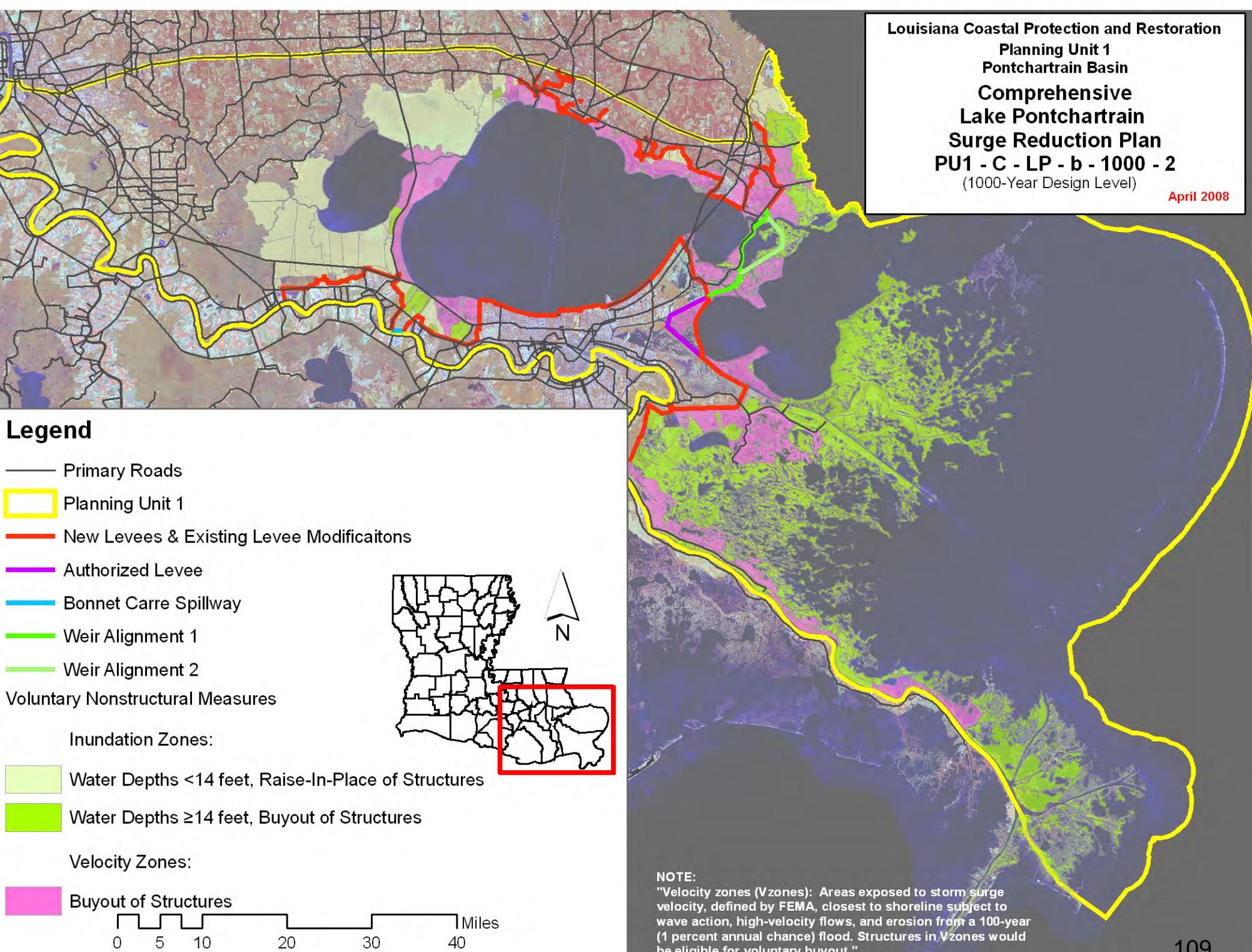
Planning Unit:	1	Alt. No.:	PU1-C-LP-b-1000-2	Category:	Comprehensive (Coastal+Structural+Nonstructural)
Alternative Description:	Comprehensive plan--Same coastal and structural measures as Alternative PU1-LP-b-1000-2 but with complementary nonstructural measures to reduce residual risk.				
Coastal Component:	R2 (pulsed diversions)		Nonstructural Component:		1000-yr complementary measures
Structural Component:	Same as Alternative PU1-LP-b-1000-2				

Scenario	Future Conditions (Relative Sea Level Rise (RSLR) and Redevelopment Assumptions)	Uncertainty	Results by Scenario with Uncertainty Bands								
			Life Cycle Cost	Population Impacted	Residual Damages	Gross Regional Output Impacted	Employment Impacted	People's Earned Income Impacted	Archeo. Sites Protected	Historic Properties Protected	Historic Districts Protected
			Ann. Equiv. \$ Millions	Ann. Equiv. #	Ann. Equiv. \$ Millions	Ann. Equiv. \$ Millions	Ann. Equiv. #	Ann. Equiv. \$ Millions	# Sites	# Properties	# Districts
1	Low RSLR High Employment Dispersed Population	High	3,754	30,761	280	131	889	36	363	159	52
		Mid		32,697	393	287	1,459	75	333	159	50
		Low		36,596	697	591	2,780	155	303	156	48
2	High RSLR High Employment Dispersed Population	High	3,777	31,242	299	189	1,042	50	363	138	51
		Mid		33,707	446	395	1,763	102	333	135	49
		Low		37,903	878	1,010	3,939	266	303	129	41
3	Low RSLR Business-as-Usual Compact Population	High	3,701	27,765	276	140	964	39	363	159	52
		Mid		29,663	389	268	1,502	71	333	159	50
		Low		33,279	679	495	2,651	134	303	156	48
4	High RSLR Business-as-Usual Compact Population	High	3,724	28,043	293	174	1,075	49	363	138	51
		Mid		30,381	431	323	1,685	88	333	135	49
		Low		34,161	810	852	3,555	222	303	129	41

Other Results			Wetlands Created/Protected		Scenario 1	Scenario 2	Scenario 3	Scenario 4
Construction Time (years)			After 50 yrs (% of baseline)		106	104	106	104
Direct Wetland Impacts (acres)			After 100 yrs (% of baseline)		104	95	104	95
Indirect Impacts (unitless)			Present Value of Life Cycle Costs (\$ Millions)					
Spatial Integrity (unitless)			Coastal Component		10,666	10,899	10,666	10,899
Non-Federal Share of Present Value of Life Cycle Costs	Scenario	(\$ Millions)		Nonstructural Component		3,459	3,459	2,424
	1 / 2	26,099	26,254	Structural Component		59,398	59,605	59,398
	3 / 4	25,737	25,891	Total Project		73,523	73,963	72,488

2075 Residual Risk / Damages - Low Uncertainty (\$ Millions)								Planning Unit 1 Comprehensive Plan Lake Pontchartrain Surge Reduction Alt 1000-year Design	
Frequency	Scenario 1		Scenario 2		Scenario 3		Scenario 4		
	No Action	With Proj							
10-year	1,215	696	1,472	707	1,081	582	1,345	589	
100-year	11,935	931	34,000	968	9,879	807	26,076	832	
400-year	89,937	996	116,204	1,172	62,688	854	80,694	969	
1,000-year	118,260	1,362	122,423	1,933	81,963	1,137	84,515	1,376	
2,000-year	122,343	3,099	125,886	4,018	84,351	2,488	86,336	2,790	

Note: Present Value costs and Annual Equivalent numbers are calculated for the period from 2010 to 2075 at common base year 2025 using a 4.7%/8% Federal discount rate. All dollar metrics are based on 2007 price levels.



**LOUISIANA COASTAL PROTECTION AND RESTORATION FINAL TECHNICAL REPORT
EVALUATION RESULTS APPENDIX**

Planning Unit 2

Louisiana Coastal Protection and Restoration

Planning Unit 2
Barataria Basin

Water Surface Elevations
100-Year Event
2010 Base Conditions

May 2008

Planning Unit 2

Legend

-7	3	13	23
-6	4	14	24
-5	5	15	25
-4	6	16	26
-3	7	17	27
-2	8	18	28
-1	9	19	29
0	10	20	30
1	11	21	LACP R Planning Units
2	12	22	



Miles
4 2 0 4 8 12 16

Louisiana Coastal Protection and Restoration

Planning Unit 2
Barataria Basin

Water Depths
100-Year Event
2010 Base Conditions

May 2008

Planning Unit 2

Legend

0	7	14	21
1	8	15	22
2	9	16	23
3	10	17	24
4	11	18	25
5	12	19	LACP R Planning Units
6	13	20	



Miles
4 2 0 4 8 12 16

Louisiana Coastal Protection and Restoration

Planning Unit 2
Barataria Basin

Water Surface Elevations
400-Year Event
2010 Base Conditions

May 2008

Planning Unit 2

Legend

-7	3	13	23
-6	4	14	24
-5	5	15	25
-4	6	16	26
-3	7	17	27
-2	8	18	28
-1	9	19	29
0	10	20	30
1	11	21	LACP R Planning Units
2	12	22	



Miles
4 2 0 4 8 12 16

Louisiana Coastal Protection and Restoration

Planning Unit 2
Barataria Basin

Water Depths
400-Year Event
2010 Base Conditions

May 2008

Planning Unit 2

Legend

0	7	14	21
1	8	15	22
2	9	16	23
3	10	17	24
4	11	18	25
5	12	19	LACP R Planning Units
6	13	20	



Miles
4 2 0 4 8 12 16

Louisiana Coastal Protection and Restoration

Planning Unit 2
Barataria Basin

Water Surface Elevations
1000-Year Event
2010 Base Conditions

May 2008

Planning Unit 2

Legend

-7	3	13	23
-6	4	14	24
-5	5	15	25
-4	6	16	26
-3	7	17	27
-2	8	18	28
-1	9	19	29
0	10	20	30
1	11	21	LACP R Planning Units
2	12	22	



Miles
4 2 0 4 8 12 16

Louisiana Coastal Protection and Restoration

Planning Unit 2
Barataria Basin

Water Depths
1000-Year Event
2010 Base Conditions

May 2008

Planning Unit 2

Legend

0	7	14	21
1	8	15	22
2	9	16	23
3	10	17	24
4	11	18	25
5	12	19	LACP R Planning Units
6	13	20	



Miles
4 2 0 4 8 12 16

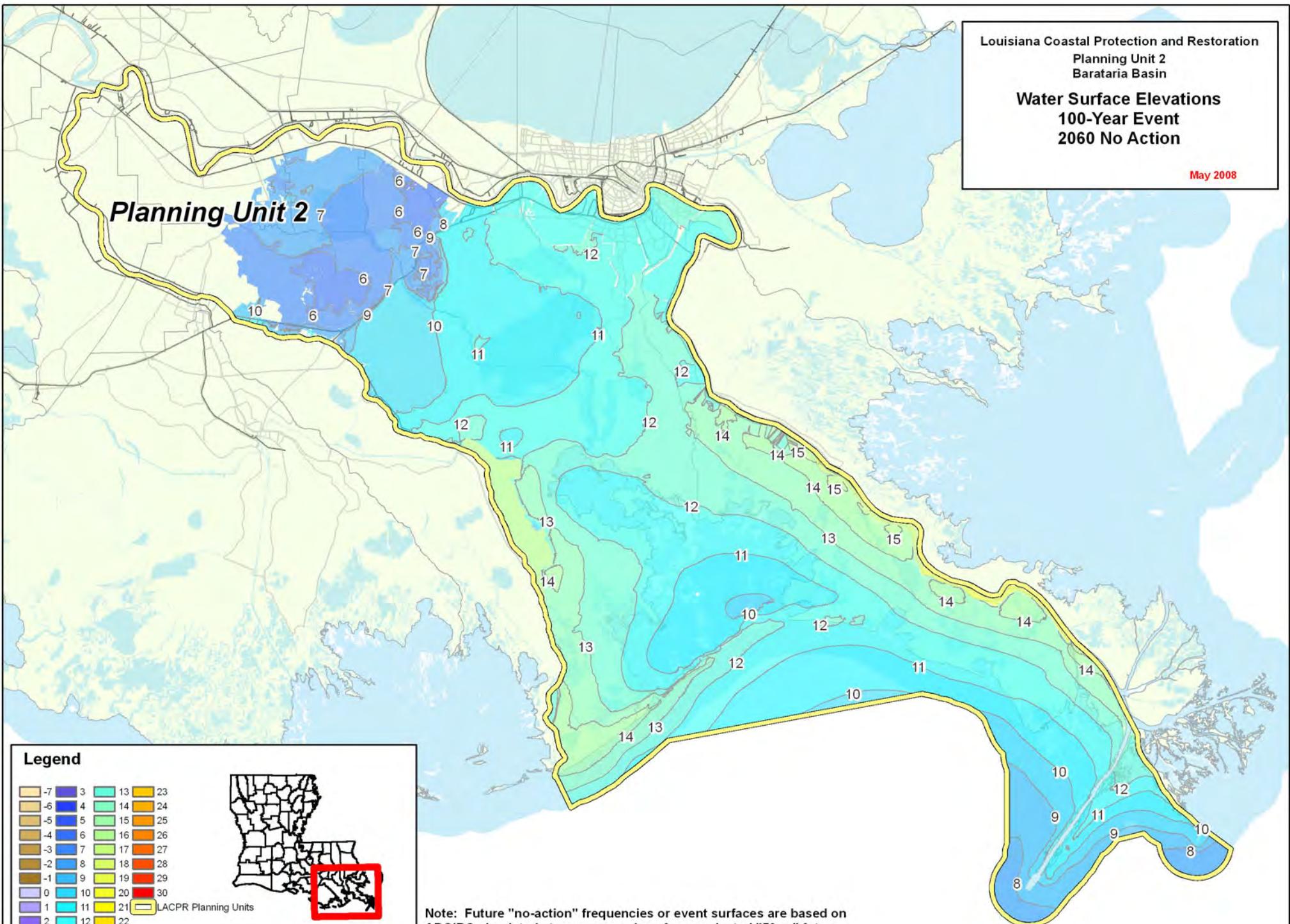
Louisiana Coastal Protection and Restoration

Planning Unit 2
Barataria Basin

Water Surface Elevations
100-Year Event
2060 No Action

May 2008

Planning Unit 2



Note: Future "no-action" frequencies or event surfaces are based on ADCIRC simulated storm surge values for a projected "50-yr" future coast based on no additional coastal restoration. Statistical surfaces shown include the added effects of relative sea level rise, i.e. eustatic plus local subsidence.

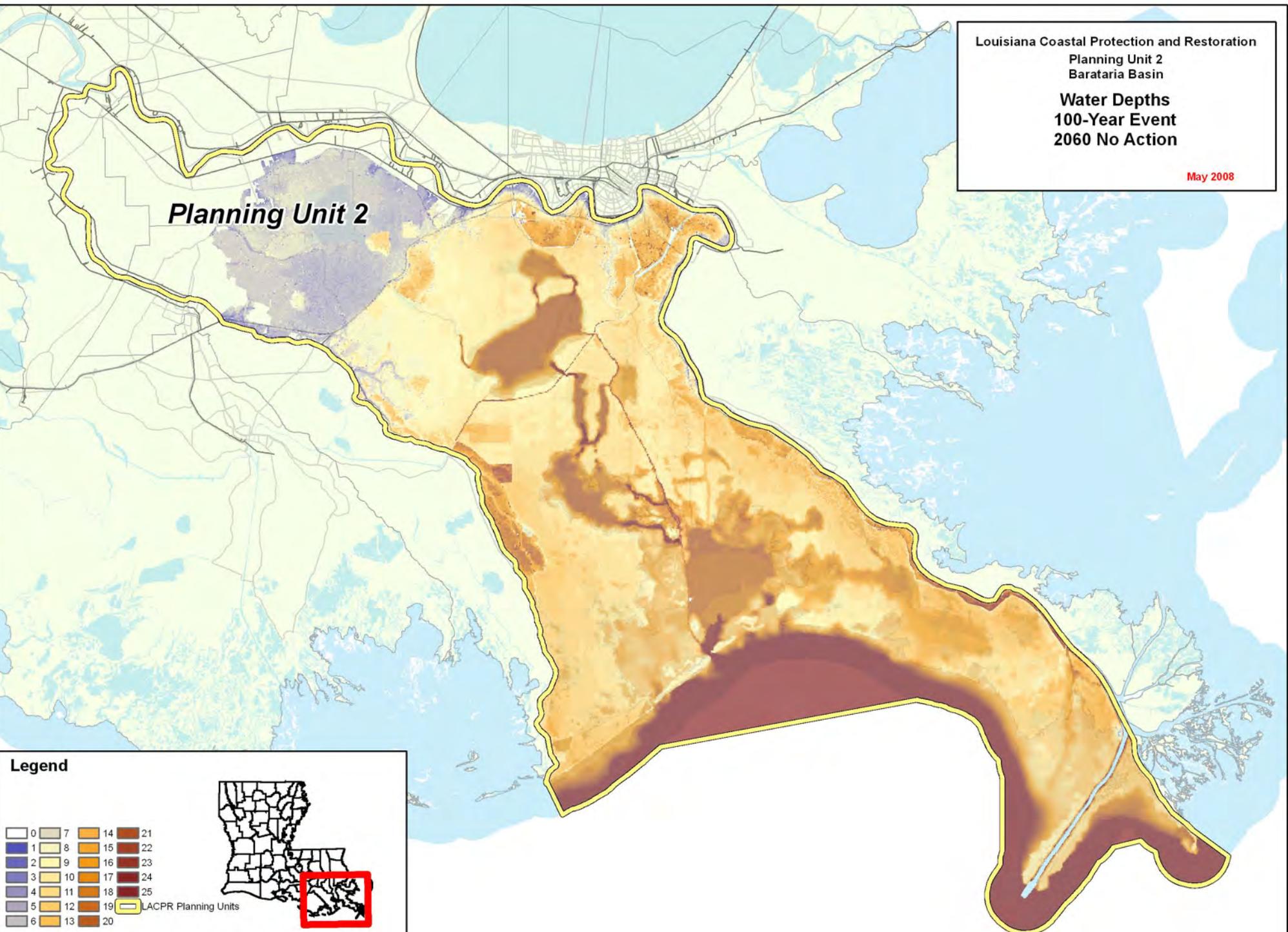
Louisiana Coastal Protection and Restoration

Planning Unit 2
Barataria Basin

Water Depths
100-Year Event
2060 No Action

May 2008

Planning Unit 2



Water Surface Elevations
400-Year Event
2060 No Action

May 2008

Planning Unit 2**Legend**

-7	3	13	23
-6	4	14	24
-5	5	15	25
-4	6	16	26
-3	7	17	27
-2	8	18	28
-1	9	19	29
0	10	20	30
1	11	21	LACPR Planning Units
2	12	22	



Miles
31.50 3 6 9 12

Note: Future "no-action" frequencies or event surfaces are based on ADCIRC simulated storm surge values for a projected "50-yr" future coast based on no additional coastal restoration. Statistical surfaces shown include the added effects of relative sea level rise, i.e. eustatic plus local subsidence.

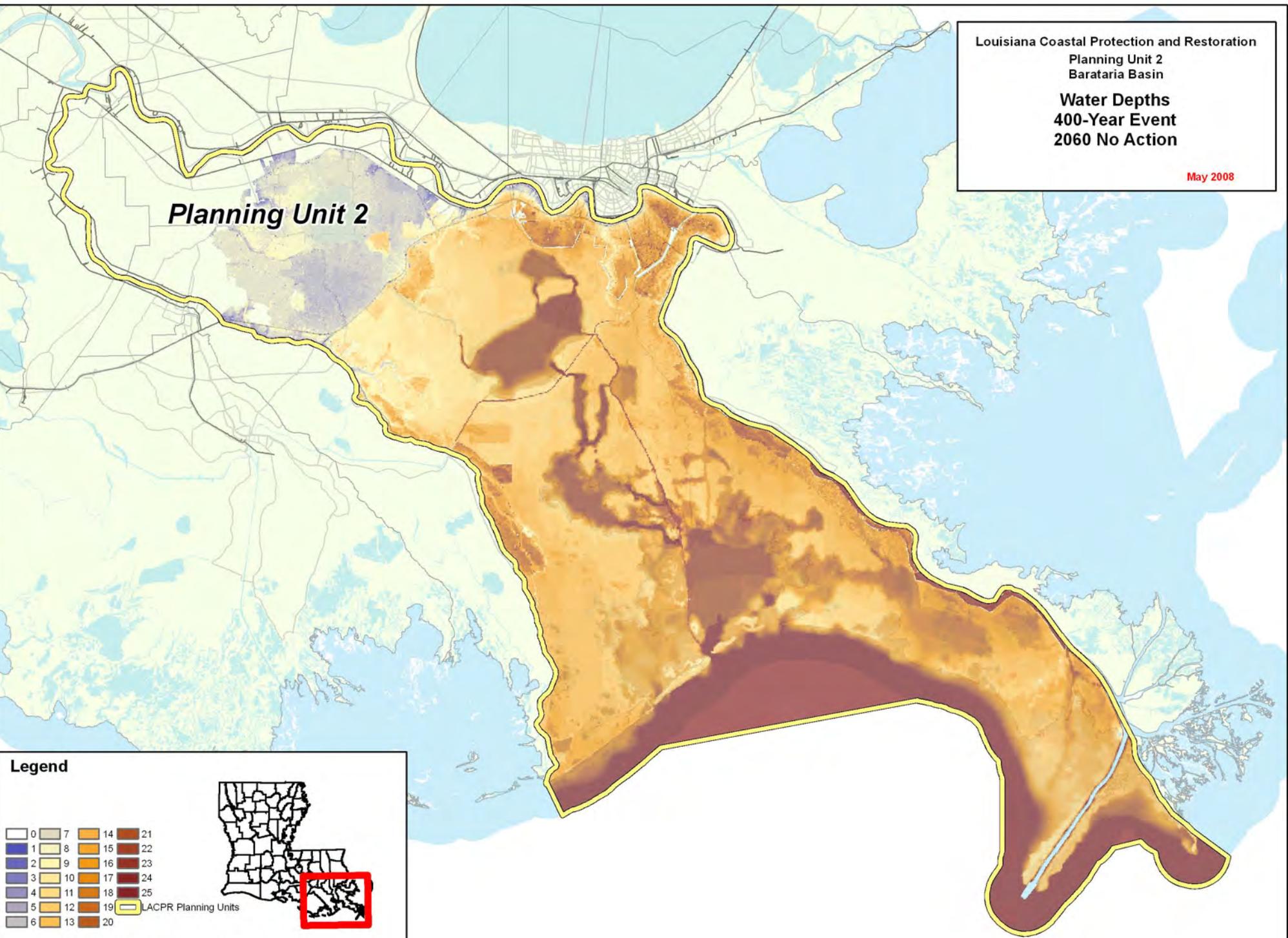
Louisiana Coastal Protection and Restoration

Planning Unit 2
Barataria Basin

Water Depths
400-Year Event
2060 No Action

May 2008

Planning Unit 2



Legend



Miles
31.50 3 6 9 12

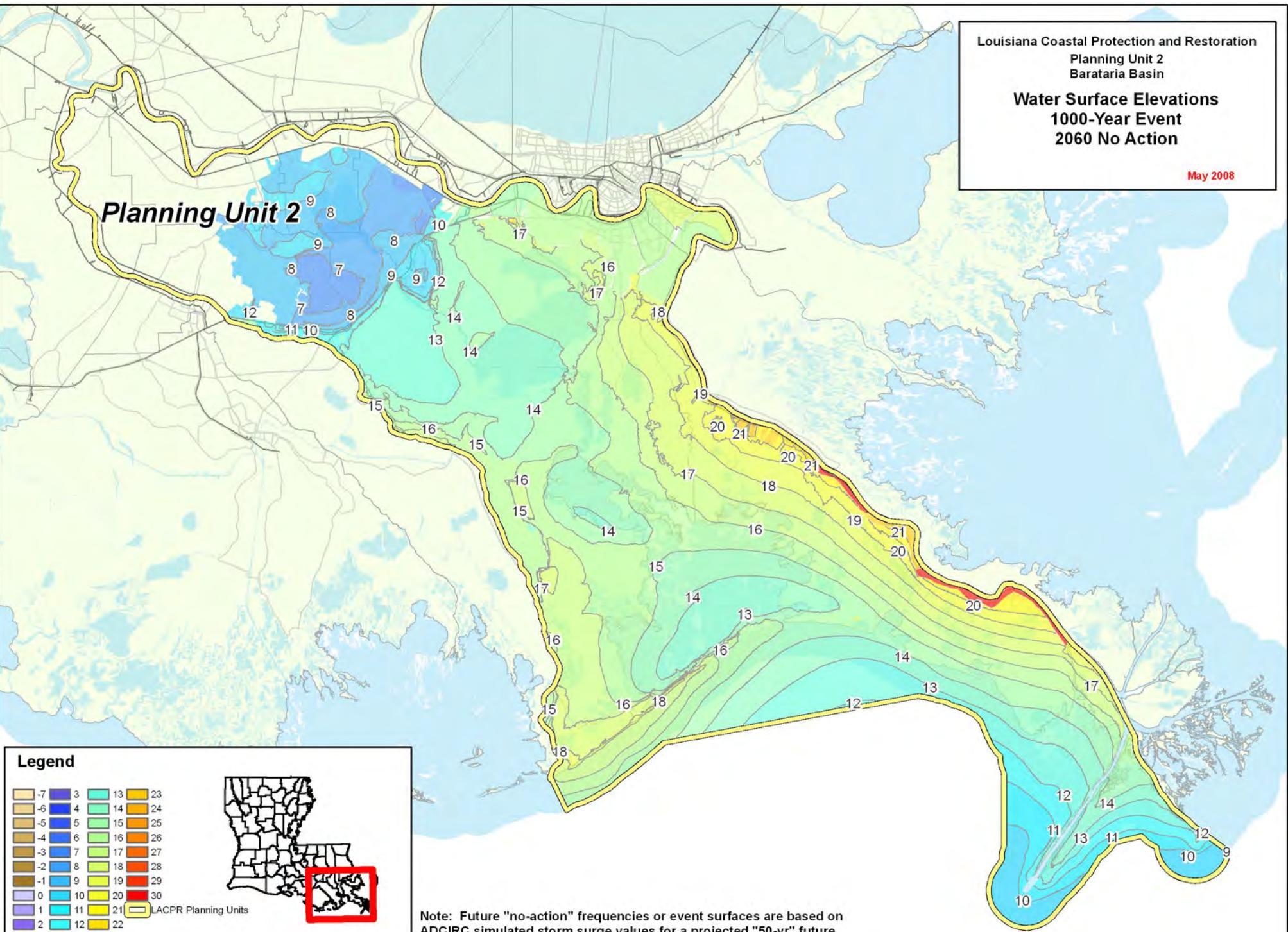
Louisiana Coastal Protection and Restoration

Planning Unit 2
Barataria Basin

Water Surface Elevations
1000-Year Event
2060 No Action

May 2008

Planning Unit 2



Miles
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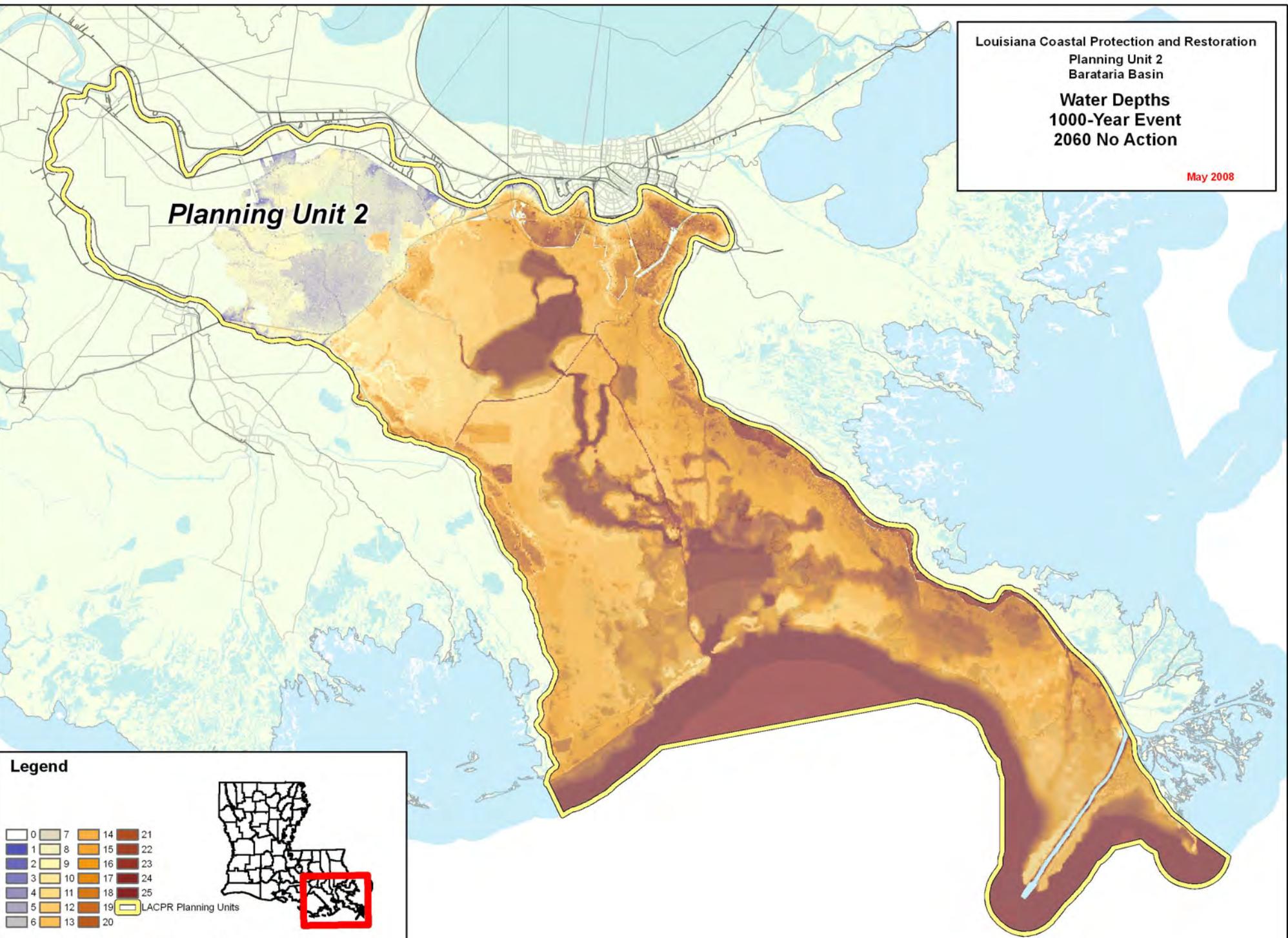
Louisiana Coastal Protection and Restoration

Planning Unit 2
Barataria Basin

Water Depths
1000-Year Event
2060 No Action

May 2008

Planning Unit 2

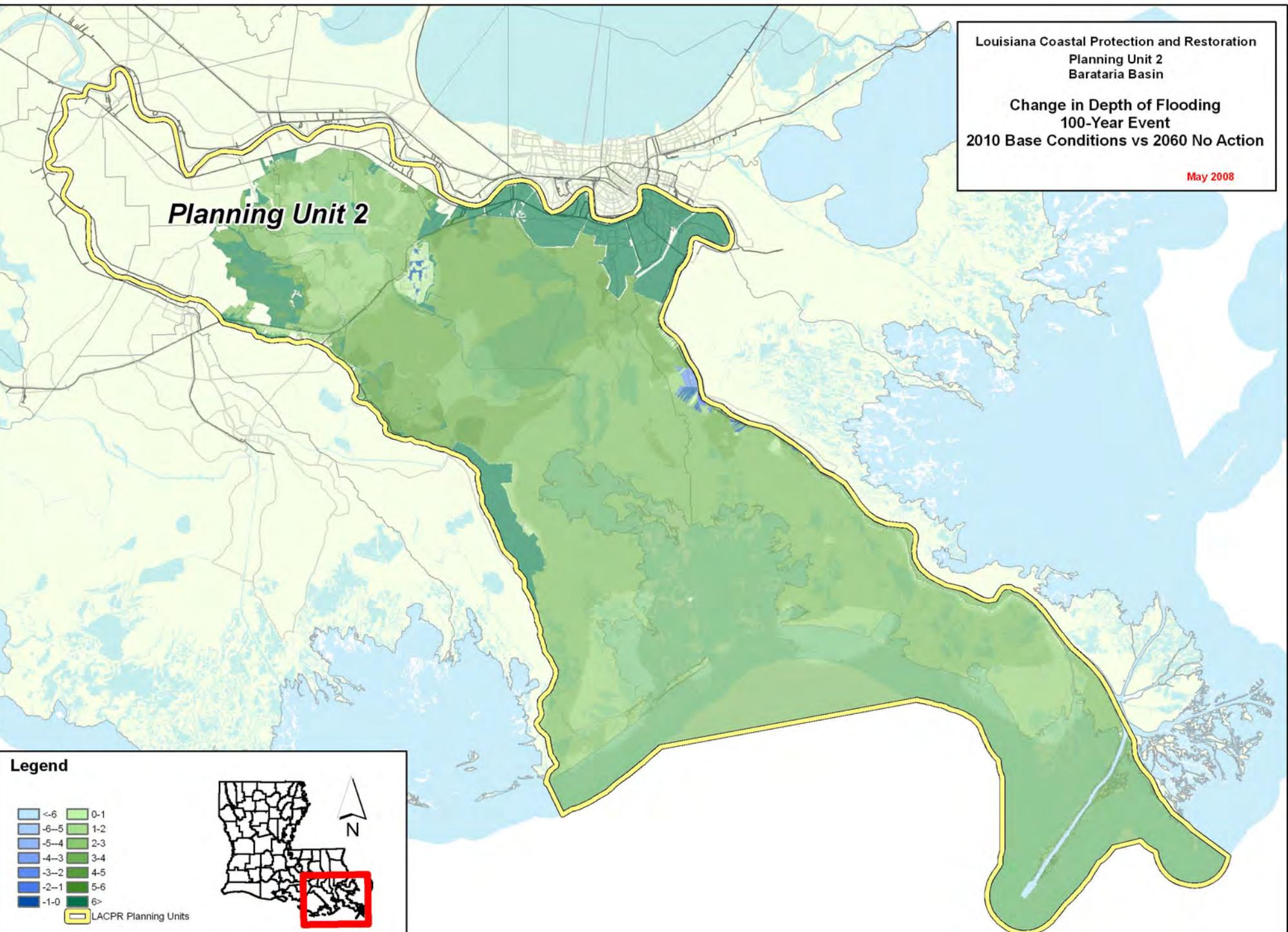


Louisiana Coastal Protection and Restoration
Planning Unit 2
Barataria Basin

Change in Depth of Flooding
100-Year Event
2010 Base Conditions vs 2060 No Action

May 2008

Planning Unit 2

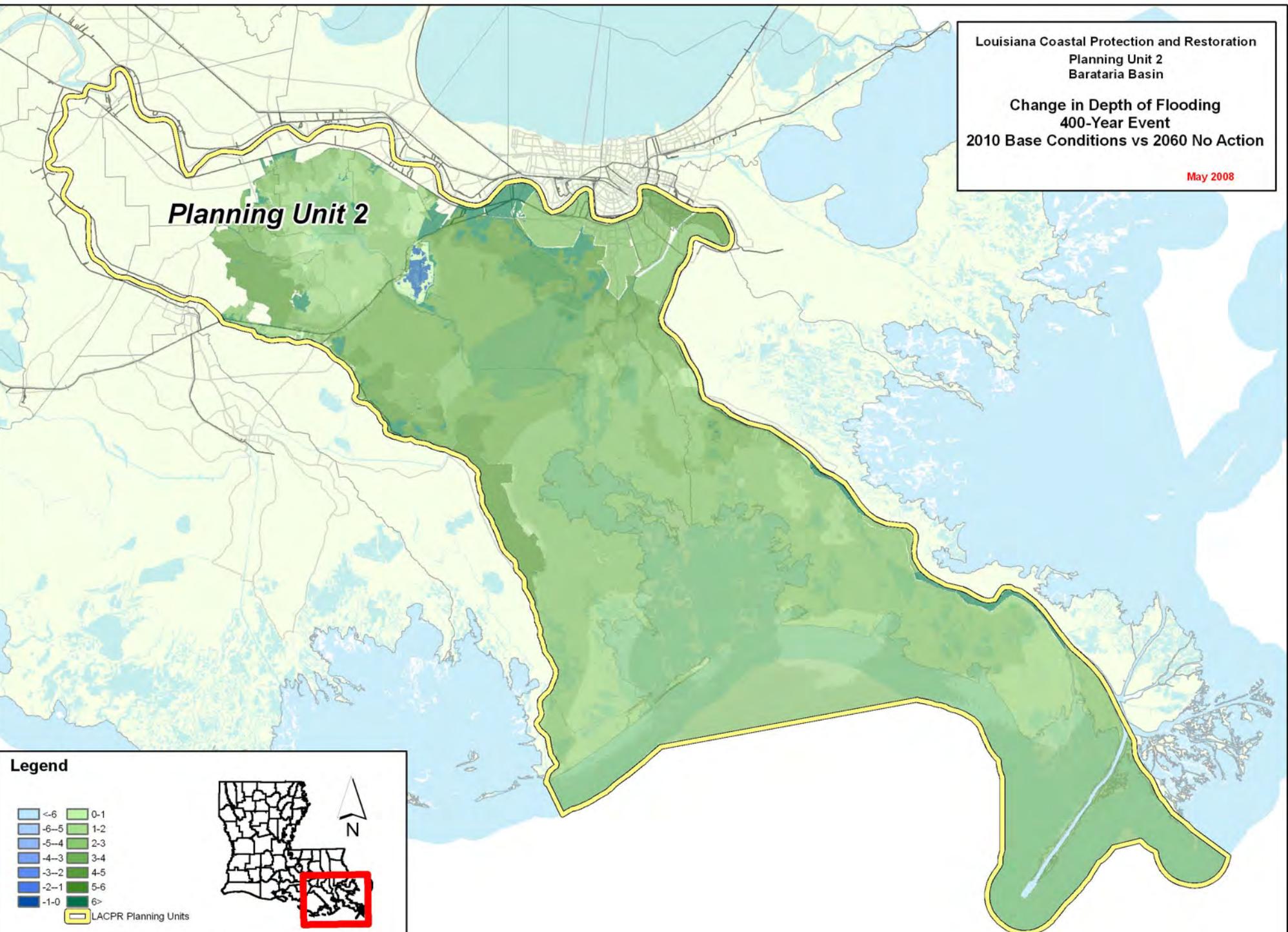


Louisiana Coastal Protection and Restoration
Planning Unit 2
Barataria Basin

Change in Depth of Flooding
400-Year Event
2010 Base Conditions vs 2060 No Action

May 2008

Planning Unit 2



Legend

≤-6	0-1
-6-5	1-2
-5-4	2-3
-4-3	3-4
-3-2	4-5
-2-1	5-6
-1-0	6+
LACPRA Planning Units	



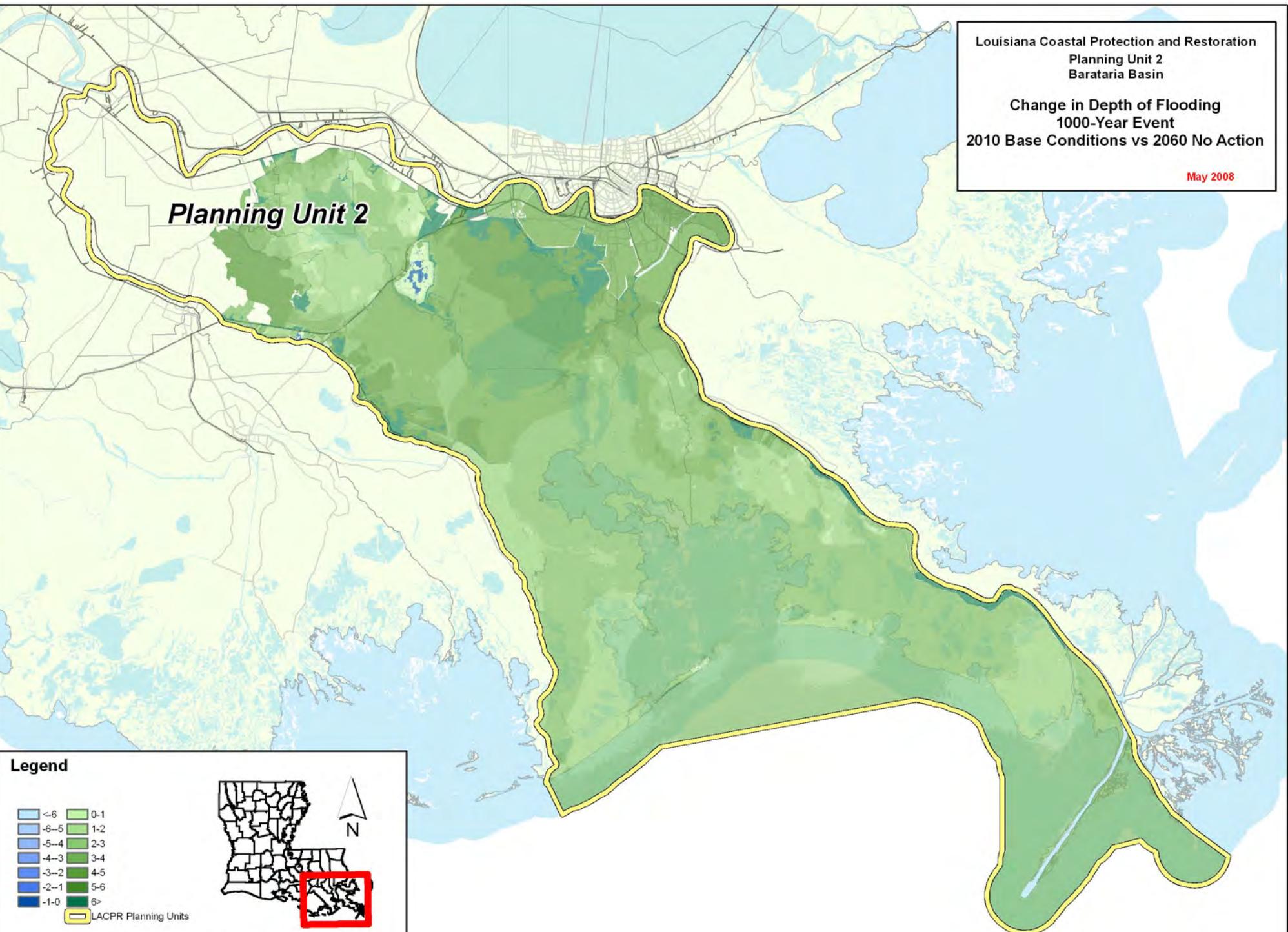
Miles
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Louisiana Coastal Protection and Restoration
Planning Unit 2
Barataria Basin

Change in Depth of Flooding
1000-Year Event
2010 Base Conditions vs 2060 No Action

May 2008

Planning Unit 2



Louisiana Coastal Protection and Restoration

Planning Unit 2
Barataria Basin

**Water Surface Elevations
100-Year Event
2060 Maintain**

May 2008

Planning Unit 2

Legend

-7	3	13	23
-6	4	14	24
-5	5	15	25
-4	6	16	26
-3	7	17	27
-2	8	18	28
-1	9	19	29
0	10	20	30
1	11	21	LACPR Planning Units
2	12	22	



Miles
4 2 0 4 8 12 16

Note: Future "maintain coast" frequencies or event surfaces are based on ADCIRC simulated storm surge values for the base coastline. Statistical surfaces shown include the added effects of relative sea level rise, i.e. eustatic plus local subsidence.

Louisiana Coastal Protection and Restoration

Planning Unit 2
Barataria Basin

**Water Surface Elevations
400-Year Event
2060 Maintain**

May 2008

Planning Unit 2

Legend

-7	3	13	23
-6	4	14	24
-5	5	15	25
-4	6	16	26
-3	7	17	27
-2	8	18	28
-1	9	19	29
0	10	20	30
1	11	21	LACP R Planning Units
2	12	22	



Miles
4 2 0 4 8 12 16

Note: Future "maintain coast" frequencies or event surfaces are based on ADCIRC simulated storm surge values for the base coastline. Statistical surfaces shown include the added effects of relative sea level rise, i.e. eustatic plus local subsidence.

Louisiana Coastal Protection and Restoration

Planning Unit 2
Barataria Basin

Water Surface Elevations
1000-Year Event
2060 Maintain

May 2008

Planning Unit 2

Legend

-7	3	13	23
-6	4	14	24
-5	5	15	25
-4	6	16	26
-3	7	17	27
-2	8	18	28
-1	9	19	29
0	10	20	30
1	11	21	LACP R Planning Units
2	12	22	



Miles
4 2 0 4 8 12 16

Note: Future "maintain coast" frequencies or event surfaces are based on ADCIRC simulated storm surge values for the base coastline. Statistical surfaces shown include the added effects of relative sea level rise, i.e. eustatic plus local subsidence.

Louisiana Coastal Protection and Restoration

Planning Unit 2

Barataria Basin

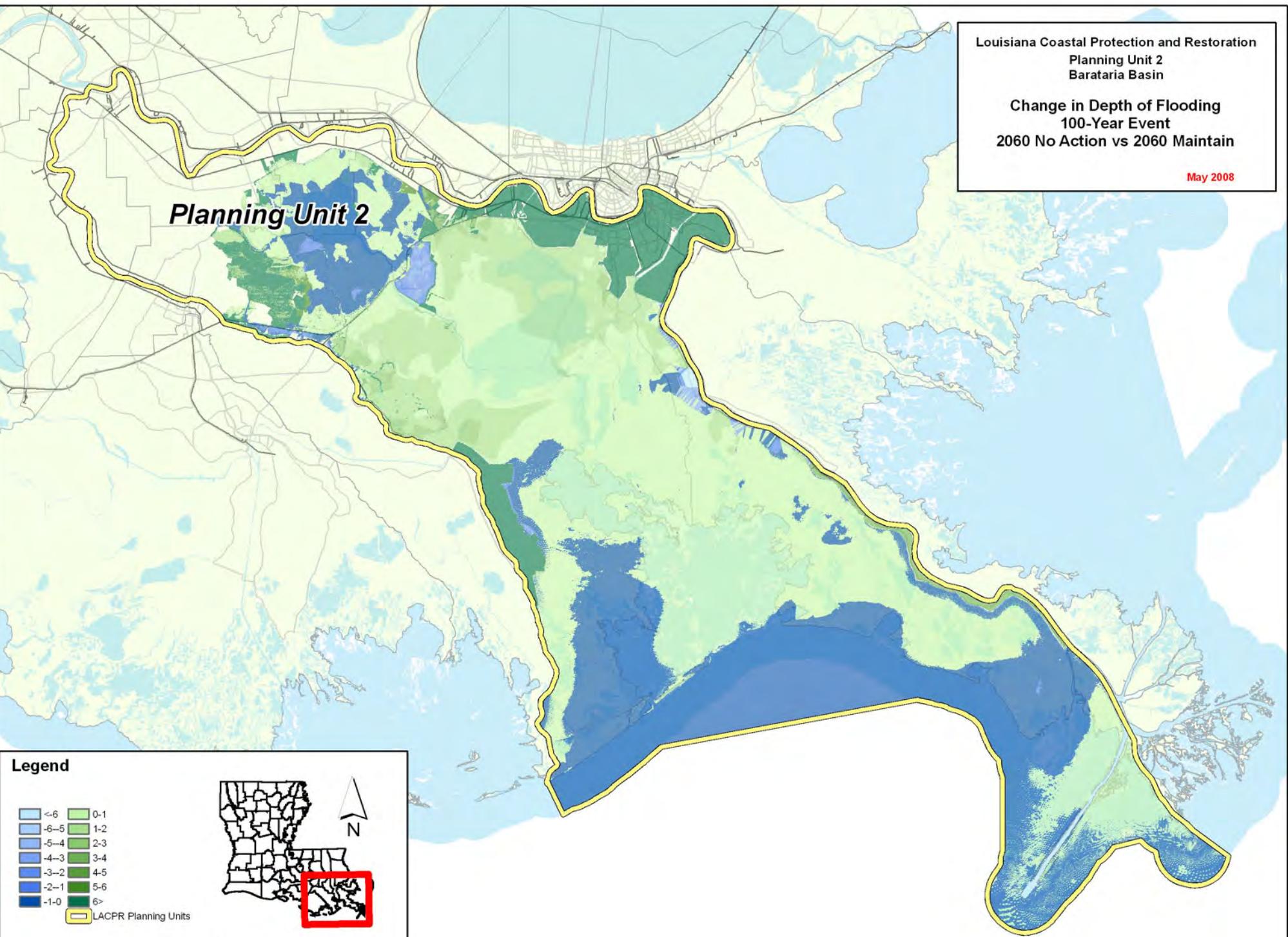
Change in Depth of Flooding

100-Year Event

2060 No Action vs 2060 Maintain

May 2008

Planning Unit 2



Louisiana Coastal Protection and Restoration

Planning Unit 2

Barataria Basin

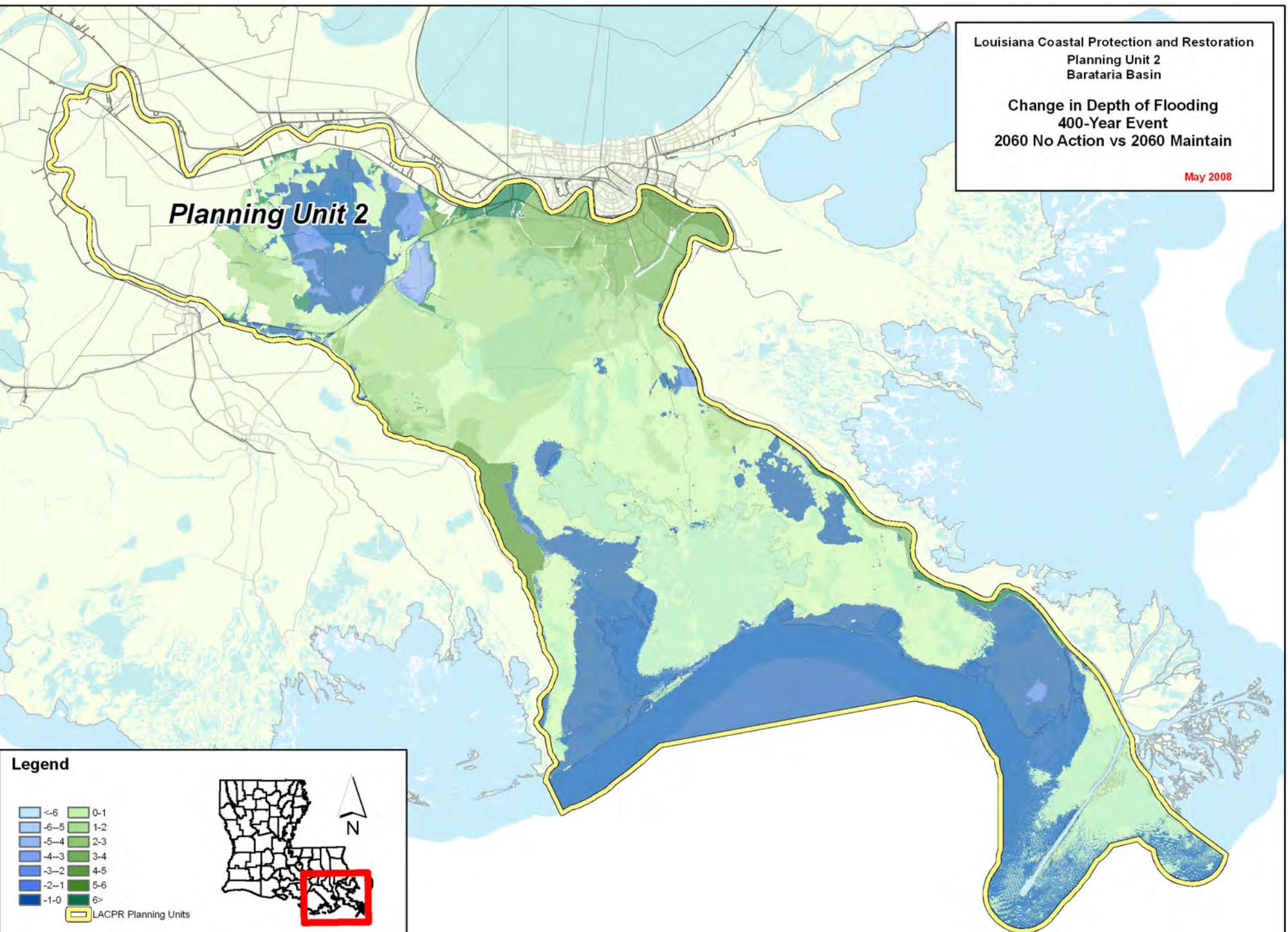
Change in Depth of Flooding

400-Year Event

2060 No Action vs 2060 Maintain

May 2008

Planning Unit 2



Legend

Light Blue	Lightest Green
Medium Blue	Light Green
Dark Blue	Medium Green
Light Green	Dark Green
Dark Green	Very Dark Green
Very Dark Green	Medium Blue



Miles
31.50 3 6 9 12

Louisiana Coastal Protection and Restoration

Planning Unit 2

Barataria Basin

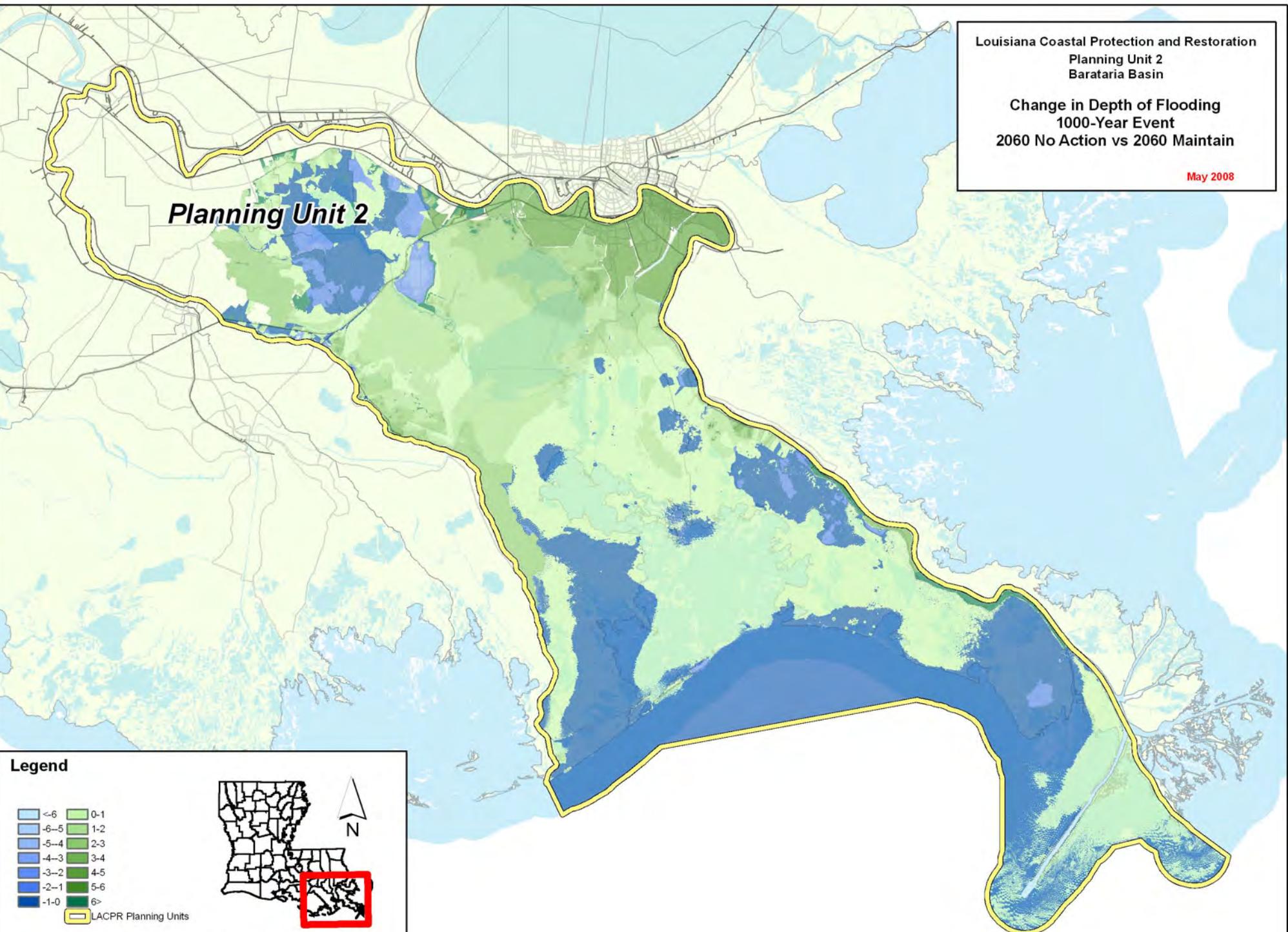
Change in Depth of Flooding

1000-Year Event

2060 No Action vs 2060 Maintain

May 2008

Planning Unit 2



Legend

<-6	0-1
-6-5	1-2
-5-4	2-3
-4-3	3-4
-3-2	4-5
-2-1	5-6
-1-0	6+



Miles
31.50 3 6 9 12

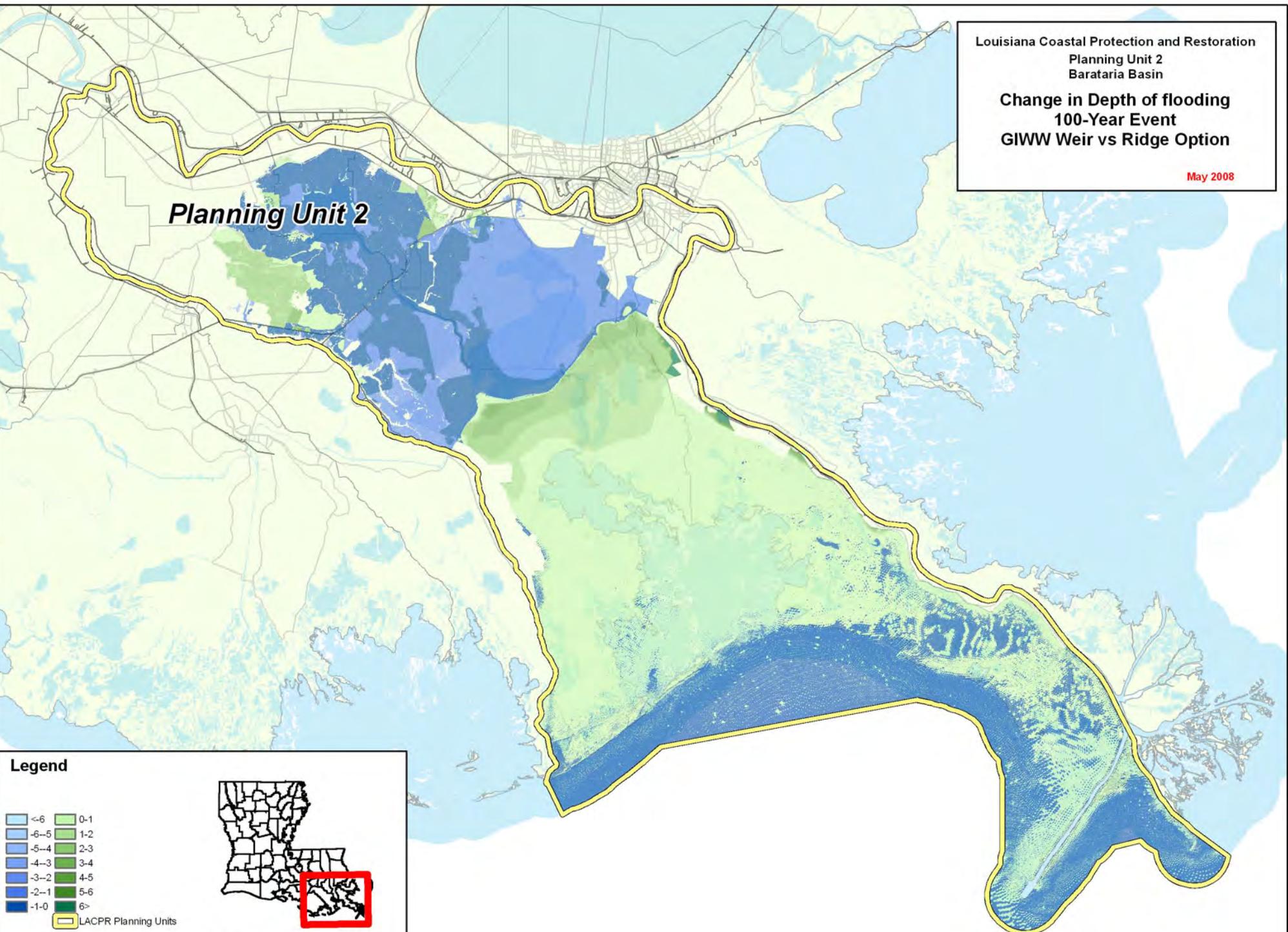
Louisiana Coastal Protection and Restoration

Planning Unit 2
Barataria Basin

Change in Depth of flooding
100-Year Event
GIWW Weir vs Ridge Option

May 2008

Planning Unit 2



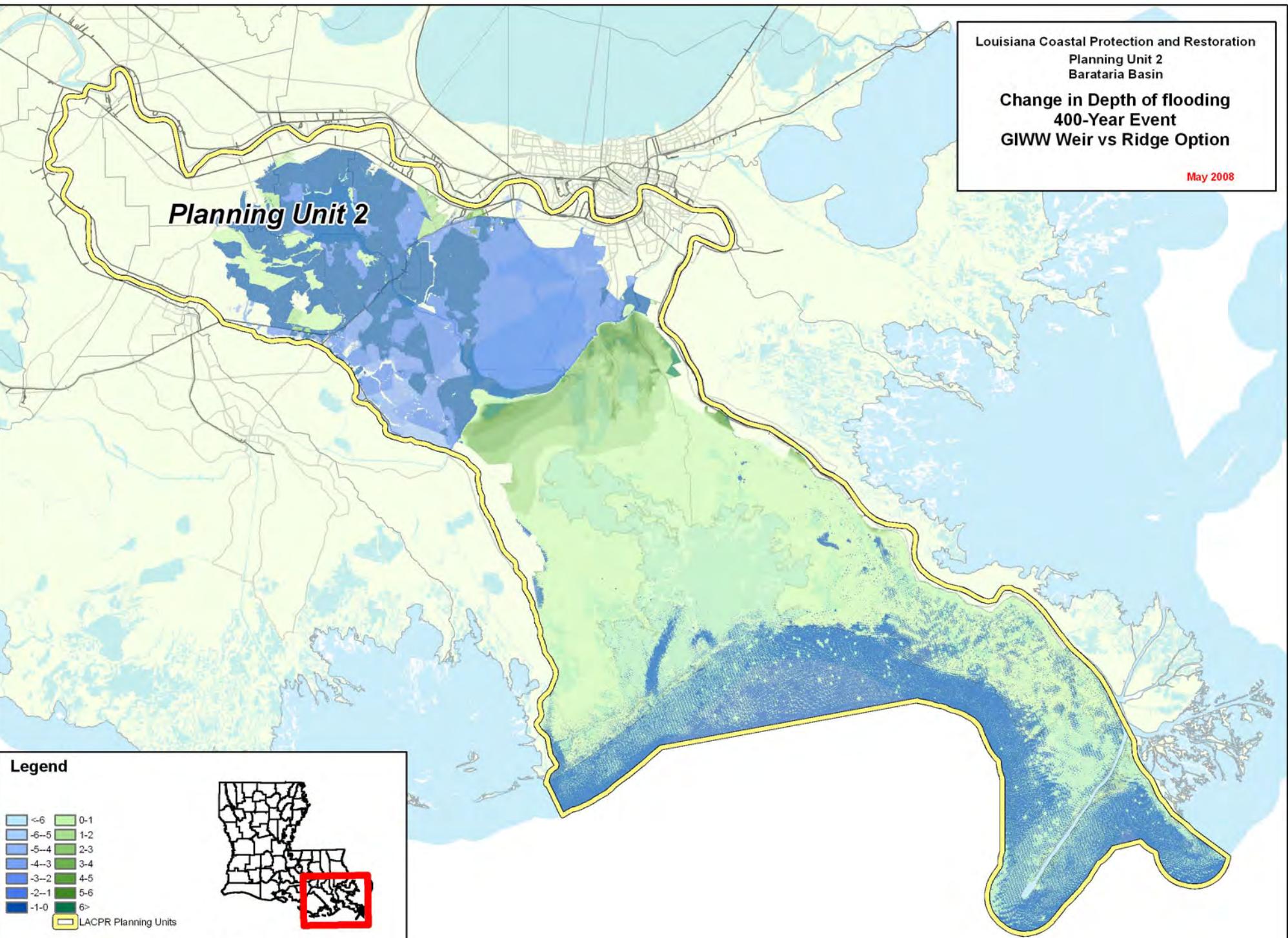
Louisiana Coastal Protection and Restoration

Planning Unit 2
Barataria Basin

Change in Depth of flooding
400-Year Event
GIWW Weir vs Ridge Option

May 2008

Planning Unit 2



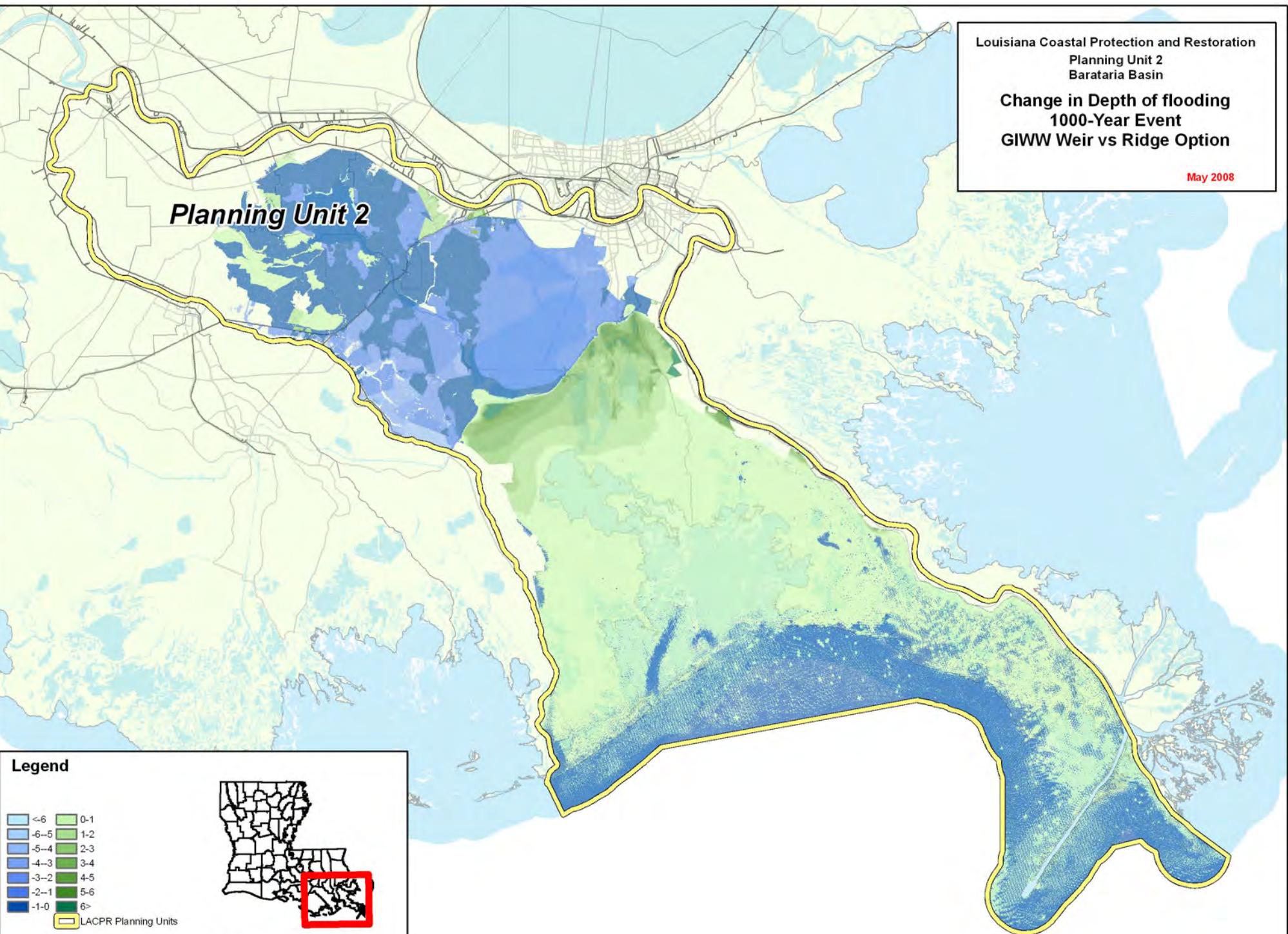
Louisiana Coastal Protection and Restoration

Planning Unit 2
Barataria Basin

Change in Depth of flooding
1000-Year Event
GIWW Weir vs Ridge Option

May 2008

Planning Unit 2



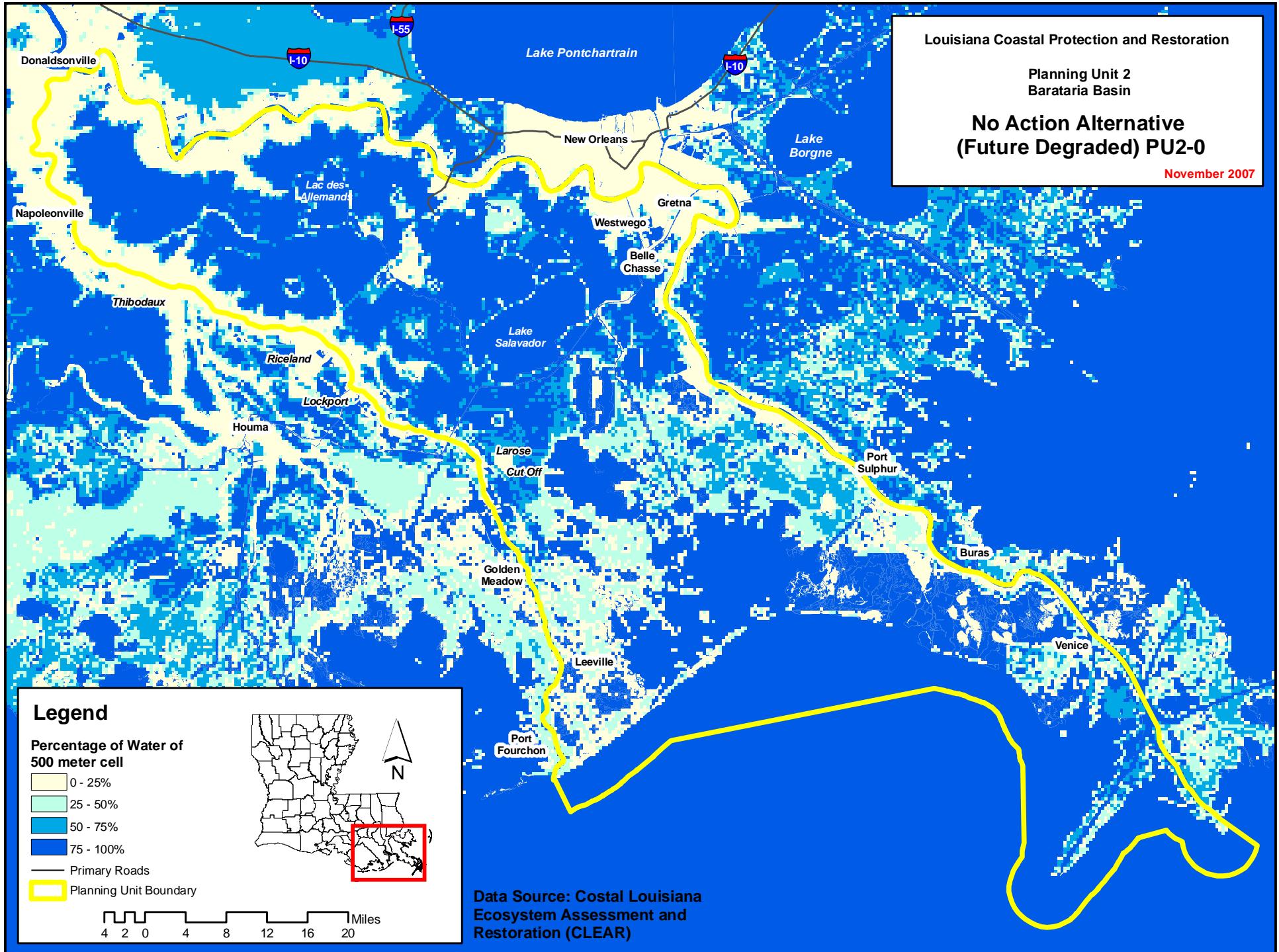
Planning Unit:	2	Alt. No.:	PU2-0	Category:	No Action
Alternative Description:	No action (without project) alternative.				
Coastal Component:	Degraded coast--increasing risk.	Nonstructural Component:		None	
Structural Component:	No new levees or increases in risk reduction level for existing levees.				

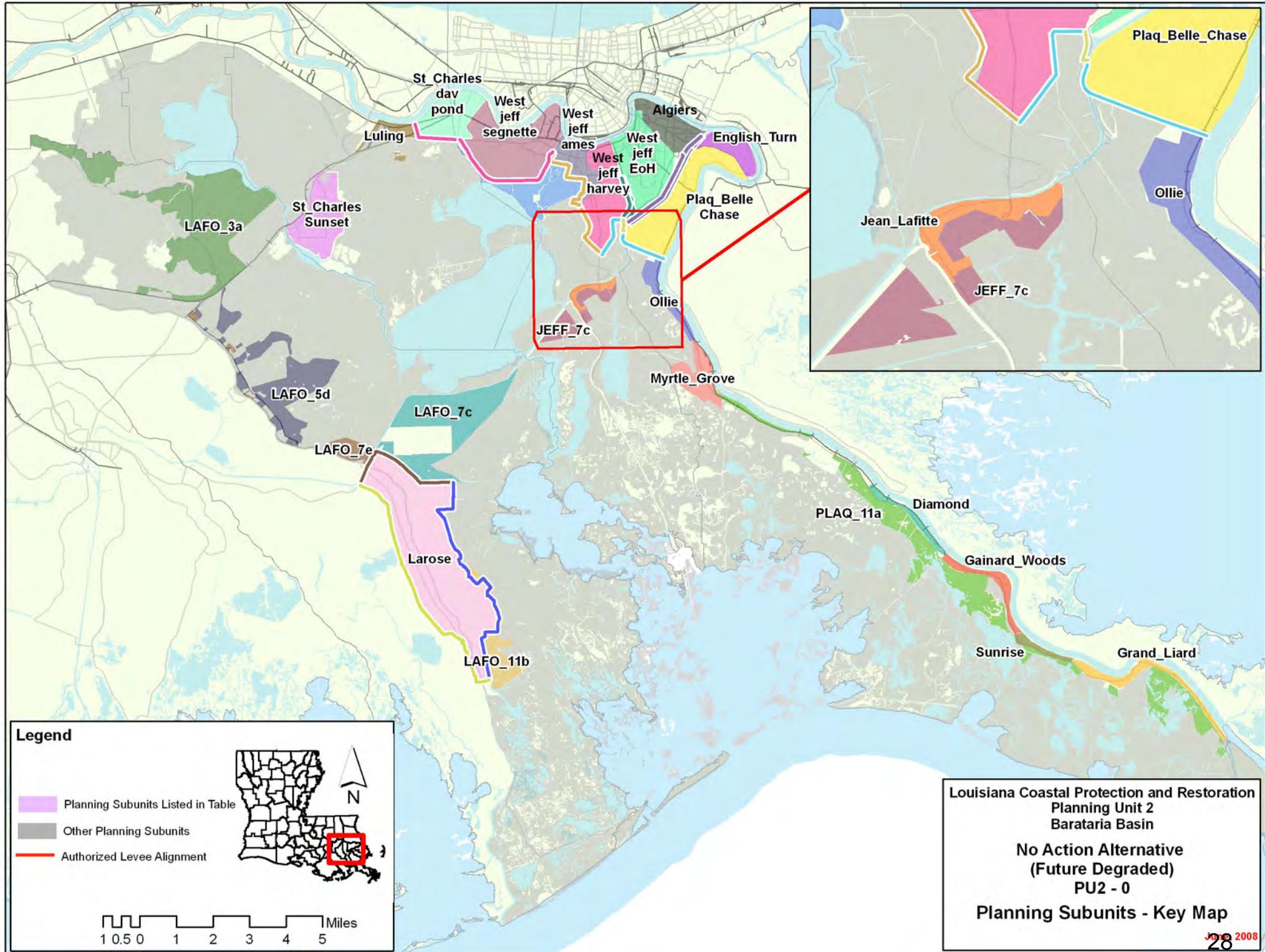
Scenario	Future Conditions (Relative Sea Level Rise (RSLR) and Redevelopment Assumptions)	Uncertainty	Results by Scenario with Uncertainty Bands								
			Life Cycle Cost	Population Impacted	Residual Damages	Gross Regional Output Impacted	Employment Impacted	People's Earned Income Impacted	Archeo. Sites Protected	Historic Properties Protected	Historic Districts Protected
			Ann. Equiv. \$ Millions	Ann. Equiv. #	Ann. Equiv. \$ Millions	Ann. Equiv. \$ Millions	Ann. Equiv. #	Ann. Equiv. \$ Millions	# Sites	# Properties	# Districts
1	Low RSLR High Employment Dispersed Population	High	0	22,019	792	1,461	3,239	285	54	16	3
		Mid		29,484	1,848	3,443	8,264	705	48	14	2
		Low		31,156	2,164	3,784	9,054	749	42	12	0
2	High RSLR High Employment Dispersed Population	High	0	25,950	1,443	2,586	6,480	581	54	14	3
		Mid		30,305	2,044	3,604	8,513	729	48	13	2
		Low		31,441	2,285	3,967	9,325	780	42	11	0
3	Low RSLR Business-as-Usual Compact Population	High	0	16,175	696	1,281	2,793	240	54	16	3
		Mid		22,294	1,601	2,753	6,635	552	48	14	2
		Low		23,789	1,851	3,050	7,283	587	42	12	0
4	High RSLR Business-as-Usual Compact Population	High	0	19,128	1,238	2,121	5,035	450	54	14	3
		Mid		22,774	1,737	2,932	6,880	577	48	13	2
		Low		23,929	1,927	3,243	7,484	612	42	11	0

Other Results			Wetlands Created/Protected		Scenario 1	Scenario 2	Scenario 3	Scenario 4
Construction Time (years)			After 50 yrs (% of baseline)		81	79	81	79
Direct Wetland Impacts (acres)			After 100 yrs (% of baseline)		74	70	74	70
Indirect Impacts (unitless)			Present Value of Life Cycle Costs (\$ Millions)					
Spatial Integrity (unitless)			Coastal Component					
Non-Federal Share of Present Value of Life Cycle Costs	Scenario	(\$ Millions)	Nonstructural Component					
	1 / 2	0	Structural Component					
	3 / 4	0	Total Project					

2075 Residual Risk / Damages - Low Uncertainty (\$ Millions)								Planning Unit 2 No Action Plan	
Frequency	Scenario 1		Scenario 2		Scenario 3		Scenario 4		
	No Action	With Proj							
10-year	1,583	N/A	2,834	N/A	1,512	N/A	2,129	N/A	
100-year	46,652	N/A	49,467	N/A	37,218	N/A	39,133	N/A	
400-year	51,671	N/A	53,124	N/A	40,614	N/A	41,659	N/A	
1,000-year	53,208	N/A	54,188	N/A	41,777	N/A	42,556	N/A	
2,000-year	53,965	N/A	54,716	N/A	42,386	N/A	42,963	N/A	

Note: Present Value costs and Annual Equivalent numbers are calculated for the period from 2010 to 2075 at common base year 2025 using a 4.7/8% Federal discount rate. All dollar metrics are based on 2007 price levels.





Alternative: PU2-0
Water Surface Elevations (feet - NAVD88 2004.65)

Planning Sub Unit	2010 (Base) Conditions						2060 (Future) Conditions					
	100-yr Event		400-year Event		1,000-yr Event		100-yr Event		400-year Event		1,000-yr Event	
	Without Project	With Project	Without Project	With Project	Without Project	With Project	Without Project	With Project	Without Project	With Project	Without Project	With Project
Algiers	-3.8		10.7		12.1		12.9		16.3		17.9	
Diamond	13.0		16.7		18.9		16.2		26.3		30.2	
English_Turn	-1.7		10.7		12.1		12.9		16.3		17.9	
Gainard_Woods	13.5		17.3		19.7		16.7		20.5		22.9	
Grand_Liard	15.0		16.7		18.9		18.2		26.3		30.2	
Jean_Lafitte	8.4		11.9		14.0		13.0		16.9		19.3	
JEFF_7a	7.7		10.8		13.1		12.8		17.1		18.2	
JEFF_7c	8.4		11.9		14.0		22.7		27.6		30.0	
LAFO_11b	11.6		14.5		16.1		14.4		16.9		18.4	
LAFO_3a	3.9		5.1		6.0		7.0		8.2		9.0	
LAFO_5d	5.8		8.7		10.9		10.6		13.4		15.1	
LAFO_7c	7.1		9.1		10.3		12.0		14.2		15.4	
LAFO_7e	8.1		11.3		13.4		12.5		15.3		17.3	
Larose	-2.5		9.0		12.0		15.0		15.0		15.0	
Luling	6.1		8.6		10.2		11.8		15.5		17.4	
Myrtle_Grove	10.3		13.8		15.7		13.5		17.3		18.6	
Ollie	8.0		13.2		15.3		11.2		19.2		22.1	
PLAQ_11a	12.5		16.7		18.9		15.9		20.5		22.9	
Plaq_Belle_Chase	-2.6		11.0		11.3		11.6		14.3		15.8	
St_Charles_dav_pond	1.6		4.8		11.0		11.0		13.2		14.5	
St_Charles_Sunset	7.0		9.4		10.7		10.0		12.3		13.7	
Sunrise	15.0		16.7		18.9		18.2		26.3		30.2	
West_jeff_ames	-1.5		11.0		11.3		11.6		14.3		15.8	
West_jeff_EoH	-3.5		11.0		11.3		11.6		14.3		15.8	
West_jeff_harvey	-2.4		11.0		11.3		11.6		14.3		15.8	
West_jeff_segnette	-3.9		11.0		11.3		11.6		14.3		15.8	
Evaluation Parameters	Confidence Level:			90%		Levee Design:			No Friction Waves			
	Future Relative Sea Level Rise:			3.2 feet		Levee Overtopping:			No Friction Waves			

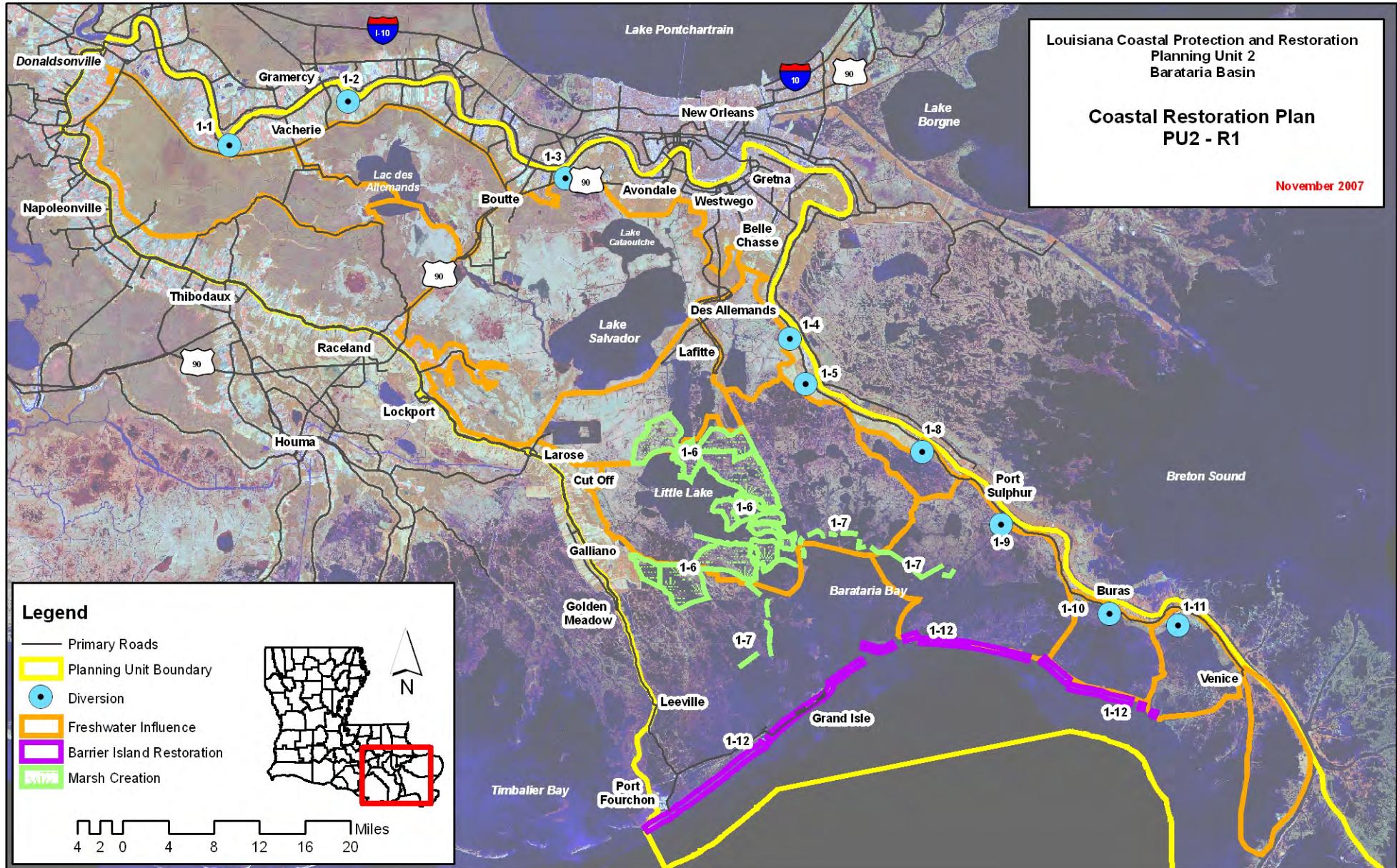
Planning Unit:	2	Alt. No.:	PU2-R1	Category:	Coastal Restoration Only
Alternative Description:	Sustain coastal landscape through restoration including shoreline protection, marsh creation, and steady state diversions.				
Coastal Component:	R1 (steady state diversions)		Nonstructural Component:	None	
Structural Component:	No new levees or increases in risk reduction level for existing levees.				

Scenario	Future Conditions (Relative Sea Level Rise (RSLR) and Redevelopment Assumptions)	Uncertainty	Results by Scenario with Uncertainty Bands								
			Life Cycle Cost	Population Impacted	Residual Damages	Gross Regional Output Impacted	Employment Impacted	People's Earned Income Impacted	Archeo. Sites Protected	Historic Properties Protected	Historic Districts Protected
			Ann. Equiv \$ Millions	Ann. Equiv. #	Ann. Equiv \$ Millions	Ann. Equiv \$ Millions	Ann. Equiv #	Ann. Equiv \$ Millions	# Sites	# Properties	# Districts
1	Low RSLR High Employment Dispersed Population	High	766	15,567	338	563	1,203	77	272	16	7
		Mid		19,716	722	1,063	2,885	187	213	15	6
		Low		21,148	967	1,521	3,806	249	154	13	4
2	High RSLR High Employment Dispersed Population	High	768	15,853	407	711	1,521	110	272	14	7
		Mid		20,012	799	1,193	3,074	208	213	14	6
		Low		21,392	1,063	1,649	4,020	275	154	12	4
3	Low RSLR Business-as-Usual Compact Population	High	766	10,722	330	540	1,193	75	272	16	7
		Mid		14,505	682	938	2,655	161	213	15	6
		Low		15,958	898	1,318	3,411	211	154	13	4
4	High RSLR Business-as-Usual Compact Population	High	768	10,953	370	688	1,433	99	272	14	7
		Mid		14,697	740	1,106	2,857	185	213	14	6
		Low		16,058	962	1,484	3,568	232	154	12	4

Other Results			Wetlands Created/Protected		Scenario 1	Scenario 2	Scenario 3	Scenario 4
Construction Time (years)			After 50 yrs (% of baseline)		101	99	101	99
Direct Wetland Impacts (acres)			After 100 yrs (% of baseline)		108	104	108	104
Indirect Impacts (unitless)			Present Value of Life Cycle Costs (\$ Millions)					
Spatial Integrity (unitless)			Coastal Component		15,001	15,033	15,001	15,033
Non-Federal Share of Present Value of Life Cycle Costs	Scenario	(\$ Millions)	Nonstructural Component		0	0	0	0
	1 / 2	5,250	Structural Component		0	0	0	0
	3 / 4	5,250	Total Project		15,001	15,033	15,001	15,033

2075 Residual Risk / Damages - Low Uncertainty (\$ Millions)								Planning Unit 2 Coastal Plan Coastal Restoration Alt	
Frequency	Scenario 1		Scenario 2		Scenario 3		Scenario 4		
	No Action	With Proj							
	10-year	1,583	1,805	2,834	3,062	1,512	1,692	2,129	2,316
100-year	46,652	6,117	49,467	8,115	37,218	4,915	39,133	6,429	
400-year	51,671	46,912	53,124	47,987	40,614	37,201	41,659	37,872	
1,000-year	53,208	50,259	54,188	51,146	41,777	39,600	42,556	40,134	
2,000-year	53,965	51,581	54,716	52,300	42,386	40,485	42,963	40,926	

Note: Present Value costs and Annual Equivalent numbers are calculated for the period from 2010 to 2075 at common base year 2025 using a 4.7/8% Federal discount rate. All dollar metrics are based on 2007 price levels.



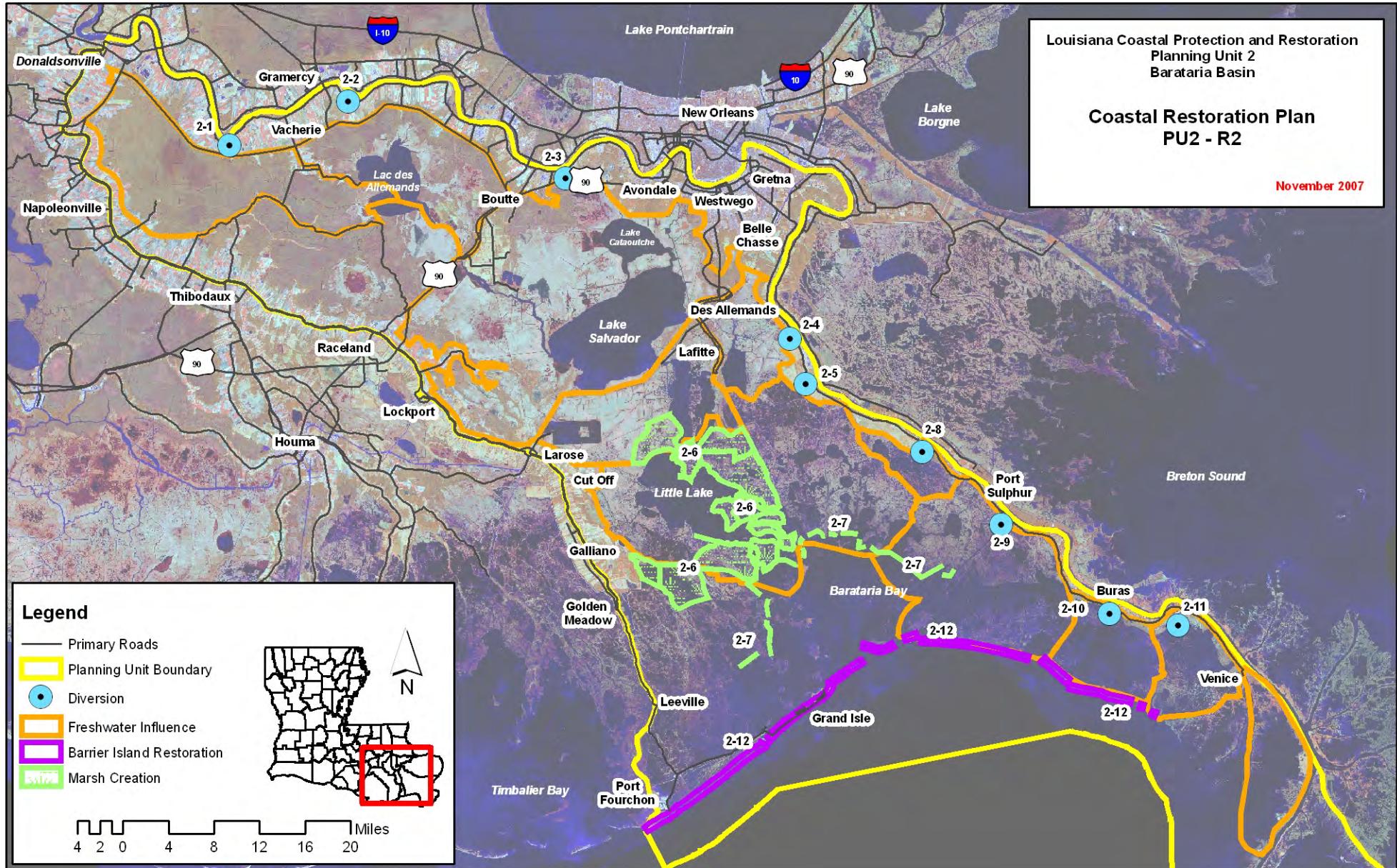
Planning Unit:	2	Alt. No.:	PU2-R2	Category:	Coastal Restoration Only
Alternative Description:	Sustain coastal landscape through restoration including shoreline protection, marsh creation, and pulsed diversions.				
Coastal Component:	R2 (pulsed diversions)		Nonstructural Component:	None	
Structural Component:	No new levees or increases in risk reduction level for existing levees.				

Scenario	Future Conditions (Relative Sea Level Rise (RSLR) and Redevelopment Assumptions)	Uncertainty	Results by Scenario with Uncertainty Bands								
			Life Cycle Cost	Population Impacted	Residual Damages	Gross Regional Output Impacted	Employment Impacted	People's Earned Income Impacted	Archeo. Sites Protected	Historic Properties Protected	Historic Districts Protected
			Ann. Equiv. \$ Millions	Ann. Equiv. #	Ann. Equiv. \$ Millions	Ann. Equiv. \$ Millions	Ann. Equiv. #	Ann. Equiv. \$ Millions	# Sites	# Properties	# Districts
1	Low RSLR High Employment Dispersed Population	High	800	15,567	338	563	1,203	77	272	16	7
		Mid		19,716	722	1,063	2,885	187	213	15	6
		Low		21,148	967	1,521	3,806	249	154	13	4
2	High RSLR High Employment Dispersed Population	High	801	15,853	407	711	1,521	110	272	14	7
		Mid		20,012	799	1,193	3,074	208	213	14	6
		Low		21,392	1,063	1,649	4,020	275	154	12	4
3	Low RSLR Business-as-Usual Compact Population	High	800	10,722	330	540	1,193	75	272	16	7
		Mid		14,505	682	938	2,655	161	213	15	6
		Low		15,958	898	1,318	3,411	211	154	13	4
4	High RSLR Business-as-Usual Compact Population	High	801	10,953	370	688	1,433	99	272	14	7
		Mid		14,697	740	1,106	2,857	185	213	14	6
		Low		16,058	962	1,484	3,568	232	154	12	4

Other Results			Wetlands Created/Protected		Scenario 1	Scenario 2	Scenario 3	Scenario 4
Construction Time (years)			After 50 yrs (% of baseline)		103	99	103	99
Direct Wetland Impacts (acres)			After 100 yrs (% of baseline)		110	104	110	104
Indirect Impacts (unitless)								Present Value of Life Cycle Costs (\$ Millions)
Spatial Integrity (unitless)			Coastal Component		15,657	15,689	15,657	15,689
Non-Federal Share of Present Value of Life Cycle Costs	Scenario	(\$ Millions)		Nonstructural Component		0	0	0
	1 / 2	5,480	5,491	Structural Component		0	0	0
	3 / 4	5,480	5,491	Total Project		15,657	15,689	15,657

2075 Residual Risk / Damages - Low Uncertainty (\$ Millions)								Planning Unit 2 Coastal Plan Coastal Restoration Alt	
Frequency	Scenario 1		Scenario 2		Scenario 3		Scenario 4		
	No Action	With Proj							
10-year	1,583	1,805	2,834	3,062	1,512	1,692	2,129	2,316	
100-year	46,652	6,117	49,467	8,115	37,218	4,915	39,133	6,429	
400-year	51,671	46,912	53,124	47,987	40,614	37,201	41,659	37,872	
1,000-year	53,208	50,259	54,188	51,146	41,777	39,600	42,556	40,134	
2,000-year	53,965	51,581	54,716	52,300	42,386	40,485	42,963	40,926	

Note: Present Value costs and Annual Equivalent numbers are calculated for the period from 2010 to 2075 at common base year 2025 using a 4.7/8% Federal discount rate. All dollar metrics are based on 2007 price levels.



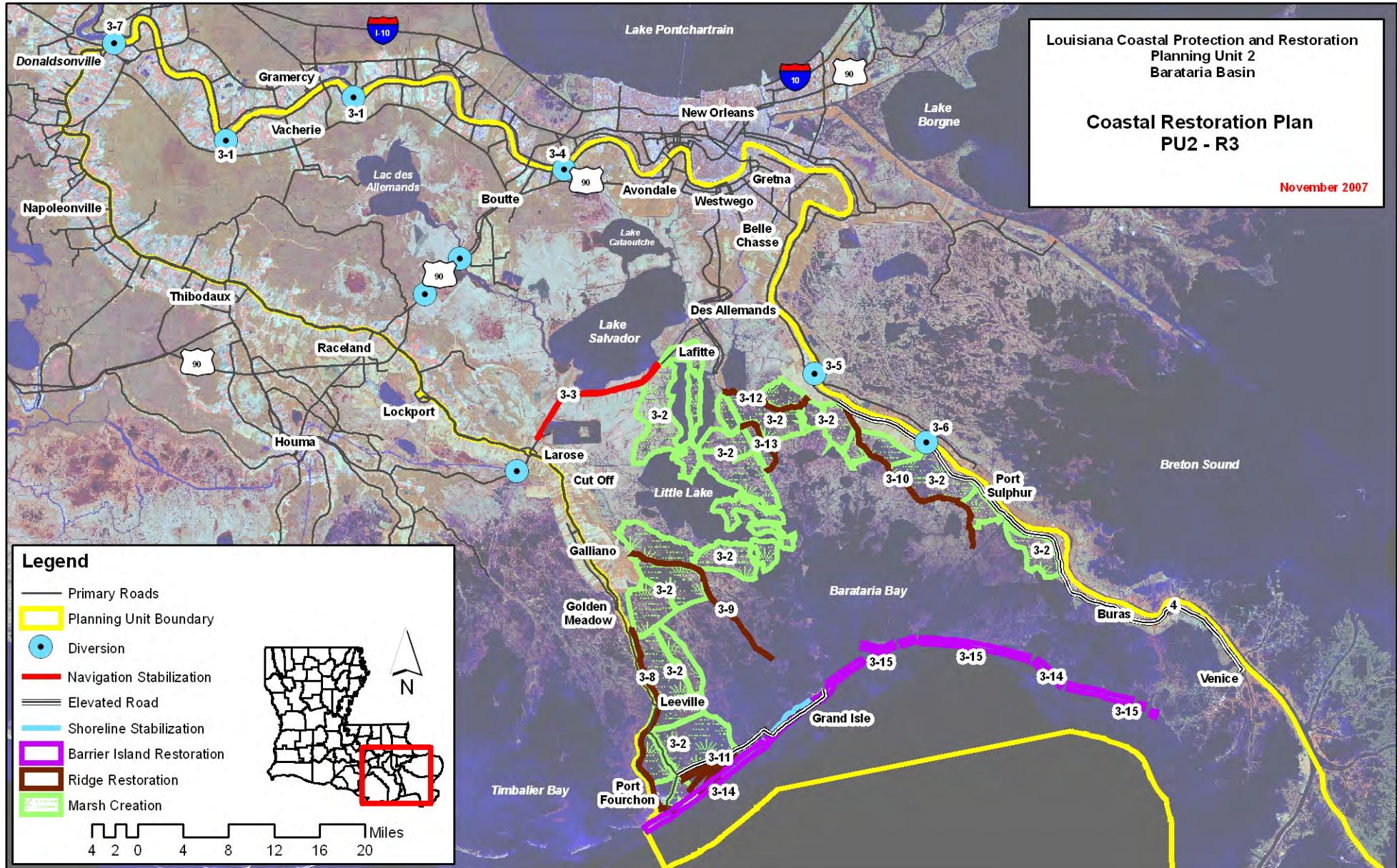
Planning Unit:	2	Alt. No.:	PU2-R3	Category:	Coastal Restoration Only
Alternative Description:	Sustain coastal landscape through restoration including shoreline protection, marsh creation, and diversions as proposed in the State Master Plan.				
Coastal Component:	R3 (state plan)		Nonstructural Component:	None	
Structural Component:	No new levees or increases in risk reduction level for existing levees.				

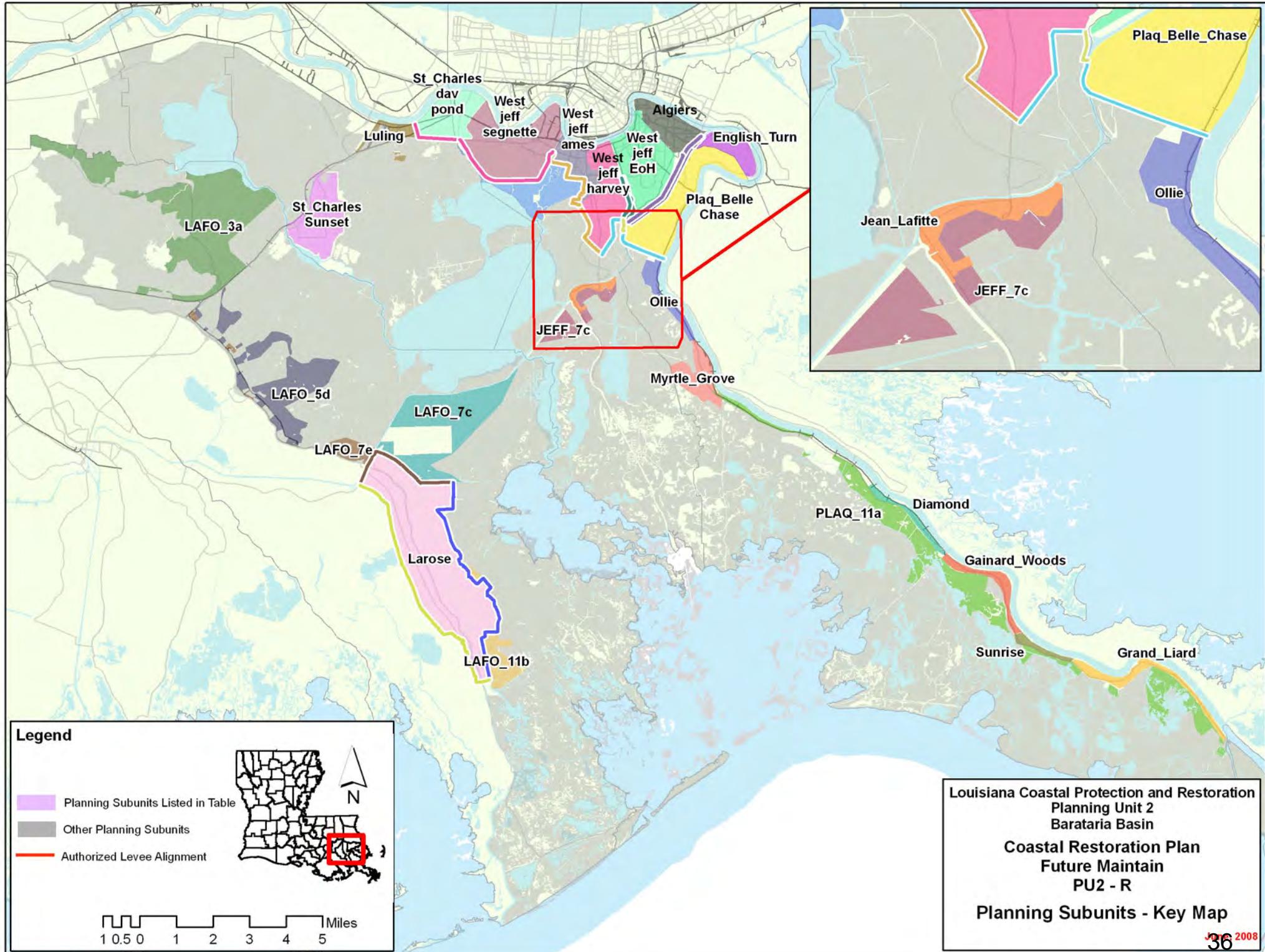
Scenario	Future Conditions (Relative Sea Level Rise (RSLR) and Redevelopment Assumptions)	Uncertainty	Results by Scenario with Uncertainty Bands								
			Life Cycle Cost	Population Impacted	Residual Damages	Gross Regional Output Impacted	Employment Impacted	People's Earned Income Impacted	Archeo. Sites Protected	Historic Properties Protected	Historic Districts Protected
			Ann. Equiv \$ Millions	Ann. Equiv #	Ann. Equiv \$ Millions	Ann. Equiv \$ Millions	Ann. Equiv #	Ann. Equiv \$ Millions	# Sites	# Properties	# Districts
1	Low RSLR High Employment Dispersed Population	High	932	15,567	338	563	1,203	77	272	16	7
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		Mid		14,697	740	1,106	2,857	185	213	14	6
		Low		16,058	962	1,484	3,568	232	154	12	4

Other Results			Wetlands Created/Protected		Scenario 1	Scenario 2	Scenario 3	Scenario 4
Construction Time (years)			After 50 yrs (% of baseline)		105	104	105	104
Direct Wetland Impacts (acres)			After 100 yrs (% of baseline)		101	98	101	98
Indirect Impacts (unitless)			Present Value of Life Cycle Costs (\$ Millions)					
Spatial Integrity (unitless)			Coastal Component		18,245	18,355	18,245	18,355
Non-Federal Share of Present Value of Life Cycle Costs	Scenario	(\$ Millions)	Nonstructural Component		0	0	0	0
	1 / 2	6,386	Structural Component		0	0	0	0
	3 / 4	6,386	Total Project		18,245	18,355	18,245	18,355

2075 Residual Risk / Damages - Low Uncertainty (\$ Millions)								Planning Unit 2 Coastal Plan Coastal Restoration Alt	
Frequency	Scenario 1		Scenario 2		Scenario 3		Scenario 4		
	No Action	With Proj							
10-year	1,583	1,805	2,834	3,062	1,512	1,692	2,129	2,316	
100-year	46,652	6,117	49,467	8,115	37,218	4,915	39,133	6,429	
400-year	51,671	46,912	53,124	47,987	40,614	37,201	41,659	37,872	
1,000-year	53,208	50,259	54,188	51,146	41,777	39,600	42,556	40,134	
2,000-year	53,965	51,581	54,716	52,300	42,386	40,485	42,963	40,926	

Note: Present Value costs and Annual Equivalent numbers are calculated for the period from 2010 to 2075 at common base year 2025 using a 4.7/8% Federal discount rate. All dollar metrics are based on 2007 price levels.





Alternative: PU2-R1, R2, and R3
Water Surface Elevations (feet - NAVD88 2004.65)

Planning Sub Unit	2010 (Base) Conditions*						2060 (Future) Conditions					
	100-yr Event		400-year Event		1,000-yr Event		100-yr Event		400-year Event		1,000-yr Event	
	Without Project	With Project	Without Project	With Project	Without Project	With Project	Without Project	With Project	Without Project	With Project	Without Project	With Project
Algiers	-3.9	-3.9	10.7	10.7	12.1	12.1	12.9	-3.9	16.3	10.7	17.9	10.7
Diamond	13.0	13.0	16.7	16.7	18.9	18.9	16.2	16.2	26.3	19.9	30.2	22.1
English_Turn	-1.7	-1.7	10.7	10.7	12.1	12.1	12.9	-1.7	16.3	10.7	17.9	12.1
Gainard_Woods	13.5	13.5	17.3	17.3	19.7	19.7	16.7	16.7	20.5	20.5	22.9	22.9
Grand_Liard	15.0	15.0	16.7	16.7	18.9	18.9	18.2	18.2	26.3	19.9	30.2	22.1
Jean_Lafitte	8.4	8.4	11.9	11.9	14.0	14.0	13.0	11.6	16.9	15.1	19.3	17.2
JEFF_7a	7.7	7.7	10.8	10.8	13.1	13.1	12.8	10.9	17.1	14.0	18.2	16.3
JEFF_7c	8.4	8.4	11.9	11.9	14.0	14.0	22.7	11.6	27.6	15.1	30.0	17.2
LAFO_11b	11.6	11.6	14.5	14.5	16.1	16.1	14.4	14.4	16.9	16.9	18.4	18.4
LAFO_3a	3.9	3.9	5.1	5.1	6.0	6.0	7.0	7.0	8.2	8.2	9.0	9.0
LAFO_5d	5.8	5.8	8.7	8.7	10.9	10.9	10.6	9.0	13.4	11.9	15.1	14.1
LAFO_7c	7.1	7.1	9.1	9.1	10.3	10.3	12.0	10.3	14.2	12.3	15.4	13.5
LAFO_7e	8.1	8.1	11.3	11.3	13.4	13.4	12.5	11.3	15.3	14.5	17.3	16.6
Larose	-2.5	-2.5	9.0	9.0	12.0	12.0	15.0	-2.5	15.0	9.0	15.0	12.0
Luling	6.1	6.1	8.6	8.6	10.2	10.2	11.8	9.3	15.5	11.8	17.4	13.4
Myrtle_Grove	10.3	10.3	13.8	13.8	15.7	15.7	13.5	13.5	17.3	17.0	18.6	18.6
Ollie	8.0	8.0	13.2	13.2	15.3	15.3	11.2	11.2	19.2	16.4	22.1	18.5
PLAQ_11a	12.5	12.5	16.7	16.7	18.9	18.9	15.9	15.7	20.5	19.9	22.9	22.1
Plaq_Belle_Chase	-2.7	-2.7	11.0	11.0	11.3	11.3	11.6	-2.7	14.3	11.0	15.8	11.3
St_Charles_dav_pond	1.6	1.6	4.8	4.8	11.0	11.0	11.0	1.6	13.2	4.8	14.5	11.0
St_Charles_Sunset	7.0	7.0	9.4	9.4	10.7	10.7	10.0	10.0	12.3	12.3	13.7	13.7
Sunrise	15.0	15.0	16.7	16.7	18.9	18.9	18.2	18.2	26.3	19.9	30.2	22.1
West_jeff_ames	-1.5	-1.5	11.0	11.0	11.3	11.3	11.6	-1.5	14.3	11.0	15.8	11.3
West_jeff_EoH	-3.6	-3.6	11.0	11.0	11.3	11.3	11.6	-3.6	14.3	11.0	15.8	11.3
West_jeff_harvey	-2.4	-2.4	11.0	11.0	11.3	11.3	11.6	-2.4	14.3	11.0	15.8	11.3
West_jeff_segnette	-3.9	-3.9	11.0	11.0	11.3	11.3	11.6	-3.9	14.3	11.0	15.8	11.3
Evaluation Parameters	Confidence Level:			90%	3.2 feet	Levee Design:			No Friction Waves			
	Future Relative Sea Level Rise:					Levee Overtopping:			No Friction Waves			

* With and without project base conditions (2010) are the same for coastal restoration only plans.

Planning Unit:	2	Alt. No.:	PU2-NS-100	Category:	Coastal Restoration + Nonstructural Measures
Alternative Description:	Sustain coastal landscape through restoration. Implement comprehensive 100-year nonstructural measures.				
Coastal Component:	R2 (pulsed diversions)		Nonstructural Component:		100-yr stand alone measures
Structural Component:	No new levees or increases in risk reduction level for existing levees.				

Scenario	Future Conditions (Relative Sea Level Rise (RSLR) and Redevelopment Assumptions)	Uncertainty	Results by Scenario with Uncertainty Bands								
			Life Cycle Cost	Population Impacted	Residual Damages	Gross Regional Output Impacted	Employment Impacted	People's Earned Income Impacted	Archeo. Sites Protected	Historic Properties Protected	Historic Districts Protected
			Ann. Equiv. \$ Millions	Ann. Equiv. #	Ann. Equiv. \$ Millions	Ann. Equiv. \$ Millions	Ann. Equiv. #	Ann. Equiv. \$ Millions	# Sites	# Properties	# Districts
1	Low RSLR High Employment Dispersed Population	High	1,017	14,024	159	166	462	24	272	16	7
		Mid		17,787	444	549	1,890	105	213	15	6
		Low		19,187	649	797	2,611	145	154	13	4
2	High RSLR High Employment Dispersed Population	High	1,018	14,171	187	262	668	44	272	14	7
		Mid		17,939	487	617	2,019	117	213	14	6
		Low		19,312	701	868	2,745	160	154	12	4
3	Low RSLR Business-as-Usual Compact Population	High	1,023	9,774	147	157	458	23	272	16	7
		Mid		13,326	420	492	1,783	92	213	15	6
		Low		14,794	592	709	2,415	127	154	13	4
4	High RSLR Business-as-Usual Compact Population	High	1,025	9,893	165	255	628	40	272	14	7
		Mid		13,425	451	588	1,931	107	213	14	6
		Low		14,846	630	801	2,523	139	154	12	4

Other Results			Wetlands Created/Protected		Scenario 1	Scenario 2	Scenario 3	Scenario 4
Construction Time (years)			After 50 yrs (% of baseline)		103	99	103	99
Direct Wetland Impacts (acres)			After 100 yrs (% of baseline)		110	104	110	104
Indirect Impacts (unitless)			Present Value of Life Cycle Costs (\$ Millions)					
Spatial Integrity (unitless)			Coastal Component		15,657	15,689	15,657	15,689
Non-Federal Share of Present Value of Life Cycle Costs	Scenario	(\$ Millions)		Nonstructural Component		4,263	4,263	4,391
	1 / 2	6,972	6,983	Structural Component		0	0	0
	3 / 4	7,017	7,028	Total Project		19,920	19,952	20,048
2075 Residual Risk / Damages - Low Uncertainty (\$ Millions)								Planning Unit 2 Nonstructural Plan 100-year Design

Frequency	Scenario 1		Scenario 2		Scenario 3		Scenario 4	
	No Action	With Proj						
10-year	1,583	629	2,834	1,754	1,512	491	2,129	983
100-year	46,652	3,483	49,467	5,724	37,218	2,278	39,133	4,200
400-year	51,671	44,758	53,124	46,011	40,614	35,265	41,659	36,162
1,000-year	53,208	48,282	54,188	49,205	41,777	37,928	42,556	38,541
2,000-year	53,965	49,627	54,716	50,418	42,386	38,886	42,963	39,404

Note: Present Value costs and Annual Equivalent numbers are calculated for the period from 2010 to 2075 at common base year 2025 using a 4.78% Federal discount rate. All dollar metrics are based on 2007 price levels.

Louisiana Coastal Protection and Restoration
Planning Unit 2
Barataria Basin

Nonstructural Plan
PU2 - NS - 100
(100 - Year Risk Reduction)

April 2008

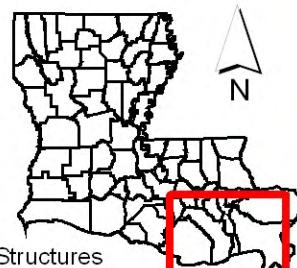
Legend

- Primary Roads
- Authorized 100 -Year Levee
- Planning Unit 2

Voluntary Nonstructural Measures

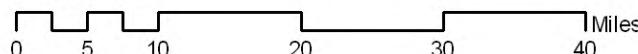
Inundation Zones:

- Water Depths <14 feet, Raise-In-Place of Structures
- Water Depths ≥ 14 feet, Buyout of Structures



Velocity Zones:

- Buyout of Structures



NOTE:

"Velocity zones (Vzones): Areas exposed to storm surge velocity, defined by FEMA, closest to shoreline subject to wave action, high-velocity flows, and erosion from a 100-year (1 percent annual chance) flood. Structures in Vzones would be eligible for voluntary buyout."

Planning Unit:	2	Alt. No.:	PU2-NS-400	Category:	Coastal Restoration + Nonstructural Measures
Alternative Description:	Sustain coastal landscape through restoration. Implement comprehensive 400-year nonstructural measures.				
Coastal Component:	R2 (pulsed diversions)		Nonstructural Component:		400-yr stand alone measures
Structural Component:	No new levees or increases in risk reduction level for existing levees.				

Scenario	Future Conditions (Relative Sea Level Rise (RSLR) and Redevelopment Assumptions)	Uncertainty	Results by Scenario with Uncertainty Bands								
			Life Cycle Cost	Population Impacted	Residual Damages	Gross Regional Output Impacted	Employment Impacted	People's Earned Income Impacted	Archeo. Sites Protected	Historic Properties Protected	Historic Districts Protected
			Ann. Equiv. \$ Millions	Ann. Equiv. #	Ann. Equiv. \$ Millions	Ann. Equiv. \$ Millions	Ann. Equiv. #	Ann. Equiv. \$ Millions	# Sites	# Properties	# Districts
1	Low RSLR High Employment Dispersed Population	High	1,603	11,761	115	108	306	14	272	16	7
		Mid		15,241	241	230	935	43	213	15	6
		Low		16,460	332	488	1,873	92	154	13	4
2	High RSLR High Employment Dispersed Population	High	1,604	11,908	120	127	343	17	272	14	7
		Mid		15,394	252	253	966	46	213	14	6
		Low		16,586	360	595	2,045	110	154	12	4
3	Low RSLR Business-as-Usual Compact Population	High	2,206	7,989	113	107	303	13	272	16	7
		Mid		11,306	239	227	942	42	213	15	6
		Low		12,534	324	457	1,826	87	154	13	4
4	High RSLR Business-as-Usual Compact Population	High	2,208	8,108	116	129	359	18	272	14	7
		Mid		11,406	247	250	985	46	213	14	6
		Low		12,585	339	584	2,001	105	154	12	4

Other Results			Wetlands Created/Protected		Scenario 1	Scenario 2	Scenario 3	Scenario 4
Construction Time (years)			After 50 yrs (% of baseline)		103	99	103	99
Direct Wetland Impacts (acres)			After 100 yrs (% of baseline)		110	104	110	104
Indirect Impacts (unitless)			Present Value of Life Cycle Costs (\$ Millions)					
Spatial Integrity (unitless)			Coastal Component		15,657	15,689	15,657	15,689
Non-Federal Share of Present Value of Life Cycle Costs	Scenario	(\$ Millions)		Nonstructural Component		15,762	15,762	27,608
	1 / 2	10,997	11,008	Structural Component		0	0	0
	3 / 4	15,143	15,154	Total Project		31,419	31,451	43,265

2075 Residual Risk / Damages - Low Uncertainty (\$ Millions)								Planning Unit 2 Nonstructural Plan 400-year Design	
Frequency	Scenario 1		Scenario 2		Scenario 3		Scenario 4		
	No Action	With Proj							
10-year	1,583	256	2,834	577	1,512	211	2,129	405	
100-year	46,652	517	49,467	1,821	37,218	445	39,133	1,044	
400-year	51,671	5,548	53,124	7,537	40,614	4,016	41,659	5,752	
1,000-year	53,208	13,451	54,188	14,793	41,777	9,816	42,556	10,693	
2,000-year	53,965	24,867	54,716	25,943	42,386	18,767	42,963	19,548	

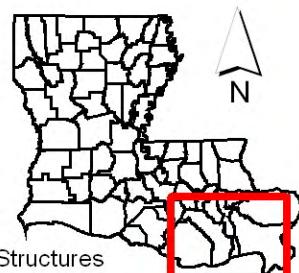
Note: Present Value costs and Annual Equivalent numbers are calculated for the period from 2010 to 2075 at common base year 2025 using a 4 7/8% Federal discount rate. All dollar metrics are based on 2007 price levels.

Nonstructural Plan
PU2 - NS - 400
(400 - Year Risk Reduction)

April 2008

Legend

- Primary Roads
- Authorized 100 -Year Levee
- Planning Unit 2



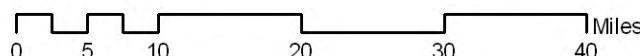
Voluntary Nonstructural Measures

Inundation Zones:

- Water Depths <14 feet, Raise-In-Place of Structures
- Water Depths ≥ 14 feet, Buyout of Structures

Velocity Zones:

- Buyout of Structures



NOTE:

"Velocity zones (Vzones): Areas exposed to storm surge velocity, defined by FEMA, closest to shoreline subject to wave action, high-velocity flows, and erosion from a 100-year (1 percent annual chance) flood. Structures in Vzones would be eligible for voluntary buyout."

Planning Unit:	2	Alt. No.:	PU2-NS-1000	Category:	Coastal Restoration + Nonstructural Measures
Alternative Description:	Sustain coastal landscape through restoration. Implement comprehensive 1000-year nonstructural measures.				
Coastal Component:	R2 (pulsed diversions)		Nonstructural Component:	1000-yr stand alone measures	
Structural Component:	No new levees or increases in risk reduction level for existing levees.				

Scenario	Future Conditions (Relative Sea Level Rise (RSLR) and Redevelopment Assumptions)	Uncertainty	Results by Scenario with Uncertainty Bands								
			Life Cycle Cost	Population Impacted	Residual Damages	Gross Regional Output Impacted	Employment Impacted	People's Earned Income Impacted	Archeo. Sites Protected	Historic Properties Protected	Historic Districts Protected
			Ann. Equiv. \$ Millions	Ann. Equiv. #	Ann. Equiv. \$ Millions	Ann. Equiv. \$ Millions	Ann. Equiv. #	Ann. Equiv. \$ Millions	# Sites	# Properties	# Districts
1	Low RSLR High Employment Dispersed Population	High	2,294	11,358	111	108	304	14	272	16	7
		Mid		14,699	227	180	761	32	213	15	6
		Low		15,909	302	270	1,058	45	154	13	4
2	High RSLR High Employment Dispersed Population	High	2,296	11,505	113	109	308	14	272	14	7
		Mid		14,852	232	190	783	34	213	14	6
		Low		16,035	312	305	1,128	51	154	12	4
3	Low RSLR Business-as-Usual Compact Population	High	2,316	7,845	110	106	300	13	272	16	7
		Mid		11,051	228	178	769	32	213	15	6
		Low		12,275	301	261	1,035	43	154	13	4
4	High RSLR Business-as-Usual Compact Population	High	2,318	7,963	111	107	307	14	272	14	7
		Mid		11,150	231	186	794	34	213	14	6
		Low		12,326	306	309	1,137	52	154	12	4

Other Results			Wetlands Created/Protected		Scenario 1	Scenario 2	Scenario 3	Scenario 4
Construction Time (years)			After 50 yrs (% of baseline)		103	99	103	99
Direct Wetland Impacts (acres)			After 100 yrs (% of baseline)		110	104	110	104
Indirect Impacts (unitless)			Present Value of Life Cycle Costs (\$ Millions)					
Spatial Integrity (unitless)			Coastal Component		15,657	15,689	15,657	15,689
Non-Federal Share of Present Value of Life Cycle Costs	Scenario	(\$ Millions)	Nonstructural Component		29,329	29,329	29,764	29,764
	1 / 2	15,745	Structural Component		0	0	0	0
	3 / 4	15,897	Total Project		44,986	45,018	45,421	45,453

2075 Residual Risk / Damages - Low Uncertainty (\$ Millions)								Planning Unit 2 Nonstructural Plan 1000-year Design	
Frequency	Scenario 1		Scenario 2		Scenario 3		Scenario 4		
	No Action	With Proj							
10-year	1,583	155	2,834	288	1,512	131	2,129	187	
100-year	46,652	349	49,467	670	37,218	310	39,133	491	
400-year	51,671	1,950	53,124	3,902	40,614	1,573	41,659	2,652	
1,000-year	53,208	4,675	54,188	6,759	41,777	3,346	42,556	5,180	
2,000-year	53,965	9,862	54,716	11,766	42,386	7,641	42,963	8,659	

Note: Present Value costs and Annual Equivalent numbers are calculated for the period from 2010 to 2075 at common base year 2025 using a 4.78% Federal discount rate. All dollar metrics are based on 2007 price levels.

Louisiana Coastal Protection and Restoration
Planning Unit 2
Barataria Basin

Nonstructural Plan
PU2 - NS - 1000
(1000 - Year Risk Reduction)

April 2008

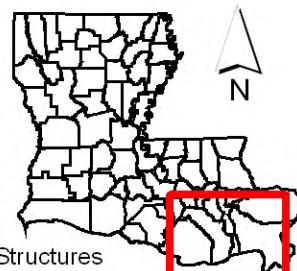
Legend

- Primary Roads
- Authorized 100 -Year Levee
- Planning Unit 2

Voluntary Nonstructural Measures

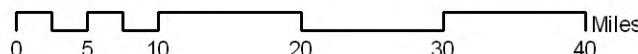
Inundation Zones:

- Water Depths <14 feet, Raise-In-Place of Structures
- Water Depths ≥ 14 feet, Buyout of Structures



Velocity Zones:

- Buyout of Structures



NOTE:

"Velocity zones (Vzones): Areas exposed to storm surge velocity, defined by FEMA, closest to shoreline subject to wave action, high-velocity flows, and erosion from a 100-year (1 percent annual chance) flood. Structures in Vzones would be eligible for voluntary buyout."

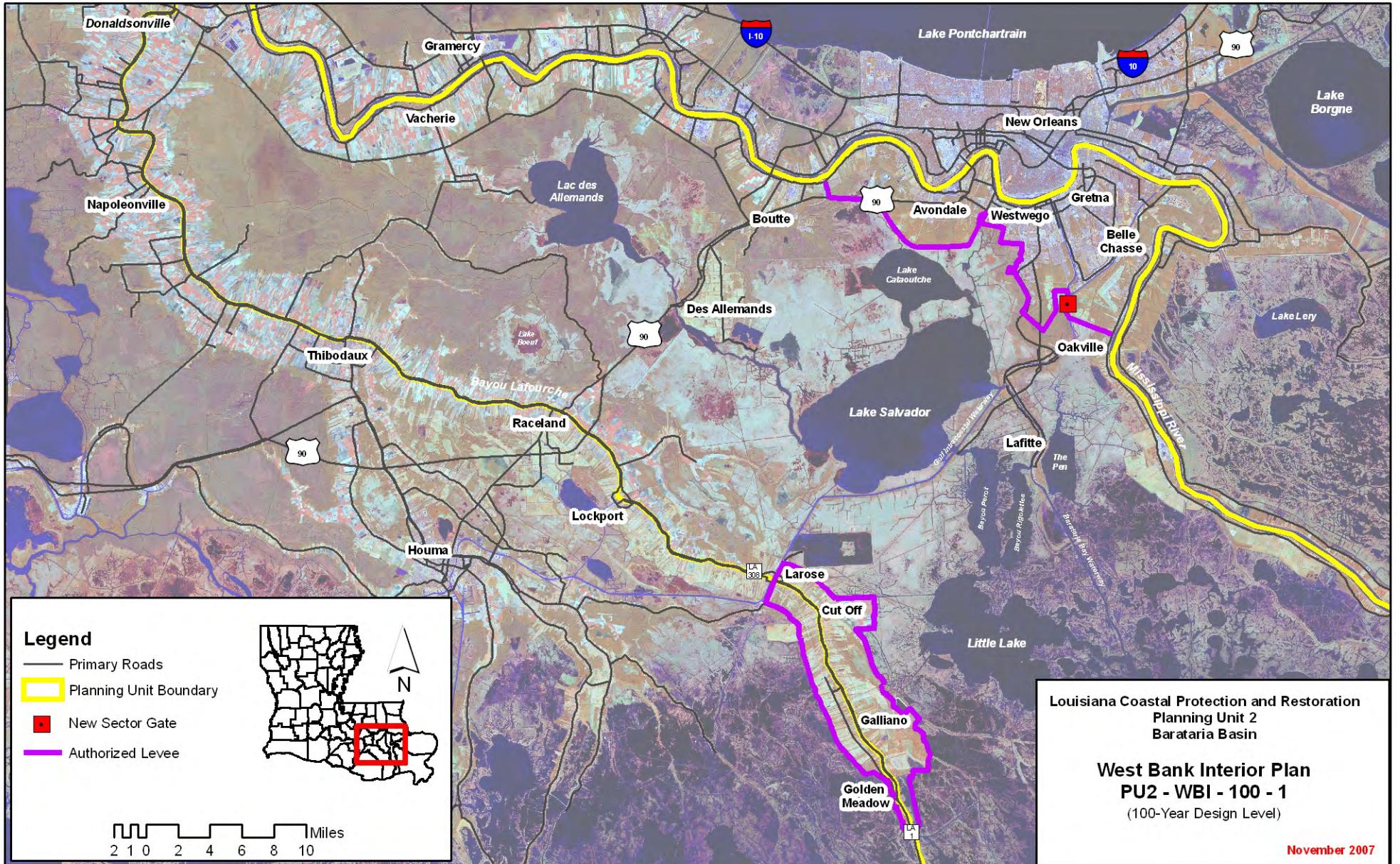
Planning Unit:	2	Alt. No.:	PU2-WBI-100-1	Category:	Coastal Restoration + Structural Measures
Alternative Description:	Sustain coastal landscape through restoration. Construct new sector gate on Bayou Barataria to reduce risk on the West Bank.				
Coastal Component:	R2 (pulsed diversions)		Nonstructural Component:		None
Structural Component:	See alternative description above.				

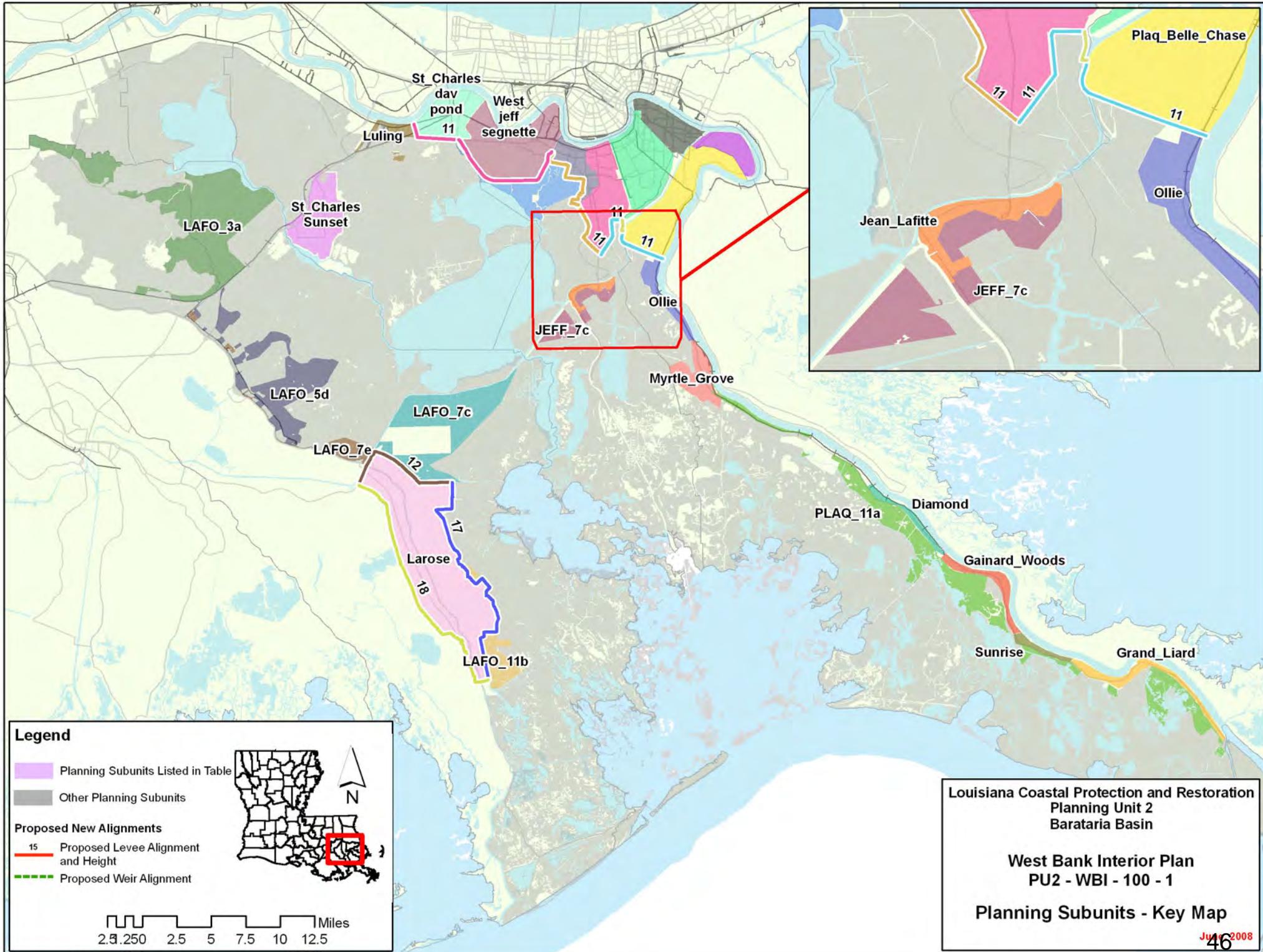
Scenario	Future Conditions (Relative Sea Level Rise (RSLR) and Redevelopment Assumptions)	Uncertainty	Results by Scenario with Uncertainty Bands								
			Life Cycle Cost	Population Impacted	Residual Damages	Gross Regional Output Impacted	Employment Impacted	People's Earned Income Impacted	Archeo. Sites Protected	Historic Properties Protected	Historic Districts Protected
			Ann. Equiv. \$ Millions	Ann. Equiv. #	Ann. Equiv. \$ Millions	Ann. Equiv. \$ Millions	Ann. Equiv. #	Ann. Equiv. \$ Millions	# Sites	# Properties	# Districts
1	Low RSLR High Employment Dispersed Population	High	851	15,555	353	581	1,264	84	266	17	8
		Mid		19,088	683	1,050	2,670	179	213	15	7
		Low		20,935	983	1,541	3,883	256	160	14	6
2	High RSLR High Employment Dispersed Population	High	853	16,029	449	772	1,722	128	266	15	7
		Mid		19,381	758	1,167	2,840	197	213	14	7
		Low		21,153	1,070	1,657	4,075	279	160	13	6
3	Low RSLR Business-as-Usual Compact Population	High	851	10,792	340	523	1,230	80	266	17	8
		Mid		14,045	644	916	2,449	154	213	15	7
		Low		15,876	921	1,335	3,491	218	160	14	6
4	High RSLR Business-as-Usual Compact Population	High	853	11,162	406	725	1,563	112	266	15	7
		Mid		14,233	700	1,064	2,629	175	213	14	7
		Low		15,966	977	1,483	3,632	236	160	13	6

Other Results			Wetlands Created/Protected		Scenario 1	Scenario 2	Scenario 3	Scenario 4
Construction Time (years)			After 50 yrs (% of baseline)		103	99	103	99
Direct Wetland Impacts (acres)			After 100 yrs (% of baseline)		110	104	110	104
Indirect Impacts (unitless)			Present Value of Life Cycle Costs (\$ Millions)					
Spatial Integrity (unitless)			Coastal Component		15,657	15,689	15,657	15,689
Non-Federal Share of Present Value of Life Cycle Costs	Scenario	(\$ Millions)		Nonstructural Component		0	0	0
	1 / 2	5,858	5,877	Structural Component		999	1,024	999
	3 / 4	5,858	5,877	Total Project		16,656	16,713	16,656

2075 Residual Risk / Damages - Low Uncertainty (\$ Millions)								Planning Unit 2 Structural Plan West Bank Alt 100-year Design	
Frequency	Scenario 1		Scenario 2		Scenario 3		Scenario 4		
	No Action	With Proj							
10-year	1,583	1,805	2,834	3,062	1,512	1,692	2,129	2,316	
100-year	46,652	6,102	49,467	8,100	37,218	4,903	39,133	6,416	
400-year	51,671	40,302	53,124	41,377	40,614	33,950	41,659	34,622	
1,000-year	53,208	44,147	54,188	45,034	41,777	36,705	42,556	37,239	
2,000-year	53,965	45,405	54,716	46,123	42,386	37,560	42,963	38,001	

Note: Present Value costs and Annual Equivalent numbers are calculated for the period from 2010 to 2075 at common base year 2025 using a 4.78% Federal discount rate. All dollar metrics are based on 2007 price levels.





Alternative: PU2-WBI-100-1
Water Surface Elevations (feet - NAVD88 2004.65)

Planning Sub Unit	2010 (Base) Conditions						2060 (Future) Conditions					
	100-yr Event		400-year Event		1,000-yr Event		100-yr Event		400-year Event		1,000-yr Event	
	Without Project	With Project	Without Project	With Project	Without Project	With Project	Without Project	With Project	Without Project	With Project	Without Project	With Project
Algiers	-3.8	-3.9	10.7	-3.9	12.1	-3.9	12.9	-3.9	16.3	-3.9	17.9	-3.9
Diamond	13.0	13.0	16.7	16.7	18.9	18.9	16.2	16.2	26.3	19.9	30.2	22.1
English_Turn	-1.7	-1.7	10.7	-1.7	12.1	-1.7	12.9	-1.7	16.3	-1.7	17.9	-1.7
Gainard_Woods	13.5	13.5	17.3	17.3	19.7	19.7	16.7	16.7	20.5	20.5	22.9	22.9
Grand_Liard	15.0	15.0	16.7	16.7	18.9	18.9	18.2	18.2	26.3	19.9	30.2	22.1
Jean_Lafitte	8.4	8.4	11.9	11.9	14.0	14.0	13.0	11.6	16.9	15.1	19.3	17.2
JEFF_7a	7.7	7.7	10.8	10.8	13.1	13.1	12.8	10.9	17.1	14.0	18.2	16.3
JEFF_7c	8.4	8.4	11.9	11.9	14.0	14.0	22.7	11.6	27.6	15.1	30.0	17.2
LAFO_11b	11.6	11.6	14.5	14.5	16.1	16.1	14.4	14.8	16.9	17.7	18.4	19.3
LAFO_3a	3.9	3.9	5.1	5.1	6.0	6.0	7.0	7.1	8.2	8.3	9.0	9.2
LAFO_5d	5.8	5.8	8.7	8.7	10.9	10.9	10.6	9.0	13.4	11.9	15.1	14.1
LAFO_7c	7.1	7.1	9.1	9.1	10.3	10.3	12.0	10.3	14.2	12.3	15.4	13.5
LAFO_7e	8.1	8.1	11.3	11.3	13.4	13.4	12.5	11.3	15.3	14.5	17.3	16.6
Larose	-2.5	-2.5	9.0	9.0	12.0	12.0	15.0	-2.5	15.0	9.0	15.0	12.0
Luling	6.1	6.1	8.6	8.6	10.2	10.2	11.8	11.2	15.5	13.7	17.4	15.3
Myrtle_Grove	10.3	10.3	13.8	13.8	15.7	15.7	13.5	13.5	17.3	17.0	18.6	18.9
Ollie	8.0	8.0	13.2	13.2	15.3	15.3	11.2	11.2	19.2	16.4	22.1	18.5
PLAQ_11a	12.5	12.5	16.7	16.7	18.9	18.9	15.9	15.7	20.5	19.9	22.9	22.1
Plaq_Belle_Chase	-2.6	-2.7	11.0	5.1	11.3	11.3	11.6	-2.7	14.3	5.1	15.8	11.3
St_Charles_dav_pond	1.6	1.6	4.8	4.8	11.0	11.0	11.0	1.6	13.2	4.8	14.5	11.0
St_Charles_Sunset	7.0	7.0	9.4	9.4	10.7	10.7	10.0	10.2	12.3	12.6	13.7	13.9
Sunrise	15.0	15.0	16.7	16.7	18.9	18.9	18.2	18.2	26.3	19.9	30.2	22.1
West_jeff_ames	-1.5	-1.5	11.0	11.0	11.3	11.3	11.6	-1.5	14.3	11.0	15.8	11.3
West_jeff_EoH	-3.5	-3.6	11.0	11.0	11.3	11.3	11.6	-3.6	14.3	11.0	15.8	11.3
West_jeff_harvey	-2.4	-2.4	11.0	11.0	11.3	11.3	11.6	-2.4	14.3	11.0	15.8	11.3
West_jeff_segnette	-3.9	-3.9	11.0	11.0	11.3	11.3	11.6	-3.9	14.3	11.0	15.8	11.3
Evaluation Parameters	Confidence Level:			90%			Levee Design:			No Friction Waves		
	Future Relative Sea Level Rise:			3.2 feet			Levee Overtopping:			No Friction Waves		

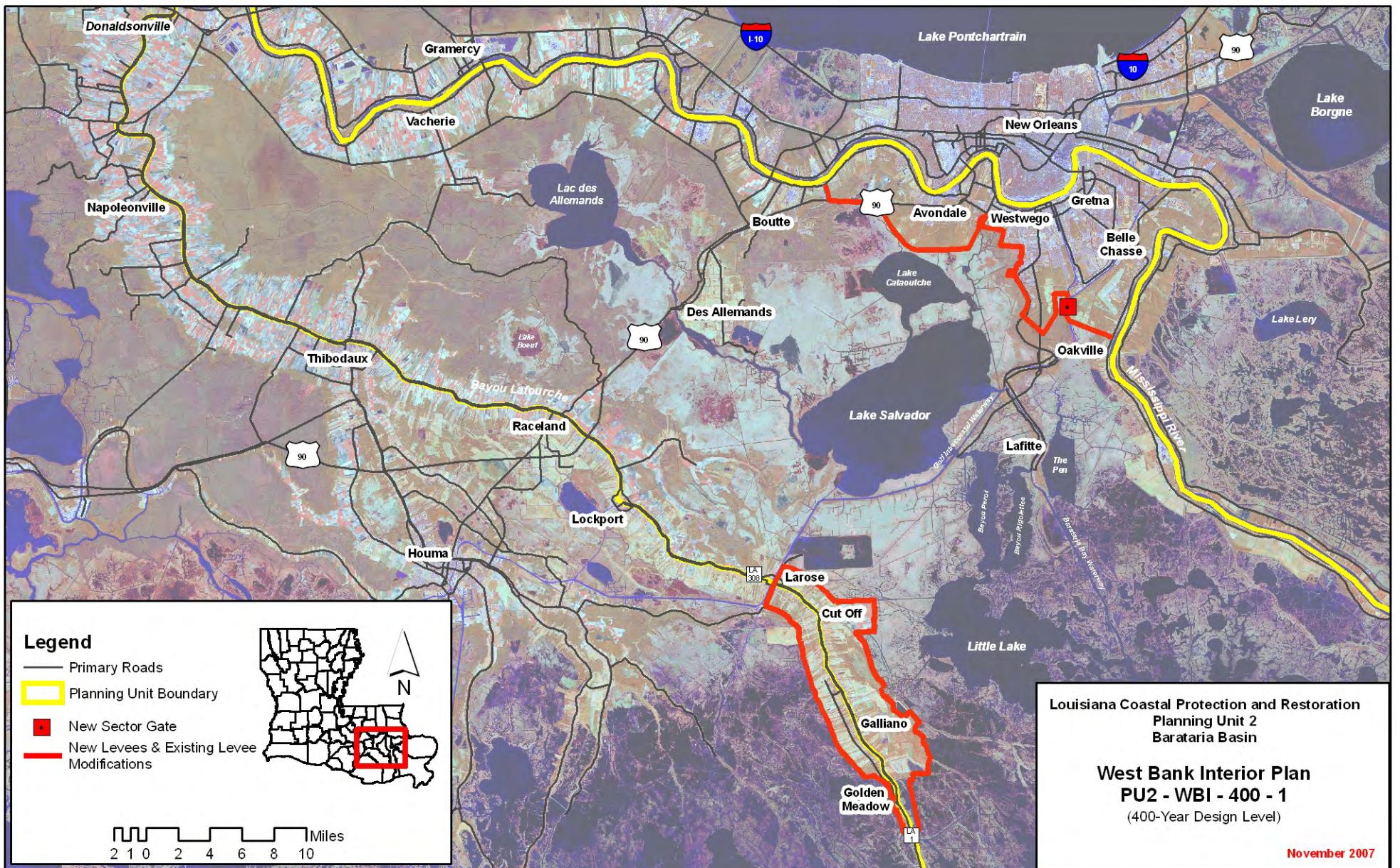
Planning Unit:	2	Alt. No.:	PU2-WBI-400-1	Category:	Coastal Restoration + Structural Measures
Alternative Description:	Sustain coastal landscape through restoration. Construct new sector gate on Bayou Barataria to reduce risk on the West Bank. Raise West Bank and Vicinity and Larose to Golden Meadow levees to 400-year level of risk reduction.				
Coastal Component:	R2 (pulsed diversions)		Nonstructural Component:	None	
Structural Component:	See alternative description above.				

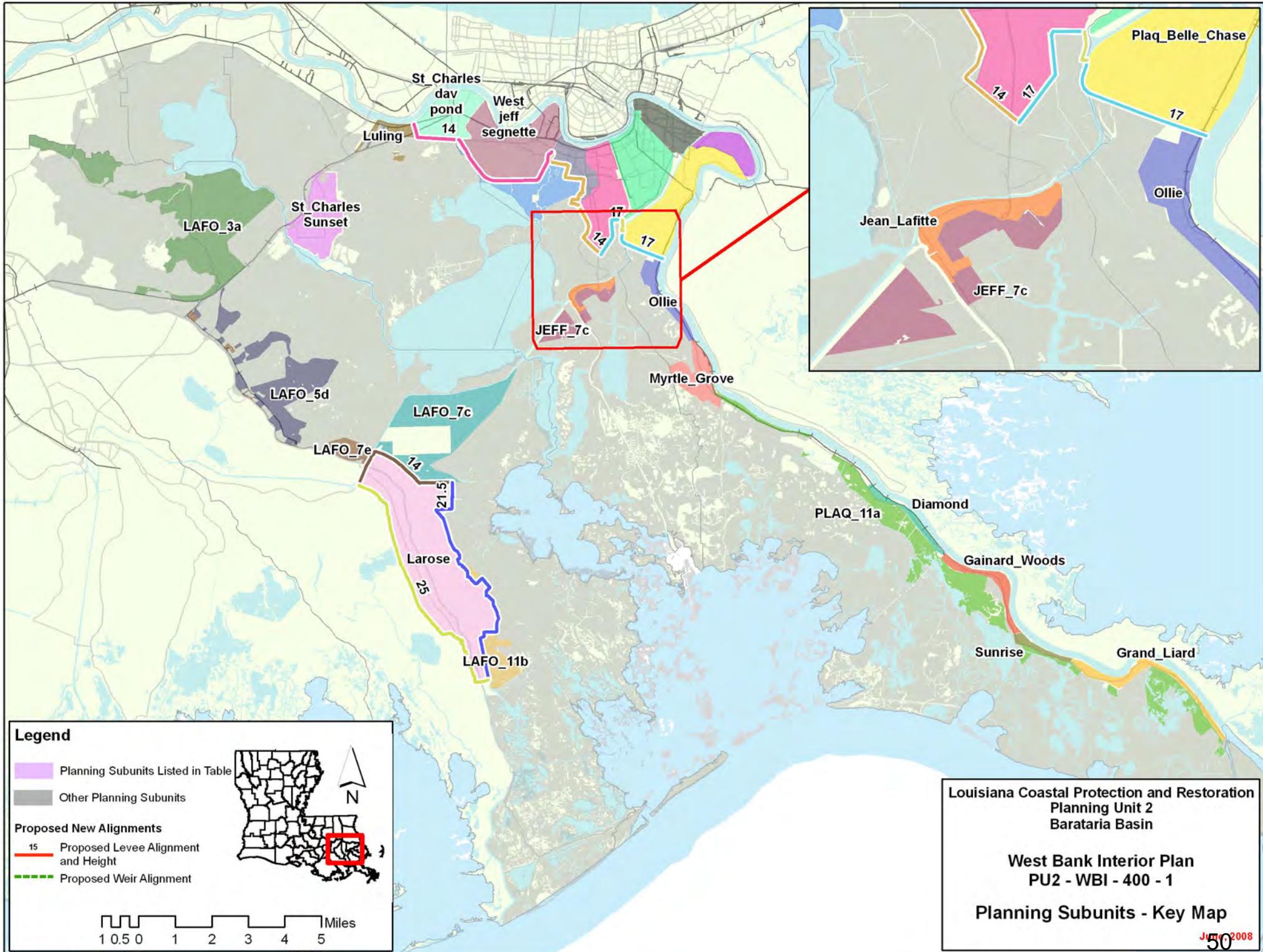
Scenario	Future Conditions (Relative Sea Level Rise (RSLR) and Redevelopment Assumptions)	Uncertainty	Results by Scenario with Uncertainty Bands								
			Life Cycle Cost	Population Impacted	Residual Damages	Gross Regional Output Impacted	Employment Impacted	People's Earned Income Impacted	Archeo. Sites Protected	Historic Properties Protected	Historic Districts Protected
			Ann. Equiv. \$ Millions	Ann. Equiv. #	Ann. Equiv. \$ Millions	Ann. Equiv. \$ Millions	Ann. Equiv. #	Ann. Equiv. \$ Millions	# Sites	# Properties	# Districts
1	Low RSLR High Employment Dispersed Population	High	1,734	15,882	387	647	1,431	101	266	26	9
		Mid		19,334	754	1,194	3,024	214	213	26	9
		Low		20,472	944	1,487	3,660	251	160	25	8
2	High RSLR High Employment Dispersed Population	High	1,737	16,705	537	923	2,160	169	266	26	9
		Mid		19,651	833	1,301	3,181	231	213	25	9
		Low		20,669	1,023	1,596	3,836	271	160	23	8
3	Low RSLR Business-as-Usual Compact Population	High	1,734	11,124	366	604	1,349	92	266	26	9
		Mid		14,215	697	1,022	2,678	178	213	26	9
		Low		15,397	867	1,278	3,220	209	160	25	8
4	High RSLR Business-as-Usual Compact Population	High	1,737	11,752	480	833	1,866	141	266	26	9
		Mid		14,412	755	1,154	2,842	197	213	25	9
		Low		15,481	919	1,412	3,349	226	160	23	8

Other Results			Wetlands Created/Protected		Scenario 1	Scenario 2	Scenario 3	Scenario 4
Construction Time (years)			After 50 yrs (% of baseline)		103	99	103	99
Direct Wetland Impacts (acres)			After 100 yrs (% of baseline)		110	104	110	104
Indirect Impacts (unitless)			Present Value of Life Cycle Costs (\$ Millions)					
Spatial Integrity (unitless)			Coastal Component		15,657	15,689	15,657	15,689
Non-Federal Share of Present Value of Life Cycle Costs	Scenario	(\$ Millions)	Nonstructural Component		0	0	0	0
	1 / 2	12,464	Structural Component		18,294	18,319	18,294	18,319
	3 / 4	12,464	Total Project		33,951	34,008	33,951	34,008

2075 Residual Risk / Damages - Low Uncertainty (\$ Millions)								Planning Unit 2 Structural Plan West Bank Alt 400-year Design	
Frequency	Scenario 1		Scenario 2		Scenario 3		Scenario 4		
	No Action	With Proj							
10-year	1,583	1,805	2,834	3,062	1,512	1,692	2,129	2,316	
100-year	46,652	6,097	49,467	8,094	37,218	4,897	39,133	6,410	
400-year	51,671	9,802	53,124	10,877	40,614	7,207	41,659	7,879	
1,000-year	53,208	15,047	54,188	15,934	41,777	11,652	42,556	12,186	
2,000-year	53,965	33,812	54,716	34,531	42,386	28,473	42,963	28,914	

Note: Present Value costs and Annual Equivalent numbers are calculated for the period from 2010 to 2075 at common base year 2025 using a 4.78% Federal discount rate. All dollar metrics are based on 2007 price levels.





Alternative: PU2-WBI-400-1
Water Surface Elevations (feet - NAVD88 2004.65)

Planning Sub Unit	2010 (Base) Conditions						2060 (Future) Conditions					
	100-yr Event		400-year Event		1,000-yr Event		100-yr Event		400-year Event		1,000-yr Event	
	Without Project	With Project	Without Project	With Project	Without Project	With Project	Without Project	With Project	Without Project	With Project	Without Project	With Project
Algiers	-3.8	-3.9	10.7	-3.9	12.1	-3.9	12.9	-3.9	16.3	-3.9	17.9	-3.9
Diamond	13.0	13.0	16.7	16.7	18.9	18.9	16.2	16.2	26.3	19.9	30.2	22.1
English_Turn	-1.7	-1.7	10.7	-1.7	12.1	-1.7	12.9	-1.7	16.3	-1.7	17.9	-1.7
Gainard_Woods	13.5	13.5	17.3	17.3	19.7	19.7	16.7	16.7	20.5	20.5	22.9	22.9
Grand_Liard	15.0	15.0	16.7	16.7	18.9	18.9	18.2	18.2	26.3	19.9	30.2	22.1
Jean_Lafitte	8.4	8.4	11.9	11.9	14.0	14.0	13.0	11.6	16.9	15.1	19.3	17.2
JEFF_7a	7.7	7.7	10.8	10.8	13.1	13.1	12.8	10.9	17.1	14.0	18.2	16.3
JEFF_7c	8.4	8.4	11.9	11.9	14.0	14.0	22.7	11.6	27.6	15.1	30.0	17.2
LAFO_11b	11.6	11.6	14.5	14.5	16.1	16.1	14.4	14.8	16.9	17.7	18.4	19.3
LAFO_3a	3.9	3.9	5.1	5.1	6.0	6.0	7.0	7.1	8.2	8.3	9.0	9.2
LAFO_5d	5.8	5.8	8.7	8.7	10.9	10.9	10.6	9.0	13.4	11.9	15.1	14.1
LAFO_7c	7.1	7.1	9.1	9.1	10.3	10.3	12.0	10.3	14.2	12.3	15.4	13.5
LAFO_7e	8.1	8.1	11.3	11.3	13.4	13.4	12.5	11.3	15.3	14.5	17.3	16.6
Larose	-2.5	-2.9	9.0	-2.3	12.0	-0.5	15.0	-2.9	15.0	-2.3	15.0	-0.5
Luling	6.1	6.1	8.6	8.6	10.2	10.2	11.8	11.2	15.5	13.7	17.4	15.3
Myrtle_Grove	10.3	10.3	13.8	13.8	15.7	15.7	13.5	13.5	17.3	17.0	18.6	18.9
Ollie	8.0	8.0	13.2	13.2	15.3	15.3	11.2	11.2	19.2	16.4	22.1	18.5
PLAQ_11a	12.5	12.5	16.7	16.7	18.9	18.9	15.9	15.7	20.5	19.9	22.9	22.1
Plaq_Belle_Chase	-2.6	-2.8	11.0	-2.6	11.3	-1.8	11.6	-2.8	14.3	-2.6	15.8	-1.8
St_Charles_dav_pond	1.6	1.5	4.8	1.7	11.0	2.7	11.0	1.5	13.2	1.7	14.5	2.7
St_Charles_Sunset	7.0	7.0	9.4	9.4	10.7	10.7	10.0	10.2	12.3	12.6	13.7	13.9
Sunrise	15.0	15.0	16.7	16.7	18.9	18.9	18.2	18.2	26.3	19.9	30.2	22.1
West_jeff_ames	-1.5	-1.5	11.0	-0.3	11.3	5.0	11.6	-1.5	14.3	-0.3	15.8	5.0
West_jeff_EoH	-3.5	-3.7	11.0	-3.6	11.3	-3.4	11.6	-3.7	14.3	-3.6	15.8	-3.4
West_jeff_harvey	-2.4	-2.5	11.0	-2.2	11.3	1.8	11.6	-2.5	14.3	-2.2	15.8	1.8
West_jeff_segnette	-3.9	-4.0	11.0	-3.8	11.3	-1.0	11.6	-4.0	14.3	-3.8	15.8	-1.0
Evaluation Parameters	Confidence Level:			90%			Levee Design:			No Friction Waves		
	Future Relative Sea Level Rise:			3.2 feet			Levee Overtopping:			No Friction Waves		

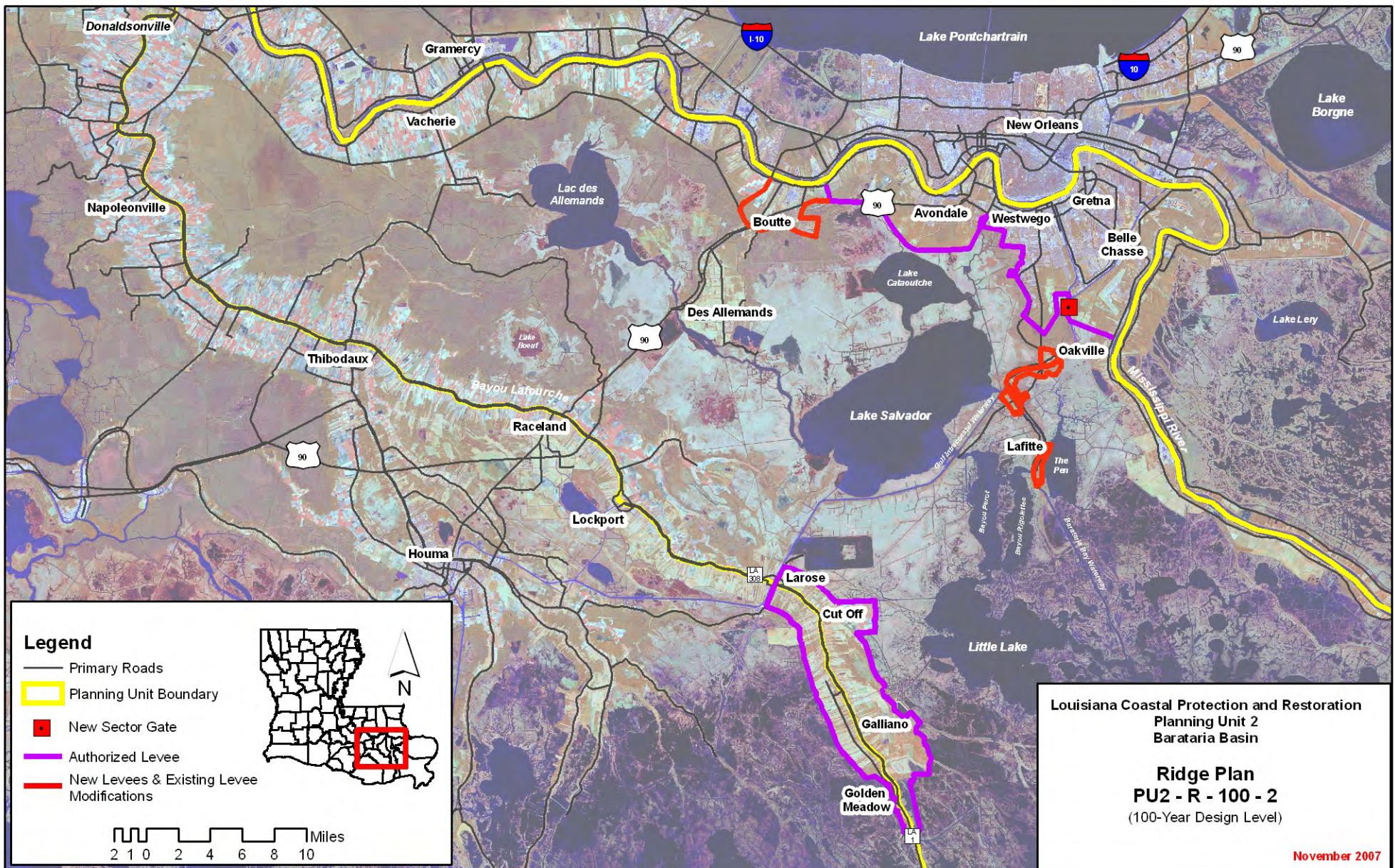
Planning Unit:	2	Alt. No.:	PU2-R-100-2	Category:	Coastal Restoration + Structural Measures
Alternative Description:	Sustain coastal landscape through restoration. Construct new sector gate on Bayou Barataria to reduce risk on the West Bank. Extend West Bank and Vicinity levees to Boutte and construct/raise Lafitte ring levees to 100-year level of risk reduction.				
Coastal Component:	R2 (pulsed diversions)		Nonstructural Component:		None
Structural Component:	See alternative description above.				

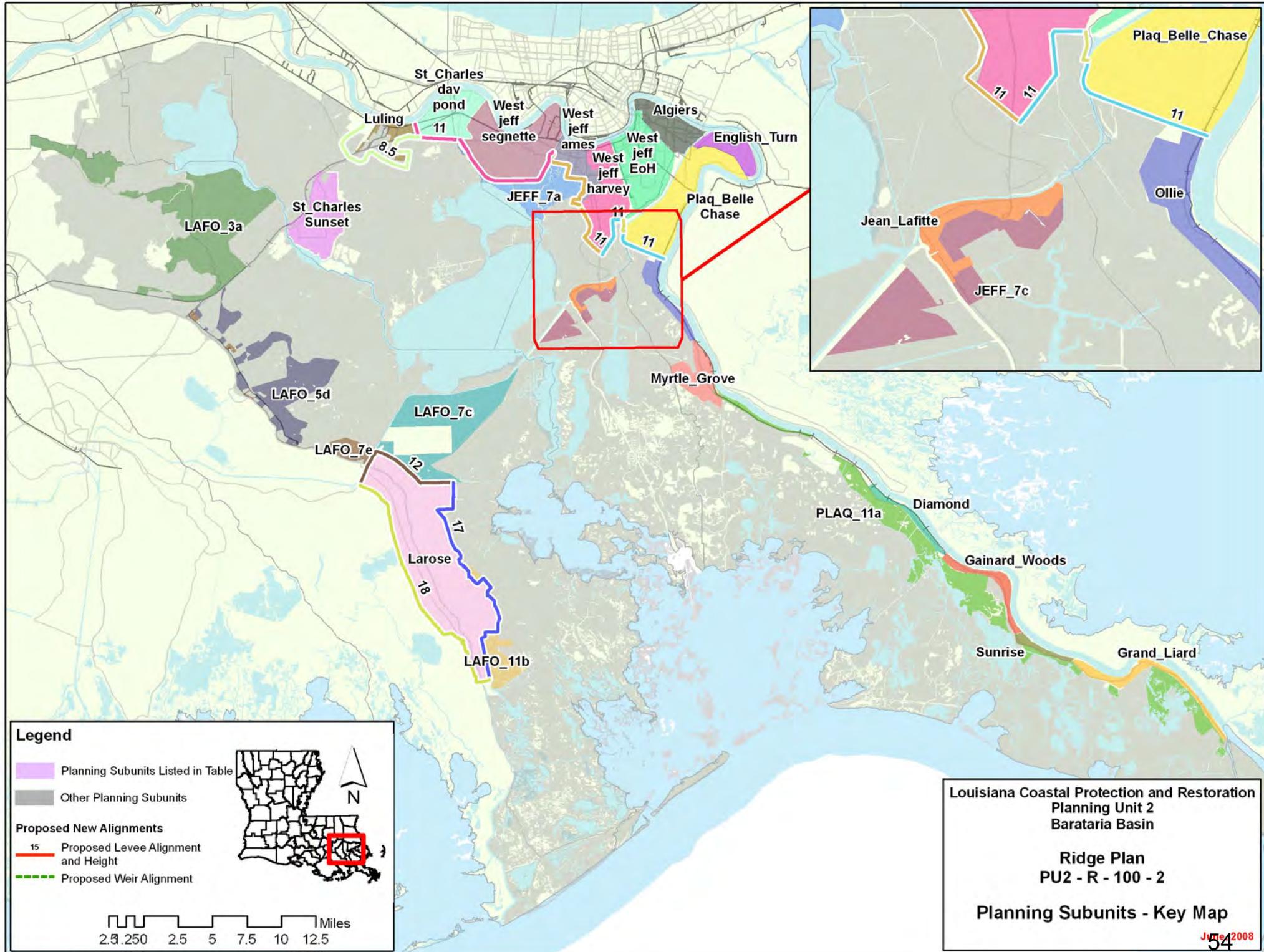
Scenario	Future Conditions (Relative Sea Level Rise (RSLR) and Redevelopment Assumptions)	Uncertainty	Results by Scenario with Uncertainty Bands								
			Life Cycle Cost	Population Impacted	Residual Damages	Gross Regional Output Impacted	Employment Impacted	People's Earned Income Impacted	Archeo. Sites Protected	Historic Properties Protected	Historic Districts Protected
			Ann. Equiv. \$ Millions	Ann. Equiv. #	Ann. Equiv. \$ Millions	Ann. Equiv. \$ Millions	Ann. Equiv. #	Ann. Equiv. \$ Millions	# Sites	# Properties	# Districts
1	Low RSLR High Employment Dispersed Population	High	1,194	14,816	357	610	1,313	92	449	17	8
		Mid		18,681	744	1,178	2,977	209	266	15	7
		Low		20,398	1,017	1,585	4,056	272	160	14	6
2	High RSLR High Employment Dispersed Population	High	1,198	15,543	484	856	1,941	153	449	15	7
		Mid		18,975	809	1,234	3,075	218	266	14	7
		Low		20,576	1,083	1,644	4,180	286	160	13	6
3	Low RSLR Business-as-Usual Compact Population	High	1,194	10,055	335	558	1,214	82	449	17	8
		Mid		13,558	687	964	2,595	170	266	15	7
		Low		15,244	936	1,310	3,510	221	160	14	6
4	High RSLR Business-as-Usual Compact Population	High	1,198	10,584	429	731	1,619	121	449	15	7
		Mid		13,716	732	1,012	2,671	177	266	14	7
		Low		15,321	975	1,359	3,565	227	160	13	6

Other Results			Wetlands Created/Protected		Scenario 1	Scenario 2	Scenario 3	Scenario 4
Construction Time (years)			After 50 yrs (% of baseline)		103	99	103	99
Direct Wetland Impacts (acres)			After 100 yrs (% of baseline)		110	104	110	104
Indirect Impacts (unitless)			Present Value of Life Cycle Costs (\$ Millions)					
Spatial Integrity (unitless)			Coastal Component		15,657	15,689	15,657	15,689
Non-Federal Share of Present Value of Life Cycle Costs	Scenario	(\$ Millions)	Nonstructural Component		0	0	0	0
	1 / 2	8,306	8,331	Structural Component		7,730	7,770	7,730
	3 / 4	8,306	8,331	Total Project		23,386	23,459	23,386

2075 Residual Risk / Damages - Low Uncertainty (\$ Millions)								Planning Unit 2 Structural Plan Ridge Alt 100-year Design	
Frequency	Scenario 1		Scenario 2		Scenario 3		Scenario 4		
	No Action	With Proj							
10-year	1,583	1,155	2,834	2,154	1,512	1,039	2,129	1,404	
100-year	46,652	4,924	49,467	6,496	37,218	3,728	39,133	4,848	
400-year	51,671	39,518	53,124	40,414	40,614	33,221	41,659	33,699	
1,000-year	53,208	43,310	54,188	44,076	41,777	35,876	42,556	36,271	
2,000-year	53,965	44,520	54,716	45,136	42,386	36,663	42,963	36,985	

Note: Present Value costs and Annual Equivalent numbers are calculated for the period from 2010 to 2075 at common base year 2025 using a 4.78% Federal discount rate. All dollar metrics are based on 2007 price levels.





Alternative: PU2-R-100-2
Water Surface Elevations (feet - NAVD88 2004.65)

Planning Sub Unit	2010 (Base) Conditions						2060 (Future) Conditions					
	100-yr Event		400-year Event		1,000-yr Event		100-yr Event		400-year Event		1,000-yr Event	
	Without Project	With Project	Without Project	With Project	Without Project	With Project	Without Project	With Project	Without Project	With Project	Without Project	With Project
Algiers	-3.8	-3.9	10.7	-3.9	12.1	-3.9	12.9	-3.9	16.3	-3.9	17.9	-3.9
Diamond	13.0	13.0	16.7	16.7	18.9	18.9	16.2	16.2	26.3	19.9	30.2	22.1
English_Turn	-1.7	-1.7	10.7	-1.7	12.1	-1.7	12.9	-1.7	16.3	-1.7	17.9	-1.7
Gainard_Woods	13.5	13.5	17.3	17.3	19.7	19.7	16.7	16.7	20.5	20.5	22.9	22.9
Grand_Liard	15.0	15.0	16.7	16.7	18.9	18.9	18.2	18.2	26.3	19.9	30.2	22.1
Jean_Lafitte	8.4	8.4	11.9	11.9	14.0	14.0	13.0	11.6	16.9	15.1	19.3	17.2
JEFF_7a	7.7	7.7	10.8	10.8	13.1	13.1	12.8	10.9	17.1	14.0	18.2	16.3
JEFF_7c	8.4	8.4	11.9	11.9	14.0	14.0	22.7	11.6	27.6	15.1	30.0	17.2
LAFO_11b	11.6	11.6	14.5	14.5	16.1	16.1	14.4	14.8	16.9	17.7	18.4	19.3
LAFO_3a	3.9	3.9	5.1	5.1	6.0	6.0	7.0	7.1	8.2	8.3	9.0	9.2
LAFO_5d	5.8	5.8	8.7	8.7	10.9	10.9	10.6	9.0	13.4	11.9	15.1	14.1
LAFO_7c	7.1	7.1	9.1	9.1	10.3	10.3	12.0	10.3	14.2	12.3	15.4	13.5
LAFO_7e	8.1	8.1	11.3	11.3	13.4	13.4	12.5	11.3	15.3	14.5	17.3	16.6
Larose	-2.5	-2.5	9.0	9.0	12.0	12.0	15.0	-2.5	15.0	9.0	15.0	12.0
Luling	6.1	2.2	8.6	8.1	10.2	8.5	11.8	2.2	15.5	8.1	17.4	8.5
Myrtle_Grove	10.3	10.3	13.8	13.8	15.7	15.7	13.5	13.5	17.3	17.0	18.6	18.9
Ollie	8.0	8.0	13.2	13.2	15.3	15.3	11.2	11.2	19.2	16.4	22.1	18.5
PLAQ_11a	12.5	12.5	16.7	16.7	18.9	18.9	15.9	15.7	20.5	19.9	22.9	22.1
Plaq_Belle_Chase	-2.6	-2.7	11.0	5.1	11.3	11.3	11.6	-2.7	14.3	5.1	15.8	11.3
St_Charles_dav_pond	1.6	1.6	4.8	4.8	11.0	11.0	11.0	1.6	13.2	4.8	14.5	11.0
St_Charles_Sunset	7.0	7.0	9.4	9.4	10.7	10.7	10.0	10.2	12.3	12.6	13.7	13.9
Sunrise	15.0	15.0	16.7	16.7	18.9	18.9	18.2	18.2	26.3	19.9	30.2	22.1
West_jeff_ames	-1.5	-1.5	11.0	11.0	11.3	11.3	11.6	-1.5	14.3	11.0	15.8	11.3
West_jeff_EoH	-3.5	-3.6	11.0	11.0	11.3	11.3	11.6	-3.6	14.3	11.0	15.8	11.3
West_jeff_harvey	-2.4	-2.4	11.0	11.0	11.3	11.3	11.6	-2.4	14.3	11.0	15.8	11.3
West_jeff_segnette	-3.9	-3.9	11.0	11.0	11.3	11.3	11.6	-3.9	14.3	11.0	15.8	11.3
Evaluation Parameters	Confidence Level:			90%	Levee Design:	No Friction Waves				Levee Overtopping:	No Friction Waves	
	Future Relative Sea Level Rise:			3.2 feet		No Friction Waves					No Friction Waves	

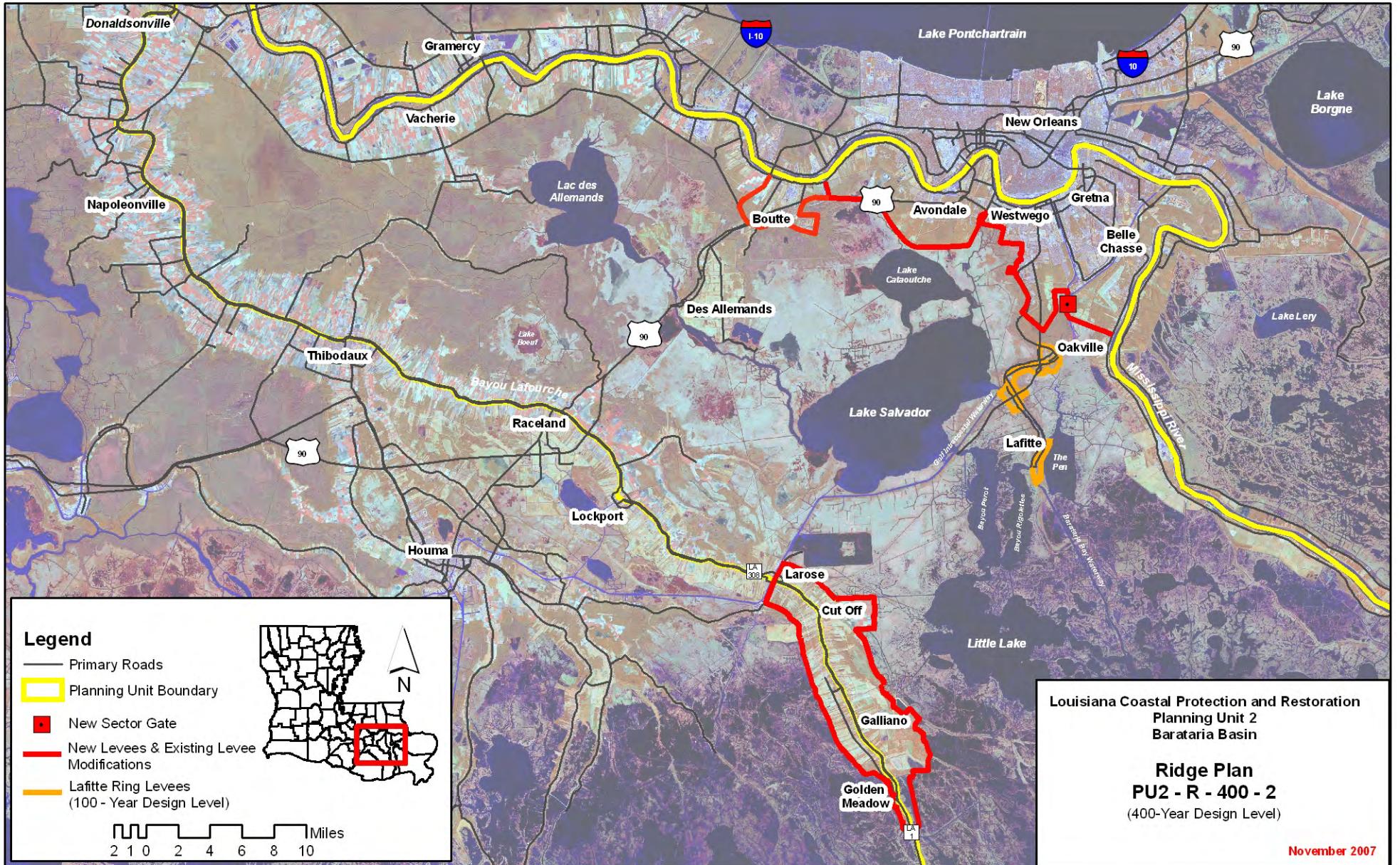
Planning Unit:	2	Alt. No.:	PU2-R-400-2	Category:	Coastal Restoration + Structural Measures
Alternative Description:	Sustain coastal landscape through restoration. Construct new sector gate on Bayou Barataria to reduce risk on the West Bank. Extend West Bank and Vicinity levees to Boutte and raise those levees as well as Larose to Golden Meadow levees to 400-year level				
Coastal Component:	R2 (pulsed diversions)		Nonstructural Component:		None
Structural Component:	See alternative description above.				

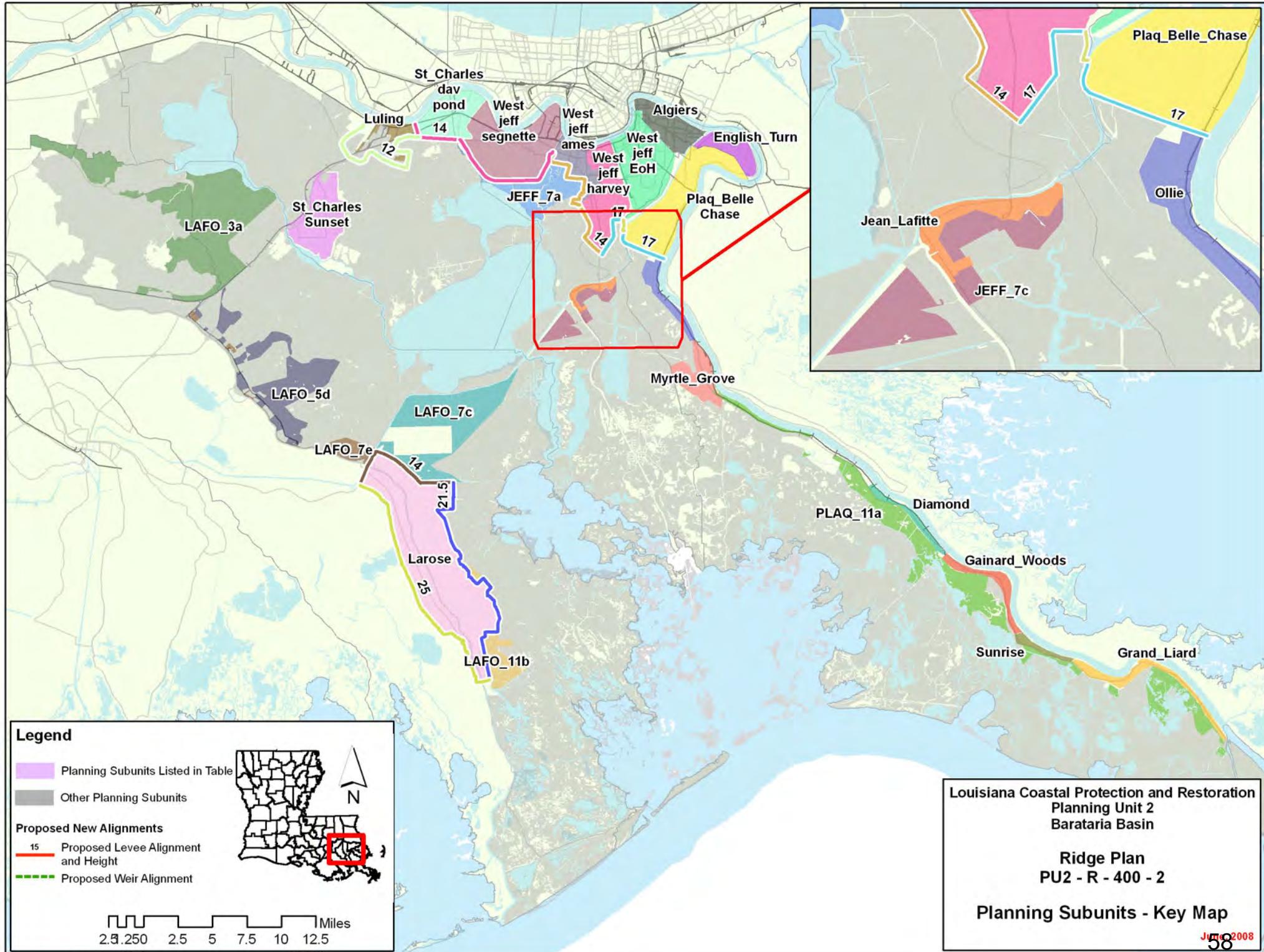
Scenario	Future Conditions (Relative Sea Level Rise (RSLR) and Redevelopment Assumptions)	Uncertainty	Results by Scenario with Uncertainty Bands								
			Life Cycle Cost	Population Impacted	Residual Damages	Gross Regional Output Impacted	Employment Impacted	People's Earned Income Impacted	Archeo. Sites Protected	Historic Properties Protected	Historic Districts Protected
			Ann. Equiv. \$ Millions	Ann. Equiv. #	Ann. Equiv. \$ Millions	Ann. Equiv. \$ Millions	Ann. Equiv. #	Ann. Equiv. \$ Millions	# Sites	# Properties	# Districts
1	Low RSLR High Employment Dispersed Population	High	2,097	14,989	370	639	1,378	99	266	26	9
		Mid		18,421	741	1,206	2,984	216	213	26	9
		Low		19,489	916	1,458	3,570	246	160	25	8
2	High RSLR High Employment Dispersed Population	High	2,104	15,857	520	923	2,120	170	266	26	9
		Mid		18,733	810	1,266	3,087	225	213	25	9
		Low		19,668	983	1,521	3,698	260	160	23	8
3	Low RSLR Business-as-Usual Compact Population	High	2,097	10,200	344	583	1,263	87	266	26	9
		Mid		13,242	677	985	2,559	173	213	26	9
		Low		14,331	831	1,195	3,034	196	160	25	8
4	High RSLR Business-as-Usual Compact Population	High	2,104	10,837	458	785	1,749	134	266	26	9
		Mid		13,411	726	1,038	2,642	181	213	25	9
		Low		14,409	871	1,249	3,095	203	160	23	8

Other Results			Wetlands Created/Protected		Scenario 1	Scenario 2	Scenario 3	Scenario 4
Construction Time (years)			After 50 yrs (% of baseline)		103	99	103	99
Direct Wetland Impacts (acres)			After 100 yrs (% of baseline)		110	104	110	104
Indirect Impacts (unitless)			Present Value of Life Cycle Costs (\$ Millions)					
Spatial Integrity (unitless)			Coastal Component		15,657	15,689	15,657	15,689
Non-Federal Share of Present Value of Life Cycle Costs	Scenario	(\$ Millions)	Nonstructural Component		0	0	0	0
	1 / 2	14,963	15,011	Structural Component		25,409	25,515	25,409
	3 / 4	14,963	15,011	Total Project		41,066	41,204	41,066

2075 Residual Risk / Damages - Low Uncertainty (\$ Millions)								Planning Unit 2 Structural Plan Ridge Alt 400-year Design
Frequency	Scenario 1		Scenario 2		Scenario 3		Scenario 4	
	No Action	With Proj						
	10-year	1,583	1,155	2,834	2,154	1,512	1,039	2,129
100-year	46,652	4,916	49,467	6,488	37,218	3,720	39,133	4,839
400-year	51,671	7,969	53,124	8,865	40,614	5,405	41,659	5,883
1,000-year	53,208	13,049	54,188	13,815	41,777	9,667	42,556	10,062
2,000-year	53,965	32,054	54,716	32,670	42,386	26,735	42,963	27,057

Note: Present Value costs and Annual Equivalent numbers are calculated for the period from 2010 to 2075 at common base year 2025 using a 4.7%/8% Federal discount rate. All dollar metrics are based on 2007 price levels.





Alternative: PU2-R-400-2
Water Surface Elevations (feet - NAVD88 2004.65)

Planning Sub Unit	2010 (Base) Conditions						2060 (Future) Conditions					
	100-yr Event		400-year Event		1,000-yr Event		100-yr Event		400-year Event		1,000-yr Event	
	Without Project	With Project	Without Project	With Project	Without Project	With Project	Without Project	With Project	Without Project	With Project	Without Project	With Project
Algiers	-3.8	-3.9	10.7	-3.9	12.1	-3.9	12.9	-3.9	16.3	-3.9	17.9	-3.9
Diamond	13.0	13.0	16.7	16.7	18.9	18.9	16.2	16.2	26.3	19.9	30.2	22.1
English_Turn	-1.7	-1.7	10.7	-1.7	12.1	-1.7	12.9	-1.7	16.3	-1.7	17.9	-1.7
Gainard_Woods	13.5	13.5	17.3	17.3	19.7	19.7	16.7	16.7	20.5	20.5	22.9	22.9
Grand_Liard	15.0	15.0	16.7	16.7	18.9	18.9	18.2	18.2	26.3	19.9	30.2	22.1
Jean_Lafitte	8.4	8.4	11.9	11.9	14.0	14.0	13.0	11.6	16.9	15.1	19.3	17.2
JEFF_7a	7.7	7.7	10.8	10.8	13.1	13.1	12.8	10.9	17.1	14.0	18.2	16.3
JEFF_7c	8.4	8.4	11.9	11.9	14.0	14.0	22.7	11.6	27.6	15.1	30.0	17.2
LAFO_11b	11.6	11.6	14.5	14.5	16.1	16.1	14.4	14.8	16.9	17.7	18.4	19.3
LAFO_3a	3.9	3.9	5.1	5.1	6.0	6.0	7.0	7.1	8.2	8.3	9.0	9.2
LAFO_5d	5.8	5.8	8.7	8.7	10.9	10.9	10.6	9.0	13.4	11.9	15.1	14.1
LAFO_7c	7.1	7.1	9.1	9.1	10.3	10.3	12.0	10.3	14.2	12.3	15.4	13.5
LAFO_7e	8.1	8.1	11.3	11.3	13.4	13.4	12.5	11.3	15.3	14.5	17.3	16.6
Larose	-2.5	-2.9	9.0	-2.3	12.0	-0.5	15.0	-2.9	15.0	-2.3	15.0	-0.5
Luling	6.1	1.5	8.6	2.1	10.2	3.6	11.8	1.5	15.5	2.1	17.4	3.6
Myrtle_Grove	10.3	10.3	13.8	13.8	15.7	15.7	13.5	13.5	17.3	17.0	18.6	18.9
Ollie	8.0	8.0	13.2	13.2	15.3	15.3	11.2	11.2	19.2	16.4	22.1	18.5
PLAQ_11a	12.5	12.5	16.7	16.7	18.9	18.9	15.9	15.7	20.5	19.9	22.9	22.1
Plaq_Belle_Chase	-2.6	-2.8	11.0	-2.6	11.3	-1.8	11.6	-2.8	14.3	-2.6	15.8	-1.8
St_Charles_dav_pond	1.6	1.5	4.8	1.7	11.0	2.7	11.0	1.5	13.2	1.7	14.5	2.7
St_Charles_Sunset	7.0	7.0	9.4	9.4	10.7	10.7	10.0	10.2	12.3	12.6	13.7	13.9
Sunrise	15.0	15.0	16.7	16.7	18.9	18.9	18.2	18.2	26.3	19.9	30.2	22.1
West_jeff_ames	-1.5	-1.5	11.0	-0.3	11.3	5.0	11.6	-1.5	14.3	-0.3	15.8	5.0
West_jeff_EoH	-3.5	-3.7	11.0	-3.6	11.3	-3.4	11.6	-3.7	14.3	-3.6	15.8	-3.4

West_jeff_harvey	-2.4	-2.5	11.0	-2.2	11.3	1.8	11.6	-2.5	14.3	-2.2	15.8	1.8
West_jeff_segnette	-3.9	-4.0	11.0	-3.8	11.3	-1.0	11.6	-4.0	14.3	-3.8	15.8	-1.0
Evaluation Parameters	Confidence Level:			90%		Levee Design:			No Friction Waves			
	Future Sea Level Rise:			3.2 feet		Levee Overtopping:			No Friction Waves			

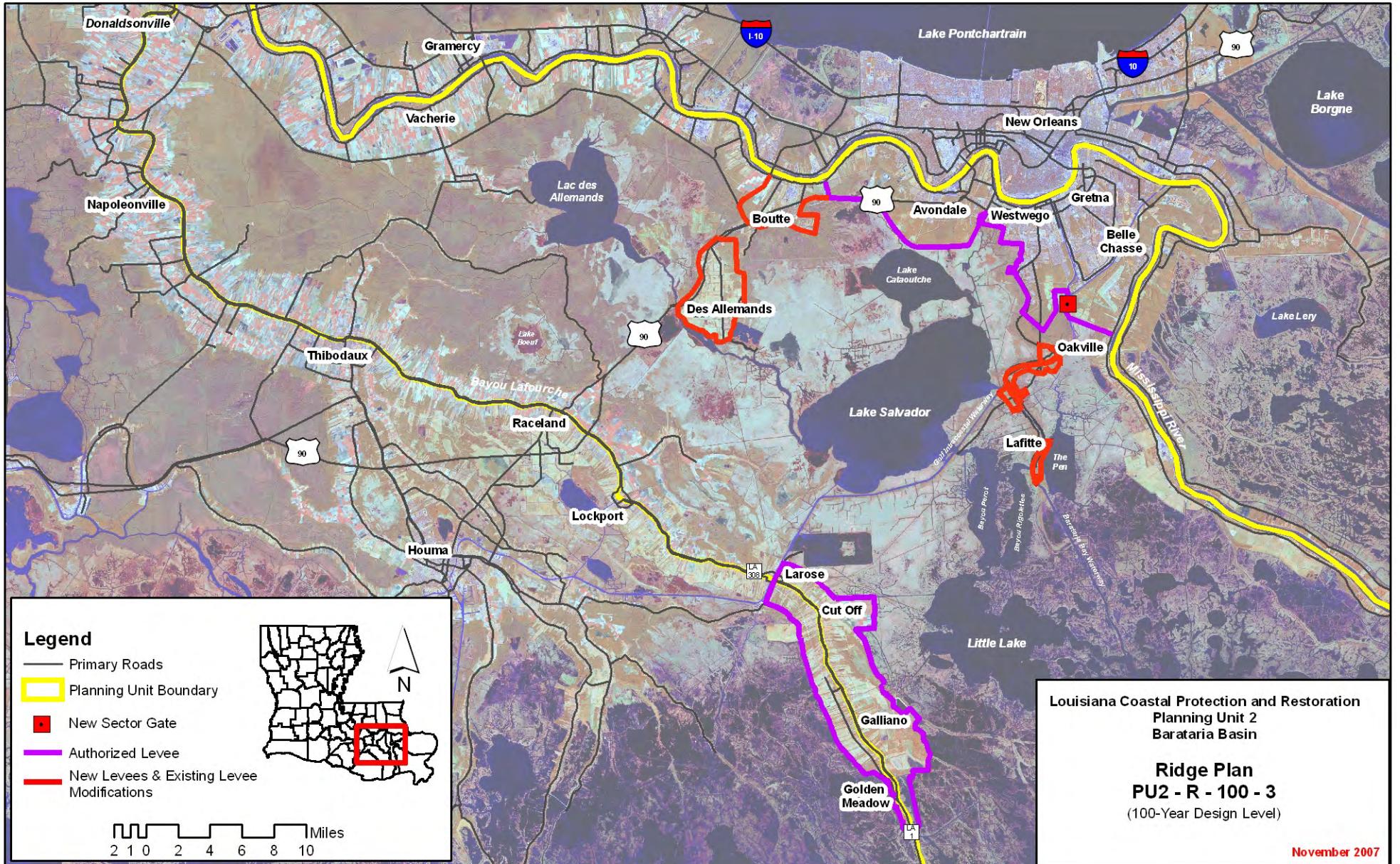
Planning Unit:	2	Alt. No.:	PU2-R-100-3	Category:	Coastal Restoration + Structural Measures
Alternative Description:	Sustain coastal landscape through restoration. Construct new sector gate on Bayou Barataria to reduce risk on the West Bank. Extend West Bank and Vicinity levees to Boutte and construct/raise Lafitte and Des Allemands ring levees to 100-year level of risk				
Coastal Component:	R2 (pulsed diversions)		Nonstructural Component:		None
Structural Component:	See alternative description above.				

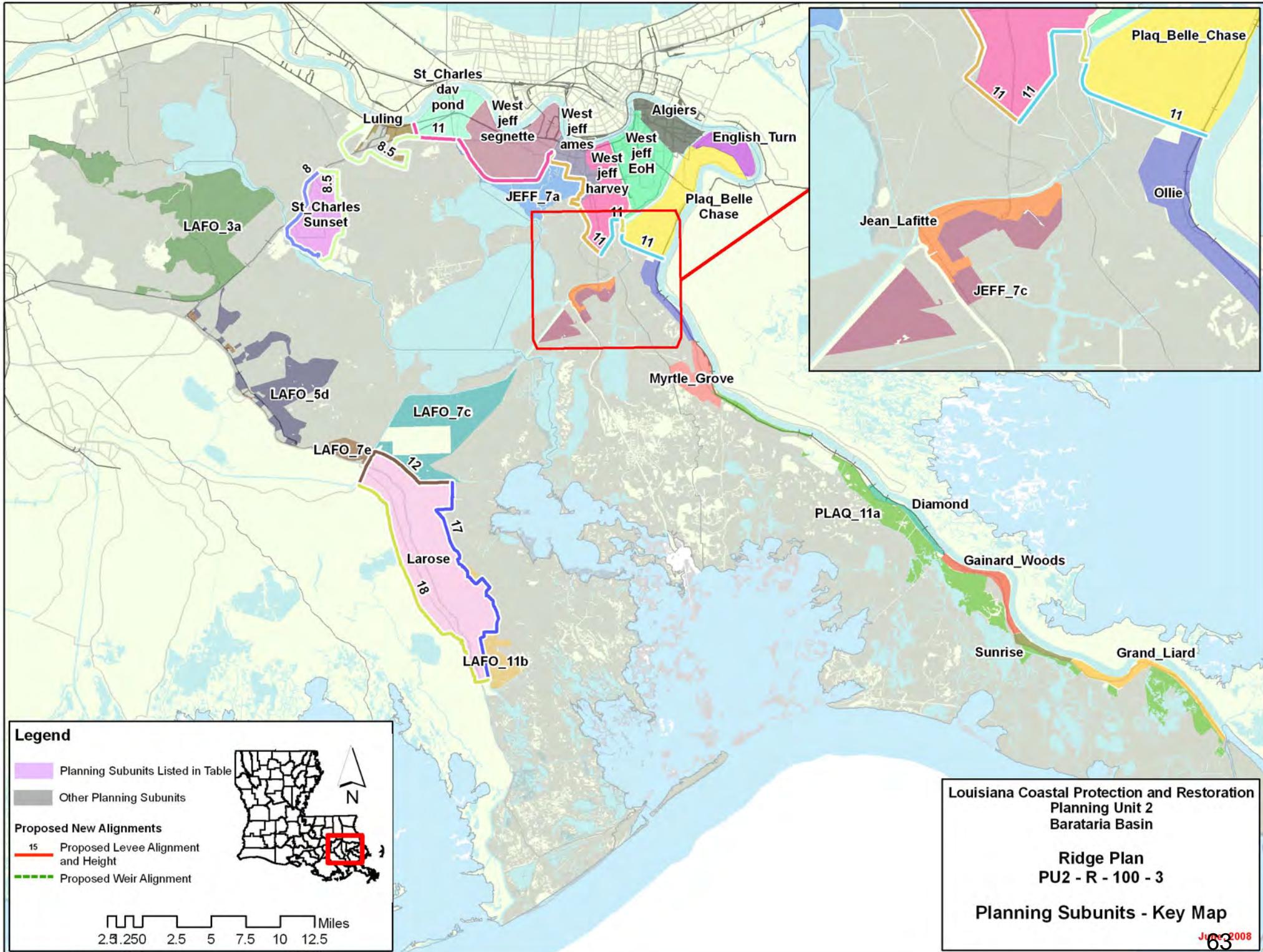
Scenario	Future Conditions (Relative Sea Level Rise (RSLR) and Redevelopment Assumptions)	Uncertainty	Results by Scenario with Uncertainty Bands								
			Life Cycle Cost	Population Impacted	Residual Damages	Gross Regional Output Impacted	Employment Impacted	People's Earned Income Impacted	Archeo. Sites Protected	Historic Properties Protected	Historic Districts Protected
			Ann. Equiv. \$ Millions	Ann. Equiv. #	Ann. Equiv. \$ Millions	Ann. Equiv. \$ Millions	Ann. Equiv. #	Ann. Equiv. \$ Millions	# Sites	# Properties	# Districts
1	Low RSLR High Employment Dispersed Population	High	1,318	13,925	341	591	1,260	89	449	17	7
		Mid		17,790	722	1,145	2,883	202	266	15	7
		Low		19,537	993	1,554	3,967	266	160	14	6
2	High RSLR High Employment Dispersed Population	High	1,322	14,652	463	826	1,860	147	449	15	7
		Mid		18,084	783	1,201	2,981	211	266	14	7
		Low		19,716	1,054	1,612	4,092	279	160	13	6
3	Low RSLR Business-as-Usual Compact Population	High	1,318	9,462	319	539	1,161	79	449	17	7
		Mid		12,955	668	938	2,525	166	266	15	7
		Low		14,663	914	1,285	3,442	217	160	14	6
4	High RSLR Business-as-Usual Compact Population	High	1,322	9,992	410	708	1,562	118	449	15	7
		Mid		13,113	709	986	2,601	173	266	14	7
		Low		14,740	949	1,333	3,497	223	160	13	6

Other Results			Wetlands Created/Protected		Scenario 1	Scenario 2	Scenario 3	Scenario 4	
Construction Time (years)			After 50 yrs (% of baseline)		103	99	103	99	
Direct Wetland Impacts (acres)			After 100 yrs (% of baseline)		110	104	110	104	
Indirect Impacts (unitless)			Present Value of Life Cycle Costs (\$ Millions)						
Spatial Integrity (unitless)			Coastal Component		15,657	15,689	15,657	15,689	
Non-Federal Share of Present Value of Life Cycle Costs	Scenario	(\$ Millions)	Nonstructural Component		0	0	0	0	
	1 / 2	9,190	9,220	Structural Component		10,147	10,201	10,147	10,201
	3 / 4	9,190	9,220	Total Project		25,803	25,890	25,803	25,890

2075 Residual Risk / Damages - Low Uncertainty (\$ Millions)								Planning Unit 2 Structural Plan Ridge Alt 100-year Design	
Frequency	Scenario 1		Scenario 2		Scenario 3		Scenario 4		
	No Action	With Proj							
	1,583	1,012	2,834	1,931	1,512	892	2,129	1,146	
10-year	46,652	4,440	49,467	5,799	37,218	3,382	39,133	4,356	
100-year	51,671	38,985	53,124	39,790	40,614	32,964	41,659	33,401	
400-year	53,208	42,957	54,188	43,656	41,777	35,733	42,556	36,100	
1,000-year	53,965	44,131	54,716	44,688	42,386	36,509	42,963	36,809	
2,000-year									

Note: Present Value costs and Annual Equivalent numbers are calculated for the period from 2010 to 2075 at common base year 2025 using a 4.78% Federal discount rate. All dollar metrics are based on 2007 price levels.





Alternative: PU2-R-100-3
Water Surface Elevations (feet - NAVD88 2004.65)

Planning Sub Unit	2010 (Base) Conditions						2060 (Future) Conditions					
	100-yr Event		400-year Event		1,000-yr Event		100-yr Event		400-year Event		1,000-yr Event	
	Without Project	With Project	Without Project	With Project	Without Project	With Project	Without Project	With Project	Without Project	With Project	Without Project	With Project
Algiers	-3.8	-3.9	10.7	-3.9	12.1	-3.9	12.9	-3.9	16.3	-3.9	17.9	-3.9
Diamond	13.0	13.0	16.7	16.7	18.9	18.9	16.2	16.2	26.3	19.9	30.2	22.1
English_Turn	-1.7	-1.7	10.7	-1.7	12.1	-1.7	12.9	-1.7	16.3	-1.7	17.9	-1.7
Gainard_Woods	13.5	13.5	17.3	17.3	19.7	19.7	16.7	16.7	20.5	20.5	22.9	22.9
Grand_Liard	15.0	15.0	16.7	16.7	18.9	18.9	18.2	18.2	26.3	19.9	30.2	22.1
Jean_Lafitte	8.4	8.4	11.9	11.9	14.0	14.0	13.0	11.6	16.9	15.1	19.3	17.2
JEFF_7a	7.7	7.7	10.8	10.8	13.1	13.1	12.8	10.9	17.1	14.0	18.2	16.3
JEFF_7c	8.4	8.4	11.9	11.9	14.0	14.0	22.7	11.6	27.6	15.1	30.0	17.2
LAFO_11b	11.6	11.6	14.5	14.5	16.1	16.1	14.4	14.8	16.9	17.7	18.4	19.3
LAFO_3a	3.9	3.9	5.1	5.1	6.0	6.0	7.0	7.1	8.2	8.3	9.0	9.2
LAFO_5d	5.8	5.8	8.7	8.7	10.9	10.9	10.6	9.0	13.4	11.9	15.1	14.1
LAFO_7c	7.1	7.1	9.1	9.1	10.3	10.3	12.0	10.3	14.2	12.3	15.4	13.5
LAFO_7e	8.1	8.1	11.3	11.3	13.4	13.4	12.5	11.3	15.3	14.5	17.3	16.6
Larose	-2.5	-2.5	9.0	9.0	12.0	12.0	15.0	-2.5	15.0	9.0	15.0	12.0
Luling	6.1	2.2	8.6	8.1	10.2	8.5	11.8	2.2	15.5	8.1	17.4	8.5
Myrtle_Grove	10.3	10.3	13.8	13.8	15.7	15.7	13.5	13.5	17.3	17.0	18.6	18.9
Ollie	8.0	8.0	13.2	13.2	15.3	15.3	11.2	11.2	19.2	16.4	22.1	18.5
PLAQ_11a	12.5	12.5	16.7	16.7	18.9	18.9	15.9	15.7	20.5	19.9	22.9	22.1
Plaq_Belle_Chase	-2.6	-2.7	11.0	5.1	11.3	11.3	11.6	-2.7	14.3	5.1	15.8	11.3
St_Charles_dav_pond	1.6	1.6	4.8	4.8	11.0	11.0	11.0	1.6	13.2	4.8	14.5	11.0
St_Charles_Sunset	7.0	-4.7	9.4	5.7	10.7	8.5	10.0	-4.7	12.3	5.7	13.7	8.5
Sunrise	15.0	15.0	16.7	16.7	18.9	18.9	18.2	18.2	26.3	19.9	30.2	22.1
West_jeff_ames	-1.5	-1.5	11.0	11.0	11.3	11.3	11.6	-1.5	14.3	11.0	15.8	11.3
West_jeff_EoH	-3.5	-3.6	11.0	11.0	11.3	11.3	11.6	-3.6	14.3	11.0	15.8	11.3
West_jeff_harvey	-2.4	-2.4	11.0	11.0	11.3	11.3	11.6	-2.4	14.3	11.0	15.8	11.3
West_jeff_segnette	-3.9	-3.9	11.0	11.0	11.3	11.3	11.6	-3.9	14.3	11.0	15.8	11.3
Evaluation Parameters	Confidence Level:			90%			Levee Design:			No Friction Waves		
	Future Relative Sea Level Rise:			3.2 feet			Levee Overtopping:			No Friction Waves		

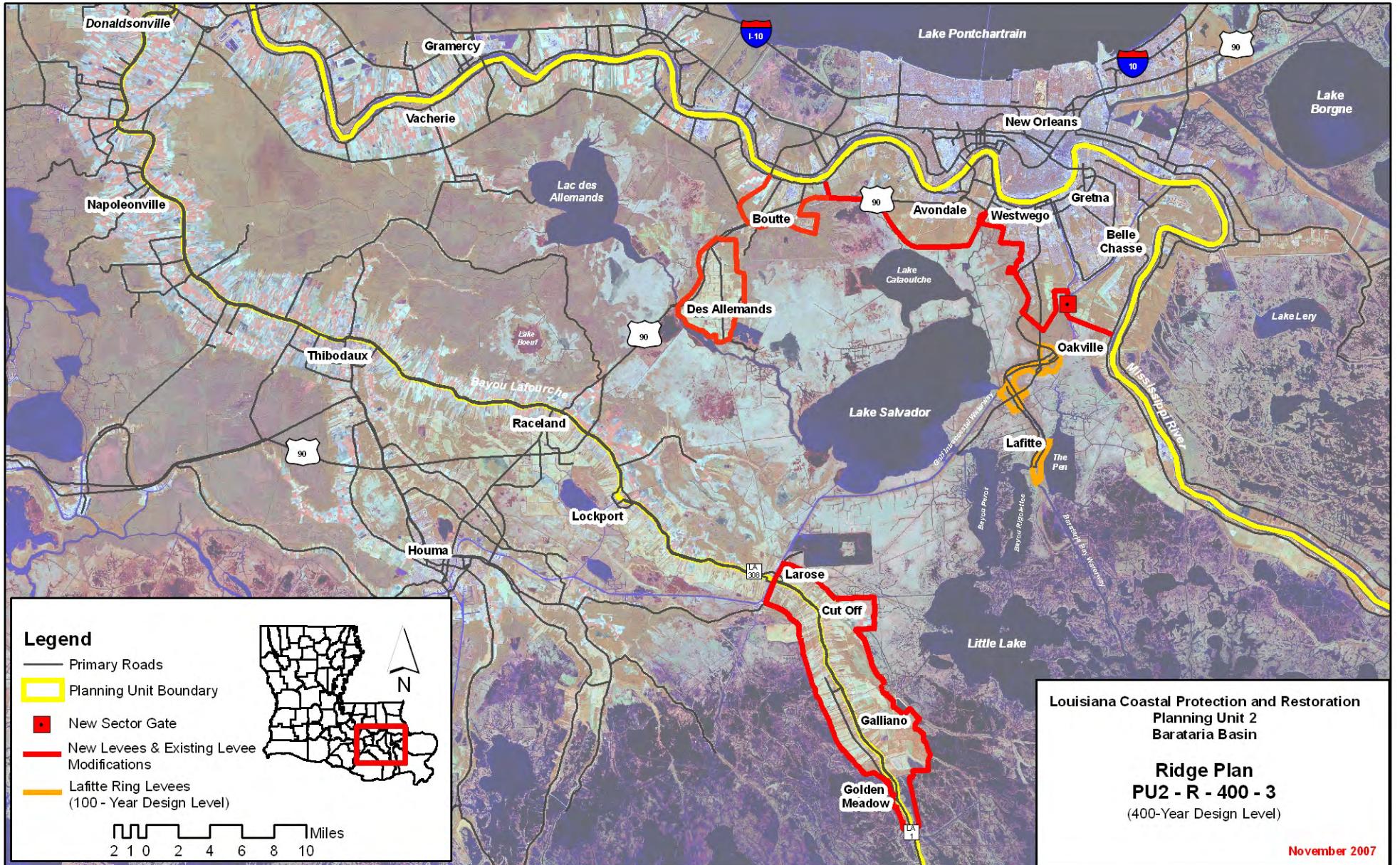
Planning Unit:	2	Alt. No.:	PU2-R-400-3	Category:	Coastal Restoration + Structural Measures
Alternative Description:	Sustain coastal landscape through restoration. Construct new sector gate on Bayou Barataria to reduce risk on the West Bank. Extend West Bank and Vicinity levees to Boutte and raise those levees as well as Des Allemands and Larose to Golden Meadow levees				
Coastal Component:	R2 (pulsed diversions)		Nonstructural Component:		None
Structural Component:	See alternative description above.				

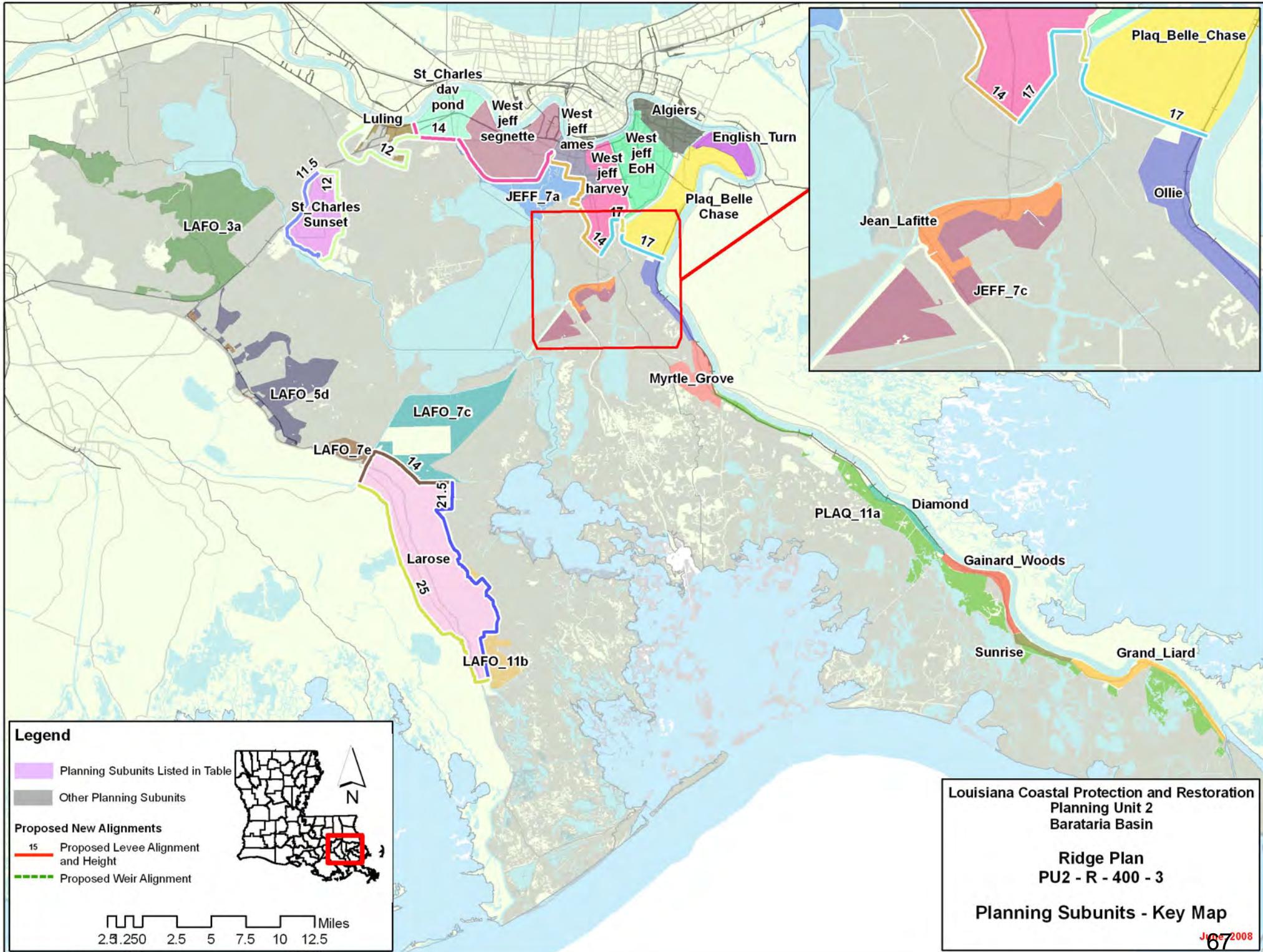
Scenario	Future Conditions (Relative Sea Level Rise (RSLR) and Redevelopment Assumptions)	Uncertainty	Results by Scenario with Uncertainty Bands								
			Life Cycle Cost	Population Impacted	Residual Damages	Gross Regional Output Impacted	Employment Impacted	People's Earned Income Impacted	Archeo. Sites Protected	Historic Properties Protected	Historic Districts Protected
			Ann. Equiv. \$ Millions	Ann. Equiv. #	Ann. Equiv. \$ Millions	Ann. Equiv. \$ Millions	Ann. Equiv. #	Ann. Equiv. \$ Millions	# Sites	# Properties	# Districts
1	Low RSLR High Employment Dispersed Population	High	2,246	13,733	332	585	1,236	88	449	26	9
		Mid		16,883	660	1,070	2,611	185	266	26	9
		Low		17,898	821	1,316	3,173	214	160	25	8
2	High RSLR High Employment Dispersed Population	High	2,253	14,459	455	821	1,837	145	449	26	9
		Mid		17,177	720	1,126	2,710	194	266	25	9
		Low		18,076	881	1,375	3,298	228	160	23	8
3	Low RSLR Business-as-Usual Compact Population	High	2,246	9,265	310	533	1,135	78	449	26	9
		Mid		12,064	607	874	2,262	150	266	26	9
		Low		13,106	748	1,078	2,715	172	160	25	8
4	High RSLR Business-as-Usual Compact Population	High	2,253	9,795	402	702	1,536	117	449	26	9
		Mid		12,222	648	922	2,338	157	266	25	9
		Low		13,182	783	1,126	2,770	179	160	23	8

Other Results			Wetlands Created/Protected		Scenario 1	Scenario 2	Scenario 3	Scenario 4
Construction Time (years)			After 50 yrs (% of baseline)		103	99	103	99
Direct Wetland Impacts (acres)			After 100 yrs (% of baseline)		110	104	110	104
Indirect Impacts (unitless)			Present Value of Life Cycle Costs (\$ Millions)					
Non-Federal Share of Present Value of Life Cycle Costs	Spatial Integrity (unitless)		Coastal Component		15,657	15,689	15,657	15,689
	Scenario	(\$ Millions)	Nonstructural Component		0	0	0	0
	1 / 2	15,965	16,019	Structural Component		28,318	28,440	28,318
3 / 4			Total Project		43,975	44,128	43,975	44,128

2075 Residual Risk / Damages - Low Uncertainty (\$ Millions)								Planning Unit 2 Structural Plan Ridge Alt 400-year Design	
Frequency	Scenario 1		Scenario 2		Scenario 3		Scenario 4		
	No Action	With Proj							
10-year	1,583	1,012	2,834	1,931	1,512	892	2,129	1,146	
100-year	46,652	4,431	49,467	5,790	37,218	3,374	39,133	4,347	
400-year	51,671	7,165	53,124	7,970	40,614	4,850	41,659	5,287	
1,000-year	53,208	12,156	54,188	12,854	41,777	9,073	42,556	9,439	
2,000-year	53,965	31,126	54,716	31,684	42,386	26,134	42,963	26,433	

Note: Present Value costs and Annual Equivalent numbers are calculated for the period from 2010 to 2075 at common base year 2025 using a 4.7/8% Federal discount rate. All dollar metrics are based on 2007 price levels.





Alternative: PU2-R-400-3
Water Surface Elevations (feet - NAVD88 2004.65)

Planning Sub Unit	2010 (Base) Conditions						2060 (Future) Conditions					
	100-yr Event		400-year Event		1,000-yr Event		100-yr Event		400-year Event		1,000-yr Event	
	Without Project	With Project	Without Project	With Project	Without Project	With Project	Without Project	With Project	Without Project	With Project	Without Project	With Project
Algiers	-3.8	-3.9	10.7	-3.9	12.1	-3.9	12.9	-3.9	16.3	-3.9	17.9	-3.9
Diamond	13.0	13.0	16.7	16.7	18.9	18.9	16.2	16.2	26.3	19.9	30.2	22.1
English_Turn	-1.7	-1.7	10.7	-1.7	12.1	-1.7	12.9	-1.7	16.3	-1.7	17.9	-1.7
Gainard_Woods	13.5	13.5	17.3	17.3	19.7	19.7	16.7	16.7	20.5	20.5	22.9	22.9
Grand_Liard	15.0	15.0	16.7	16.7	18.9	18.9	18.2	18.2	26.3	19.9	30.2	22.1
Jean_Lafitte	8.4	8.4	11.9	11.9	14.0	14.0	13.0	11.6	16.9	15.1	19.3	17.2
JEFF_7a	7.7	7.7	10.8	10.8	13.1	13.1	12.8	10.9	17.1	14.0	18.2	16.3
JEFF_7c	8.4	8.4	11.9	11.9	14.0	14.0	22.7	11.6	27.6	15.1	30.0	17.2
LAFO_11b	11.6	11.6	14.5	14.5	16.1	16.1	14.4	14.8	16.9	17.7	18.4	19.3
LAFO_3a	3.9	3.9	5.1	5.1	6.0	6.0	7.0	7.1	8.2	8.3	9.0	9.2
LAFO_5d	5.8	5.8	8.7	8.7	10.9	10.9	10.6	9.0	13.4	11.9	15.1	14.1
LAFO_7c	7.1	7.1	9.1	9.1	10.3	10.3	12.0	10.3	14.2	12.3	15.4	13.5
LAFO_7e	8.1	8.1	11.3	11.3	13.4	13.4	12.5	11.3	15.3	14.5	17.3	16.6
Larose	-2.5	-2.9	9.0	-2.3	12.0	-0.5	15.0	-2.9	15.0	-2.3	15.0	-0.5
Luling	6.1	1.5	8.6	2.1	10.2	3.6	11.8	1.5	15.5	2.1	17.4	3.6
Myrtle_Grove	10.3	10.3	13.8	13.8	15.7	15.7	13.5	13.5	17.3	17.0	18.6	18.9
Ollie	8.0	8.0	13.2	13.2	15.3	15.3	11.2	11.2	19.2	16.4	22.1	18.5
PLAQ_11a	12.5	12.5	16.7	16.7	18.9	18.9	15.9	15.7	20.5	19.9	22.9	22.1
Plaq_Belle_Chase	-2.6	-2.8	11.0	-2.6	11.3	-1.8	11.6	-2.8	14.3	-2.6	15.8	-1.8
St_Charles_dav_pond	1.6	1.5	4.8	1.7	11.0	2.7	11.0	1.5	13.2	1.7	14.5	2.7
St_Charles_Sunset	7.0	-5.1	9.4	-4.8	10.7	-3.4	10.0	-5.1	12.3	-4.8	13.7	-3.4
Sunrise	15.0	15.0	16.7	16.7	18.9	18.9	18.2	18.2	26.3	19.9	30.2	22.1
West_jeff_ames	-1.5	-1.5	11.0	-0.3	11.3	5.0	11.6	-1.5	14.3	-0.3	15.8	5.0
West_jeff_EoH	-3.5	-3.7	11.0	-3.6	11.3	-3.4	11.6	-3.7	14.3	-3.6	15.8	-3.4
West_jeff_harvey	-2.4	-2.5	11.0	-2.2	11.3	1.8	11.6	-2.5	14.3	-2.2	15.8	1.8
West_jeff_segnette	-3.9	-4.0	11.0	-3.8	11.3	-1.0	11.6	-4.0	14.3	-3.8	15.8	-1.0
Evaluation Parameters	Confidence Level:			90%		Levee Design:			No Friction Waves			
	Future Relative Sea Level Rise:			3.2 feet		Levee Overtopping:			No Friction Waves			

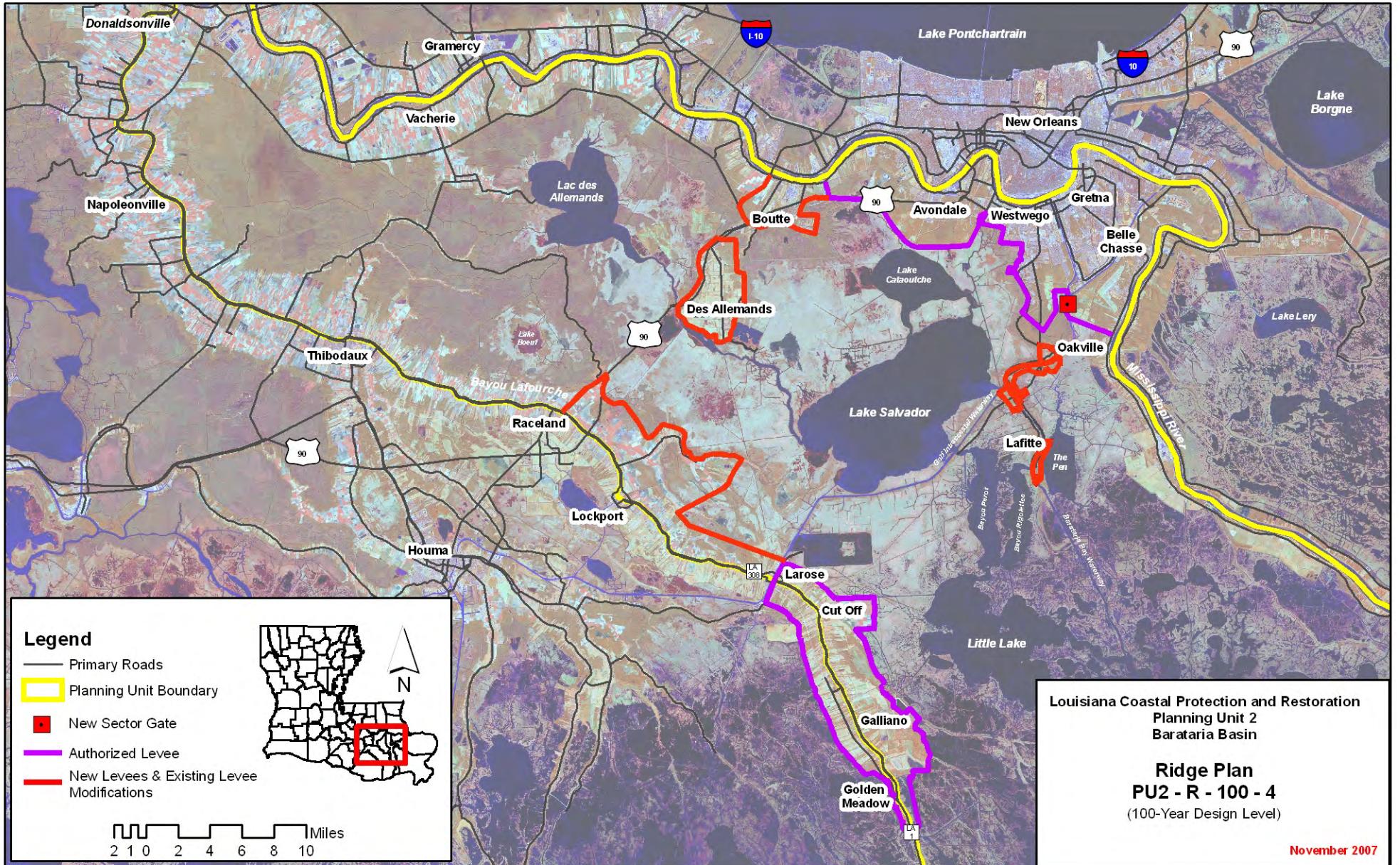
Planning Unit:	2	Alt. No.:	PU2-R-100-4	Category:	Coastal Restoration + Structural Measures
Alternative Description:	Sustain coastal landscape through restoration. Construct new sector gate on Bayou Barataria to reduce risk on the West Bank. Construct/raise Lafitte and Des Allemands ring levees to 100-year level of risk reduction and build new levees around Boutte and u				
Coastal Component:	R2 (pulsed diversions)		Nonstructural Component:	None	
Structural Component:	See alternative description above.				

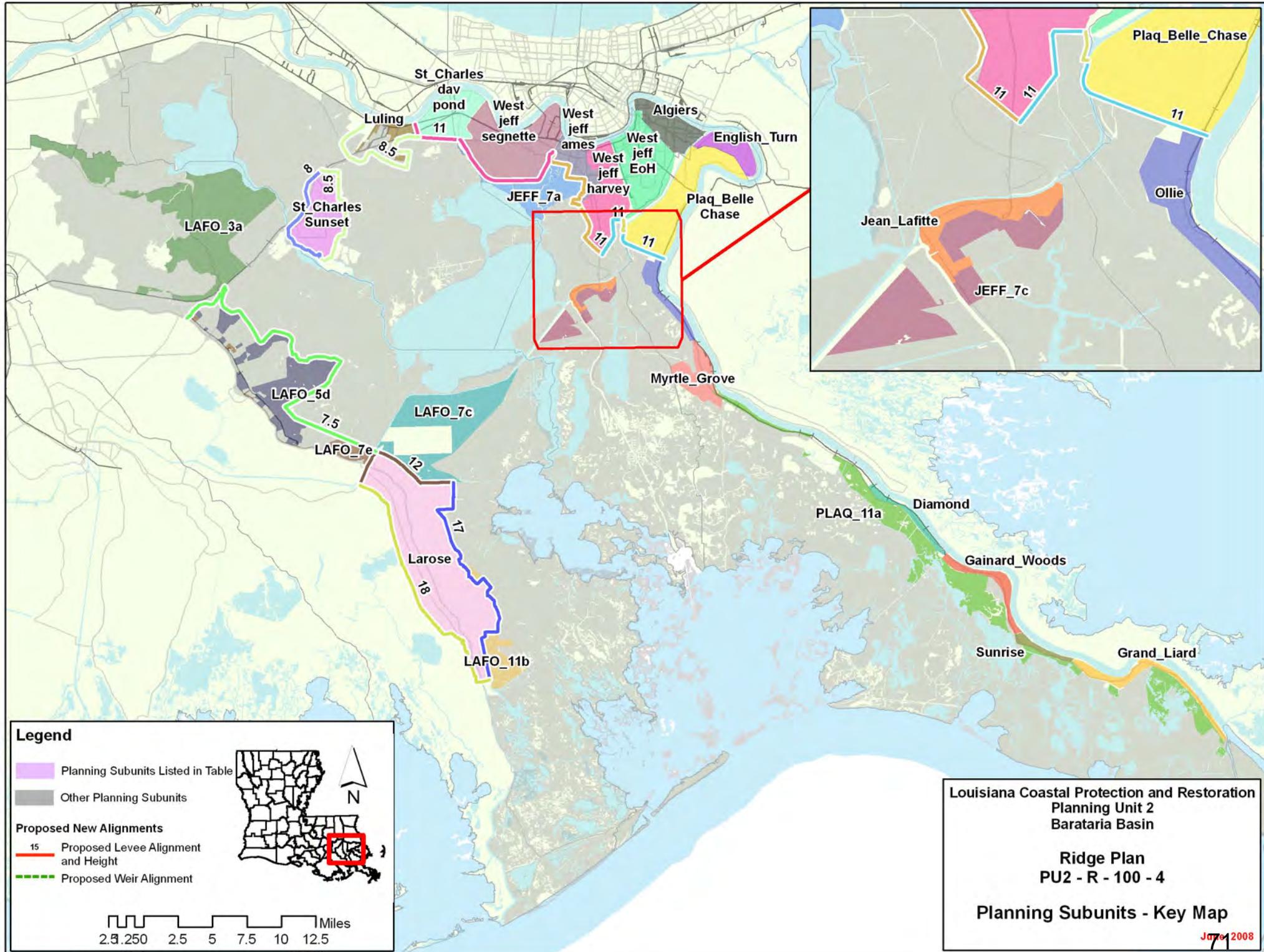
Scenario	Future Conditions (Relative Sea Level Rise (RSLR) and Redevelopment Assumptions)	Uncertainty	Results by Scenario with Uncertainty Bands								
			Life Cycle Cost	Population Impacted	Residual Damages	Gross Regional Output Impacted	Employment Impacted	People's Earned Income Impacted	Archeo. Sites Protected	Historic Properties Protected	Historic Districts Protected
			Ann. Equiv. \$ Millions	Ann. Equiv. #	Ann. Equiv. \$ Millions	Ann. Equiv. \$ Millions	Ann. Equiv. #	Ann. Equiv. \$ Millions	# Sites	# Properties	# Districts
1	Low RSLR High Employment Dispersed Population	High	1,481	13,571	334	560	1,202	85	277	17	8
		Mid		17,385	713	1,086	2,802	195	224	15	7
		Low		19,105	980	1,484	3,849	256	171	14	6
2	High RSLR High Employment Dispersed Population	High	1,486	14,251	454	761	1,772	138	277	15	7
		Mid		17,643	769	1,128	2,879	201	224	14	7
		Low		19,259	1,037	1,532	3,965	268	171	13	6
3	Low RSLR Business-as-Usual Compact Population	High	1,481	8,994	313	513	1,112	75	277	17	8
		Mid		12,444	658	881	2,430	157	224	15	7
		Low		14,071	898	1,219	3,316	205	171	14	6
4	High RSLR Business-as-Usual Compact Population	High	1,486	9,494	401	643	1,458	108	277	15	7
		Mid		12,581	692	913	2,485	162	224	14	7
		Low		14,136	925	1,251	3,358	210	171	13	6

Other Results			Wetlands Created/Protected		Scenario 1	Scenario 2	Scenario 3	Scenario 4	
Construction Time (years)			After 50 yrs (% of baseline)		103	99	103	99	
Direct Wetland Impacts (acres)			After 100 yrs (% of baseline)		110	104	110	104	
Indirect Impacts (unitless)			Present Value of Life Cycle Costs (\$ Millions)						
Spatial Integrity (unitless)			Coastal Component		15,657	15,689	15,657	15,689	
Non-Federal Share of Present Value of Life Cycle Costs	Scenario	(\$ Millions)	Nonstructural Component		0	0	0	0	
	1 / 2	10,306	10,343	Structural Component		13,348	13,420	13,348	13,420
	3 / 4	10,306	10,343	Total Project		29,005	29,109	29,005	29,109

2075 Residual Risk / Damages - Low Uncertainty (\$ Millions)								Planning Unit 2 Structural Plan Ridge Alt 100-year Design
Frequency	Scenario 1		Scenario 2		Scenario 3		Scenario 4	
	No Action	With Proj						
10-year	1,583	956	2,834	1,833	1,512	859	2,129	1,084
100-year	46,652	4,136	49,467	5,361	37,218	2,978	39,133	3,578
400-year	51,671	38,704	53,124	39,407	40,614	32,215	41,659	32,512
1,000-year	53,208	42,529	54,188	43,131	41,777	34,811	42,556	35,047
2,000-year	53,965	43,620	54,716	44,107	42,386	35,478	42,963	35,676

Note: Present Value costs and Annual Equivalent numbers are calculated for the period from 2010 to 2075 at common base year 2025 using a 4.7/8% Federal discount rate. All dollar metrics are based on 2007 price levels.





Alternative: PU2-R-100-4
Water Surface Elevations (feet - NAVD88 2004.65)

Planning Sub Unit	2010 (Base) Conditions						2060 (Future) Conditions					
	100-yr Event		400-year Event		1,000-yr Event		100-yr Event		400-year Event		1,000-yr Event	
	Without Project	With Project	Without Project	With Project	Without Project	With Project	Without Project	With Project	Without Project	With Project	Without Project	With Project
Algiers	-3.8	-3.9	10.7	-3.9	12.1	-3.9	12.9	-3.9	16.3	-3.9	17.9	-3.9
Diamond	13.0	13.0	16.7	16.7	18.9	18.9	16.2	16.2	26.3	19.9	30.2	22.1
English_Turn	-1.7	-1.7	10.7	-1.7	12.1	-1.7	12.9	-1.7	16.3	-1.7	17.9	-1.7
Gainard_Woods	13.5	13.5	17.3	17.3	19.7	19.7	16.7	16.7	20.5	20.5	22.9	22.9
Grand_Liard	15.0	15.0	16.7	16.7	18.9	18.9	18.2	18.2	26.3	19.9	30.2	22.1
Jean_Lafitte	8.4	8.4	11.9	11.9	14.0	14.0	13.0	11.6	16.9	15.1	19.3	17.2
JEFF_7a	7.7	7.7	10.8	10.8	13.1	13.1	12.8	10.9	17.1	14.0	18.2	16.3
JEFF_7c	8.4	8.4	11.9	11.9	14.0	14.0	22.7	11.6	27.6	15.1	30.0	17.2
LAFO_11b	11.6	11.6	14.5	14.5	16.1	16.1	14.4	14.8	16.9	17.7	18.4	19.3
LAFO_3a	3.9	3.9	5.1	5.1	6.0	6.0	7.0	7.1	8.2	8.3	9.0	9.2
LAFO_5d	5.8	1.5	8.7	8.5	10.9	8.5	10.6	1.5	13.4	8.5	15.1	8.5
LAFO_7c	7.1	7.1	9.1	9.1	10.3	10.3	12.0	10.3	14.2	12.3	15.4	13.5
LAFO_7e	8.1	1.5	11.3	8.5	13.4	8.5	12.5	1.5	15.3	8.5	17.3	8.5
Larose	-2.5	-2.5	9.0	9.0	12.0	12.0	15.0	-2.5	15.0	9.0	15.0	12.0
Luling	6.1	2.2	8.6	8.1	10.2	8.5	11.8	2.2	15.5	8.1	17.4	8.5
Myrtle_Grove	10.3	10.3	13.8	13.8	15.7	15.7	13.5	13.5	17.3	17.0	18.6	18.9
Ollie	8.0	8.0	13.2	13.2	15.3	15.3	11.2	11.2	19.2	16.4	22.1	18.5
PLAQ_11a	12.5	12.5	16.7	16.7	18.9	18.9	15.9	15.7	20.5	19.9	22.9	22.1
Plaq_Belle_Chase	-2.6	-2.7	11.0	5.1	11.3	11.3	11.6	-2.7	14.3	5.1	15.8	11.3
St_Charles_dav_pond	1.6	1.6	4.8	4.8	11.0	11.0	11.0	1.6	13.2	4.8	14.5	11.0
St_Charles_Sunset	7.0	-4.7	9.4	5.7	10.7	8.5	10.0	-4.7	12.3	5.7	13.7	8.5
Sunrise	15.0	15.0	16.7	16.7	18.9	18.9	18.2	18.2	26.3	19.9	30.2	22.1
West_jeff_ames	-1.5	-1.5	11.0	11.0	11.3	11.3	11.6	-1.5	14.3	11.0	15.8	11.3
West_jeff_EoH	-3.5	-3.6	11.0	11.0	11.3	11.3	11.6	-3.6	14.3	11.0	15.8	11.3
West_jeff_harvey	-2.4	-2.4	11.0	11.0	11.3	11.3	11.6	-2.4	14.3	11.0	15.8	11.3
West_jeff_segnette	-3.9	-3.9	11.0	11.0	11.3	11.3	11.6	-3.9	14.3	11.0	15.8	11.3
Evaluation Parameters	Confidence Level:			90%	Levee Design:	No Friction Waves				Levee Overtopping:	No Friction Waves	
	Future Relative Sea Level Rise:			3.2 feet		No Friction Waves					No Friction Waves	

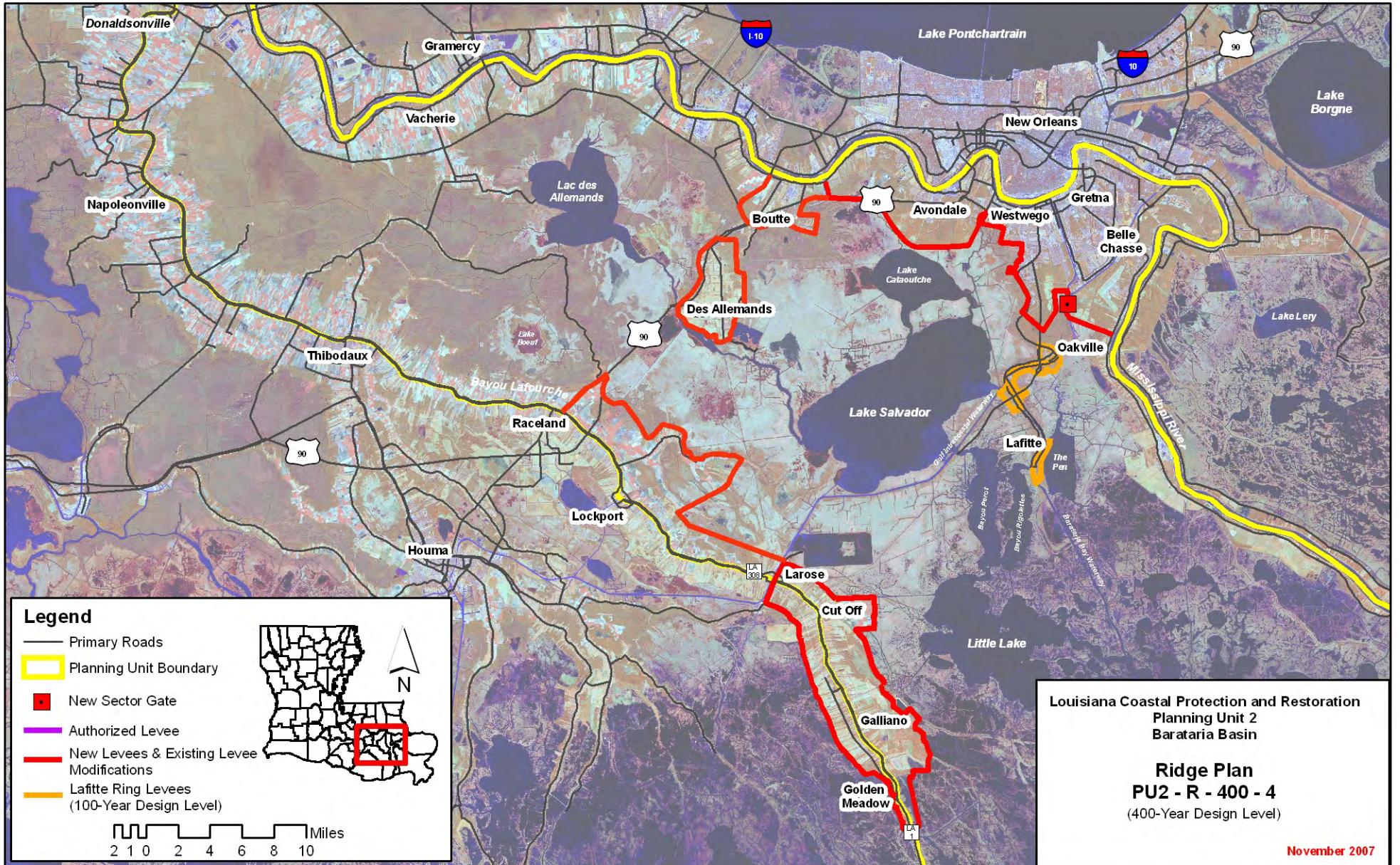
Planning Unit:	2	Alt. No.:	PU2-R-400-4	Category:	Coastal Restoration + Structural Measures
Alternative Description:	Sustain coastal landscape through restoration. Construct new sector gate on Bayou Barataria to reduce risk on the West Bank. Extend West Bank and Vicinity levees to Boutte; extend levees from Larose up Bayou Lafourche to Highway 90; and raise Des Allemand				
Coastal Component:	R2 (pulsed diversions)		Nonstructural Component:		None
Structural Component:	See alternative description above.				

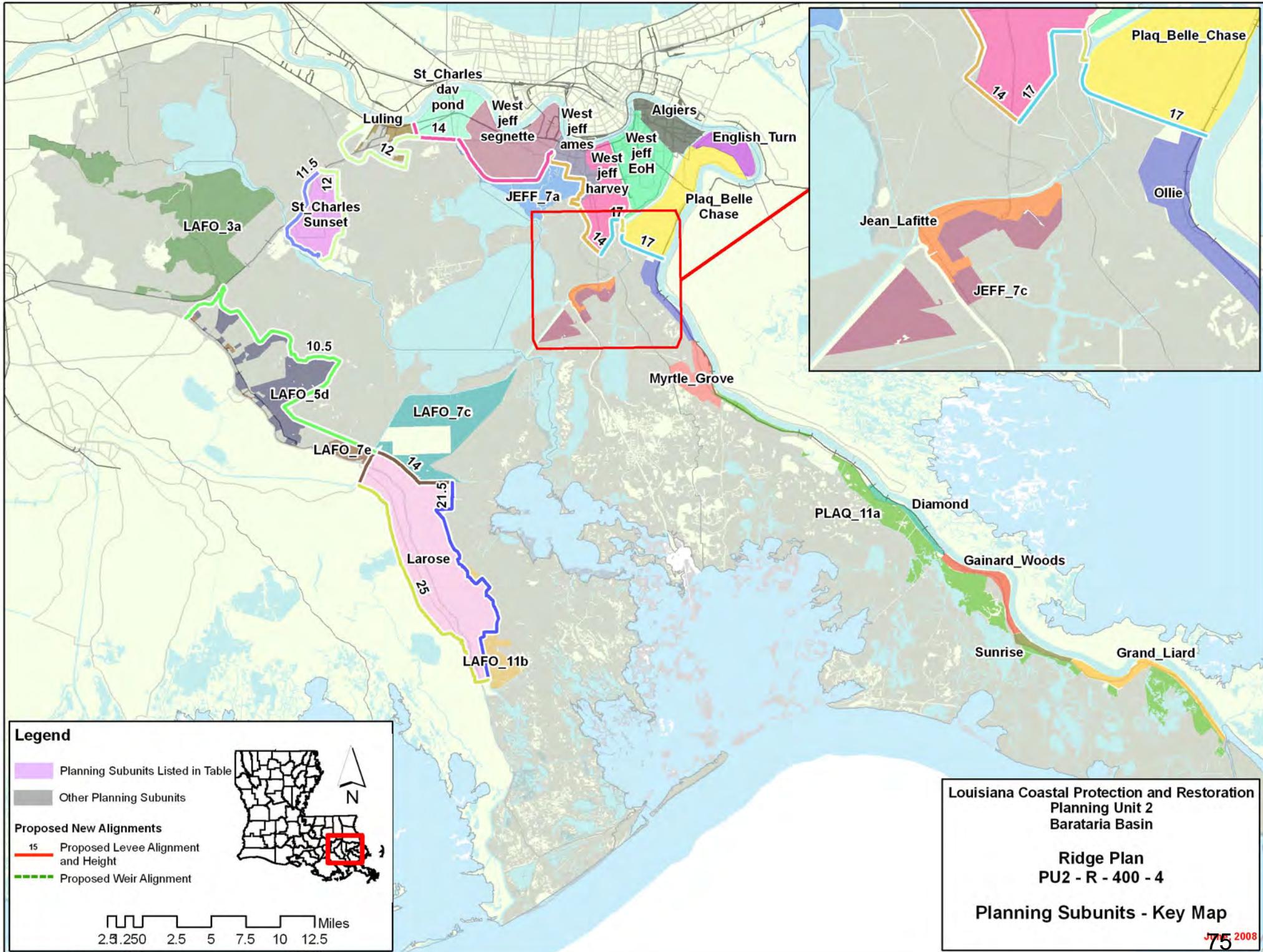
Scenario	Future Conditions (Relative Sea Level Rise (RSLR) and Redevelopment Assumptions)	Uncertainty	Results by Scenario with Uncertainty Bands								
			Life Cycle Cost	Population Impacted	Residual Damages	Gross Regional Output Impacted	Employment Impacted	People's Earned Income Impacted	Archeo. Sites Protected	Historic Properties Protected	Historic Districts Protected
			Ann. Equiv. \$ Millions	Ann. Equiv. #	Ann. Equiv. \$ Millions	Ann. Equiv. \$ Millions	Ann. Equiv. #	Ann. Equiv. \$ Millions	# Sites	# Properties	# Districts
1	Low RSLR High Employment Dispersed Population	High	2,406	13,863	349	594	1,278	93	277	26	9
		Mid		17,220	712	1,122	2,823	202	224	26	9
		Low		18,233	879	1,360	3,366	230	171	25	8
2	High RSLR High Employment Dispersed Population	High	2,415	14,687	492	836	1,966	156	277	26	9
		Mid		17,499	774	1,168	2,906	209	224	25	9
		Low		18,389	938	1,413	3,486	243	171	23	8
3	Low RSLR Business-as-Usual Compact Population	High	2,406	9,240	325	542	1,170	81	277	26	9
		Mid		12,216	651	908	2,408	161	224	26	9
		Low		13,189	794	1,105	2,846	182	171	25	8
4	High RSLR Business-as-Usual Compact Population	High	2,415	9,850	432	704	1,602	122	277	26	9
		Mid		12,366	689	946	2,471	167	224	25	9
		Low		13,256	823	1,144	2,895	187	171	23	8

Other Results			Wetlands Created/Protected		Scenario 1	Scenario 2	Scenario 3	Scenario 4	
Construction Time (years)			After 50 yrs (% of baseline)		103	99	103	99	
Direct Wetland Impacts (acres)			After 100 yrs (% of baseline)		110	104	110	104	
Indirect Impacts (unitless)			Present Value of Life Cycle Costs (\$ Millions)						
Spatial Integrity (unitless)			Coastal Component		15,657	15,689	15,657	15,689	
Non-Federal Share of Present Value of Life Cycle Costs	Scenario	(\$ Millions)	Nonstructural Component		0	0	0	0	
	1 / 2	17,039	17,099	Structural Component		31,466	31,605	31,466	31,605
	3 / 4	17,039	17,099	Total Project		47,123	47,294	47,123	47,294

2075 Residual Risk / Damages - Low Uncertainty (\$ Millions)								Planning Unit 2 Structural Plan Ridge Alt 400-year Design	
Frequency	Scenario 1		Scenario 2		Scenario 3		Scenario 4		
	No Action	With Proj							
10-year	1,583	956	2,834	1,833	1,512	859	2,129	1,084	
100-year	46,652	4,126	49,467	5,351	37,218	2,968	39,133	3,568	
400-year	51,671	6,628	53,124	7,331	40,614	3,895	41,659	4,192	
1,000-year	53,208	11,468	54,188	12,071	41,777	7,932	42,556	8,168	
2,000-year	53,965	30,382	54,716	30,868	42,386	24,894	42,963	25,093	

Note: Present Value costs and Annual Equivalent numbers are calculated for the period from 2010 to 2075 at common base year 2025 using a 4.7%/8% Federal discount rate. All dollar metrics are based on 2007 price levels.





Alternative: PU2-R-400-4
Water Surface Elevations (feet - NAVD88 2004.65)

Planning Sub Unit	2010 (Base) Conditions						2060 (Future) Conditions					
	100-yr Event		400-year Event		1,000-yr Event		100-yr Event		400-year Event		1,000-yr Event	
	Without Project	With Project	Without Project	With Project	Without Project	With Project	Without Project	With Project	Without Project	With Project	Without Project	With Project
Algiers	-3.8	-3.9	10.7	-3.9	12.1	-3.9	12.9	-3.9	16.3	-3.9	17.9	-3.9
Diamond	13.0	13.0	16.7	16.7	18.9	18.9	16.2	16.2	26.3	19.9	30.2	22.1
English_Turn	-1.7	-1.7	10.7	-1.7	12.1	-1.7	12.9	-1.7	16.3	-1.7	17.9	-1.7
Gainard_Woods	13.5	13.5	17.3	17.3	19.7	19.7	16.7	16.7	20.5	20.5	22.9	22.9
Grand_Liard	15.0	15.0	16.7	16.7	18.9	18.9	18.2	18.2	26.3	19.9	30.2	22.1
Jean_Lafitte	8.4	8.4	11.9	11.9	14.0	14.0	13.0	11.6	16.9	15.1	19.3	17.2
JEFF_7a	7.7	7.7	10.8	10.8	13.1	13.1	12.8	10.9	17.1	14.0	18.2	16.3
JEFF_7c	8.4	8.4	11.9	11.9	14.0	14.0	22.7	11.6	27.6	15.1	30.0	17.2
LAFO_11b	11.6	11.6	14.5	14.5	16.1	16.1	14.4	14.8	16.9	17.7	18.4	19.3
LAFO_3a	3.9	3.9	5.1	5.1	6.0	6.0	7.0	7.1	8.2	8.3	9.0	9.2
LAFO_5d	5.8	1.1	8.7	1.4	10.9	2.7	10.6	1.1	13.4	1.4	15.1	2.7
LAFO_7c	7.1	7.1	9.1	9.1	10.3	10.3	12.0	10.3	14.2	12.3	15.4	13.5
LAFO_7e	8.1	1.1	11.3	1.4	13.4	2.7	12.5	1.1	15.3	1.4	17.3	2.7
Larose	-2.5	-2.9	9.0	-2.3	12.0	-0.5	15.0	-2.9	15.0	-2.3	15.0	-0.5
Luling	6.1	1.5	8.6	2.1	10.2	3.6	11.8	1.5	15.5	2.1	17.4	3.6
Myrtle_Grove	10.3	10.3	13.8	13.8	15.7	15.7	13.5	13.5	17.3	17.0	18.6	18.9
Ollie	8.0	8.0	13.2	13.2	15.3	15.3	11.2	11.2	19.2	16.4	22.1	18.5
PLAQ_11a	12.5	12.5	16.7	16.7	18.9	18.9	15.9	15.7	20.5	19.9	22.9	22.1
Plaq_Belle_Chase	-2.6	-2.8	11.0	-2.6	11.3	-1.8	11.6	-2.8	14.3	-2.6	15.8	-1.8
St_Charles_dav_pond	1.6	1.5	4.8	1.7	11.0	2.7	11.0	1.5	13.2	1.7	14.5	2.7
St_Charles_Sunset	7.0	-5.1	9.4	-4.8	10.7	-3.4	10.0	-5.1	12.3	-4.8	13.7	-3.4
Sunrise	15.0	15.0	16.7	16.7	18.9	18.9	18.2	18.2	26.3	19.9	30.2	22.1
West_jeff_ames	-1.5	-1.5	11.0	-0.3	11.3	5.0	11.6	-1.5	14.3	-0.3	15.8	5.0
West_jeff_EoH	-3.5	-3.7	11.0	-3.6	11.3	-3.4	11.6	-3.7	14.3	-3.6	15.8	-3.4
West_jeff_harvey	-2.4	-2.5	11.0	-2.2	11.3	1.8	11.6	-2.5	14.3	-2.2	15.8	1.8
West_jeff_segnette	-3.9	-4.0	11.0	-3.8	11.3	-1.0	11.6	-4.0	14.3	-3.8	15.8	-1.0
Evaluation Parameters	Confidence Level:			90%			Levee Design:			No Friction Waves		
	Future Relative Sea Level Rise:			3.2 feet			Levee Overtopping:			No Friction Waves		

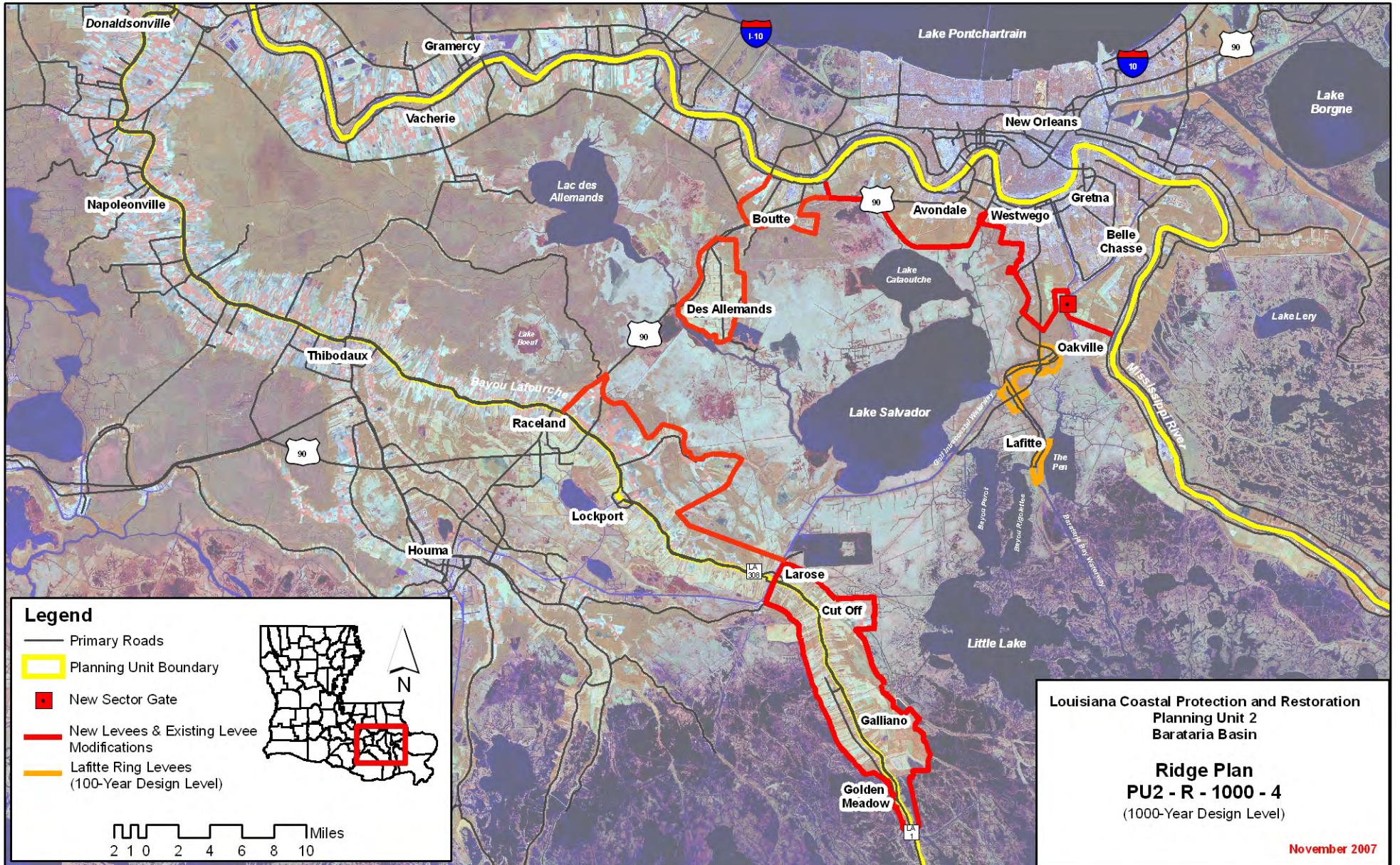
Planning Unit:	2	Alt. No.:	PU2-R-1000-4	Category:	Coastal Restoration + Structural Measures
Alternative Description:	Sustain coastal landscape through restoration. Construct new sector gate on Bayou Barataria to reduce risk on the West Bank. Extend West Bank and Vicinity levees to Boutte; extend levees from Larose up Bayou Lafourche to Highway 90; and raise Des Allemand				
Coastal Component:	R2 (pulsed diversions)		Nonstructural Component:	None	
Structural Component:	See alternative description above.				

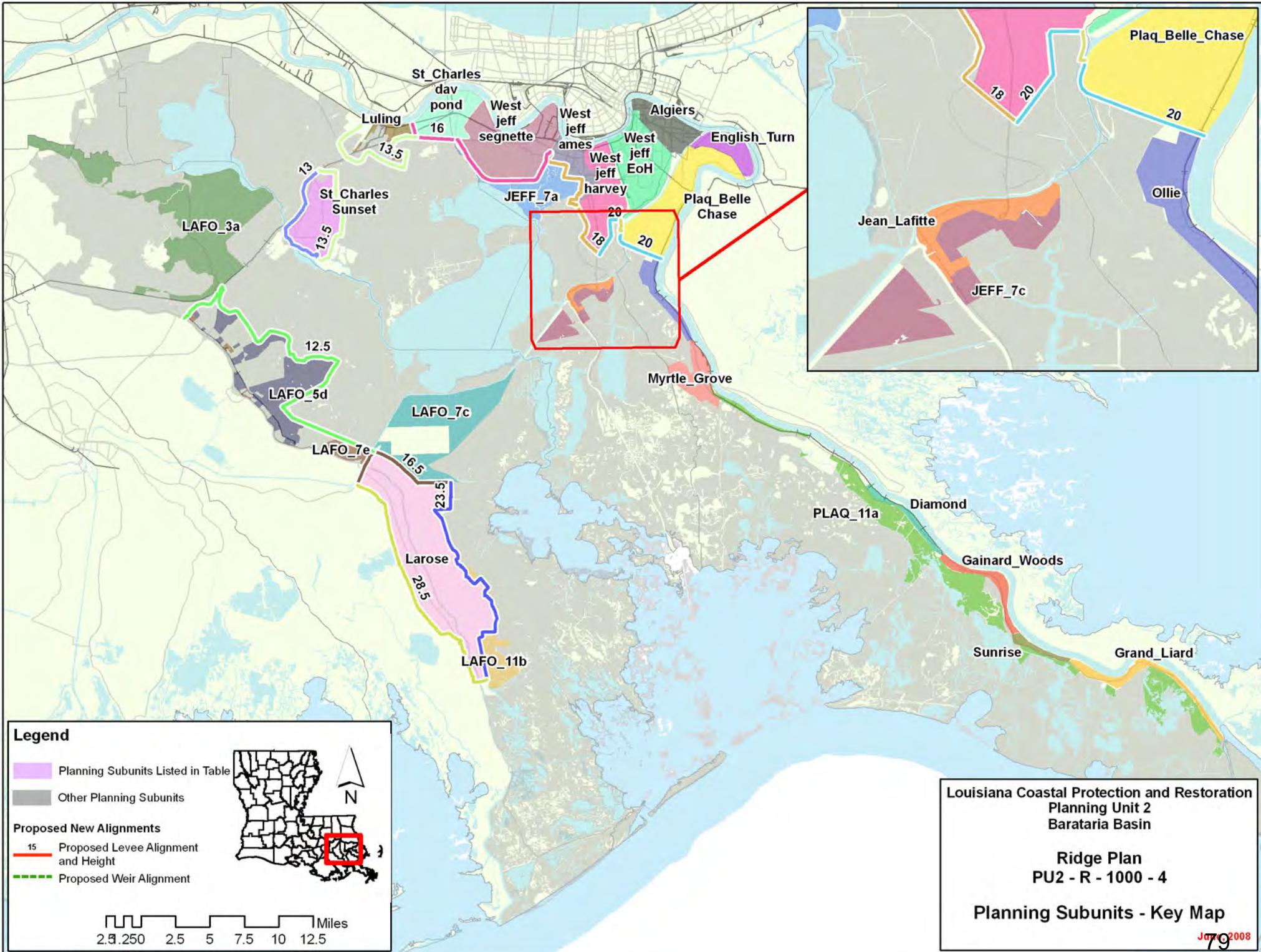
Scenario	Future Conditions (Relative Sea Level Rise (RSLR) and Redevelopment Assumptions)	Uncertainty	Results by Scenario with Uncertainty Bands								
			Life Cycle Cost	Population Impacted	Residual Damages	Gross Regional Output Impacted	Employment Impacted	People's Earned Income Impacted	Archeo. Sites Protected	Historic Properties Protected	Historic Districts Protected
			Ann. Equiv. \$ Millions	Ann. Equiv. #	Ann. Equiv. \$ Millions	Ann. Equiv. \$ Millions	Ann. Equiv. #	Ann. Equiv. \$ Millions	# Sites	# Properties	# Districts
1	Low RSLR High Employment Dispersed Population	High	2,800	13,863	349	594	1,278	93	277	26	9
		Mid		17,199	711	1,121	2,821	202	224	26	9
		Low		18,067	870	1,351	3,331	228	171	25	8
2	High RSLR High Employment Dispersed Population	High	2,832	14,687	492	836	1,966	156	277	26	9
		Mid		17,478	773	1,168	2,905	209	224	26	9
		Low		18,223	929	1,404	3,451	241	171	23	8
3	Low RSLR Business-as-Usual Compact Population	High	2,800	9,240	325	542	1,170	81	277	26	9
		Mid		12,195	650	907	2,406	161	224	26	9
		Low		13,029	786	1,097	2,811	180	171	25	8
4	High RSLR Business-as-Usual Compact Population	High	2,832	9,850	432	704	1,602	122	277	26	9
		Mid		12,346	689	946	2,469	167	224	26	9
		Low		13,096	814	1,136	2,860	185	171	23	8

Other Results			Wetlands Created/Protected		Scenario 1	Scenario 2	Scenario 3	Scenario 4	
Construction Time (years)			After 50 yrs (% of baseline)		103	99	103	99	
Direct Wetland Impacts (acres)			After 100 yrs (% of baseline)		110	104	110	104	
Indirect Impacts (unitless)			Present Value of Life Cycle Costs (\$ Millions)						
Spatial Integrity (unitless)			Coastal Component		15,657	15,689	15,657	15,689	
Non-Federal Share of Present Value of Life Cycle Costs	Scenario	(\$ Millions)	Nonstructural Component		0	0	0	0	
	1 / 2	19,773	19,994	Structural Component		39,174	39,774	39,174	39,774
	3 / 4	19,773	19,994	Total Project		54,831	55,462	54,831	55,462

2075 Residual Risk / Damages - Low Uncertainty (\$ Millions)								Planning Unit 2 Structural Plan Ridge Alt 1000-year Design	
Frequency	Scenario 1		Scenario 2		Scenario 3		Scenario 4		
	No Action	With Proj							
10-year	1,583	956	2,834	1,833	1,512	859	2,129	1,084	
100-year	46,652	4,126	49,467	5,351	37,218	2,968	39,133	3,568	
400-year	51,671	6,541	53,124	7,244	40,614	3,820	41,659	4,117	
1,000-year	53,208	7,328	54,188	7,930	41,777	4,159	42,556	4,395	
2,000-year	53,965	8,995	54,716	9,482	42,386	5,448	42,963	5,647	

Note: Present Value costs and Annual Equivalent numbers are calculated for the period from 2010 to 2075 at common base year 2025 using a 4.7%/8% Federal discount rate. All dollar metrics are based on 2007 price levels.





Alternative: PU2-R-1000-4
Water Surface Elevations (feet - NAVD88 2004.65)

Planning Sub Unit	2010 (Base) Conditions						2060 (Future) Conditions					
	100-yr Event		400-year Event		1,000-yr Event		100-yr Event		400-year Event		1,000-yr Event	
	Without Project	With Project	Without Project	With Project	Without Project	With Project	Without Project	With Project	Without Project	With Project	Without Project	With Project
Algiers	-3.8	-3.9	10.7	-3.9	12.1	-3.9	12.9	-3.9	16.3	-3.9	17.9	-3.9
Diamond	13.0	13.0	16.7	16.7	18.9	18.9	16.2	16.2	26.3	19.9	30.2	22.1
English_Turn	-1.7	-1.7	10.7	-1.7	12.1	-1.7	12.9	-1.7	16.3	-1.7	17.9	-1.7
Gainard_Woods	13.5	13.5	17.3	17.3	19.7	19.7	16.7	16.7	20.5	20.5	22.9	22.9
Grand_Liard	15.0	15.0	16.7	16.7	18.9	18.9	18.2	18.2	26.3	19.9	30.2	22.1
Jean_Lafitte	8.4	8.4	11.9	11.9	14.0	14.0	13.0	11.6	16.9	15.1	19.3	17.2
JEFF_7a	7.7	7.7	10.8	10.8	13.1	13.1	12.8	10.9	17.1	14.0	18.2	16.3
JEFF_7c	8.4	8.4	11.9	11.9	14.0	14.0	22.7	11.6	27.6	15.1	30.0	17.2
LAFO_11b	11.6	11.6	14.5	14.5	16.1	16.1	14.4	14.8	16.9	17.7	18.4	19.3
LAFO_3a	3.9	3.9	5.1	5.1	6.0	6.0	7.0	7.1	8.2	8.3	9.0	9.2
LAFO_5d	5.8	1.1	8.7	1.1	10.9	1.5	10.6	1.1	13.4	1.1	15.1	1.5
LAFO_7c	7.1	7.1	9.1	9.1	10.3	10.3	12.0	10.3	14.2	12.3	15.4	13.5
LAFO_7e	8.1	1.1	11.3	1.1	13.4	1.5	12.5	1.1	15.3	1.1	17.3	1.5
Larose	-2.5	-2.9	9.0	-2.8	12.0	-2.4	15.0	-2.9	15.0	-2.8	15.0	-2.4
Luling	6.1	1.5	8.6	1.6	10.2	2.2	11.8	1.5	15.5	1.6	17.4	2.2
Myrtle_Grove	10.3	10.3	13.8	13.8	15.7	15.7	13.5	13.5	17.3	17.0	18.6	18.9
Ollie	8.0	8.0	13.2	13.2	15.3	15.3	11.2	11.2	19.2	16.4	22.1	18.5
PLAQ_11a	12.5	12.5	16.7	16.7	18.9	18.9	15.9	15.7	20.5	19.9	22.9	22.1
Plaq_Belle_Chase	-2.6	-2.8	11.0	-2.7	11.3	-2.6	11.6	-2.8	14.3	-2.7	15.8	-2.6
St_Charles_dav_pond	1.6	1.5	4.8	1.6	11.0	1.7	11.0	1.5	13.2	1.6	14.5	1.7
St_Charles_Sunset	7.0	-5.1	9.4	-5.0	10.7	-4.7	10.0	-5.1	12.3	-5.0	13.7	-4.7
Sunrise	15.0	15.0	16.7	16.7	18.9	18.9	18.2	18.2	26.3	19.9	30.2	22.1
West_jeff_ames	-1.5	-1.5	11.0	-1.5	11.3	-0.5	11.6	-1.5	14.3	-1.5	15.8	-0.5
West_jeff_EoH	-3.5	-3.7	11.0	-3.7	11.3	-3.6	11.6	-3.7	14.3	-3.7	15.8	-3.6
West_jeff_harvey	-2.4	-2.5	11.0	-2.5	11.3	-2.2	11.6	-2.5	14.3	-2.5	15.8	-2.2
West_jeff_segnette	-3.9	-4.0	11.0	-4.0	11.3	-3.8	11.6	-4.0	14.3	-4.0	15.8	-3.8
Evaluation Parameters	Confidence Level:			90%			Levee Design:			No Friction Waves		
	Future Relative Sea Level Rise:			3.2 feet			Levee Overtopping:			No Friction Waves		

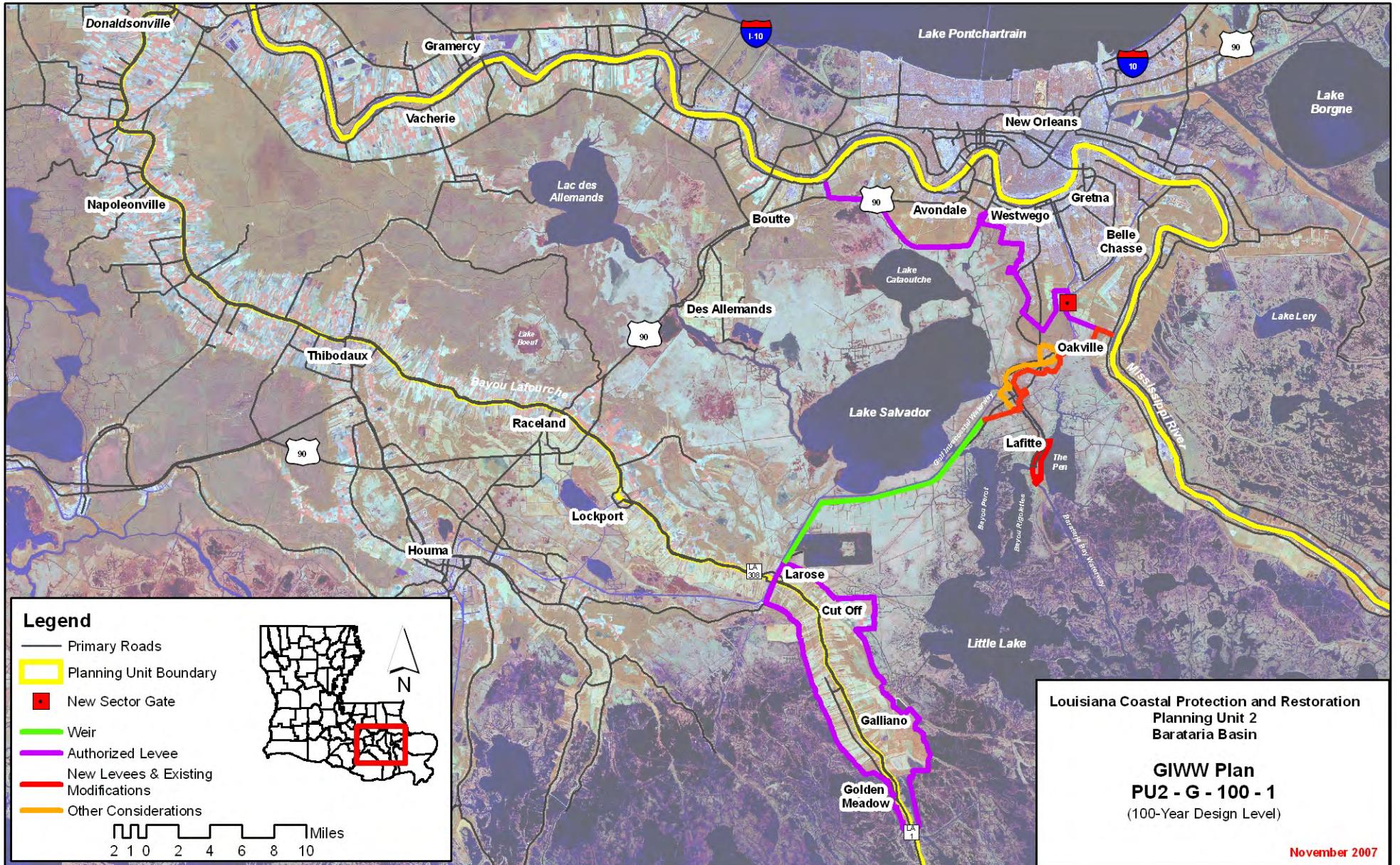
Planning Unit:	2	Alt. No.:	PU2-G-100-1	Category:	Coastal Restoration + Structural Measures
Alternative Description:	Sustain coastal landscape through restoration. Similar structural features as PU2-WBI-100-1 but with additional barrier-weir and levees along the GIWW to reduce risk to areas within the Barataria Basin. Also reduces risk to the Lafitte area.				
Coastal Component:	R2 (pulsed diversions)		Nonstructural Component:	None	
Structural Component:	See alternative description above.				

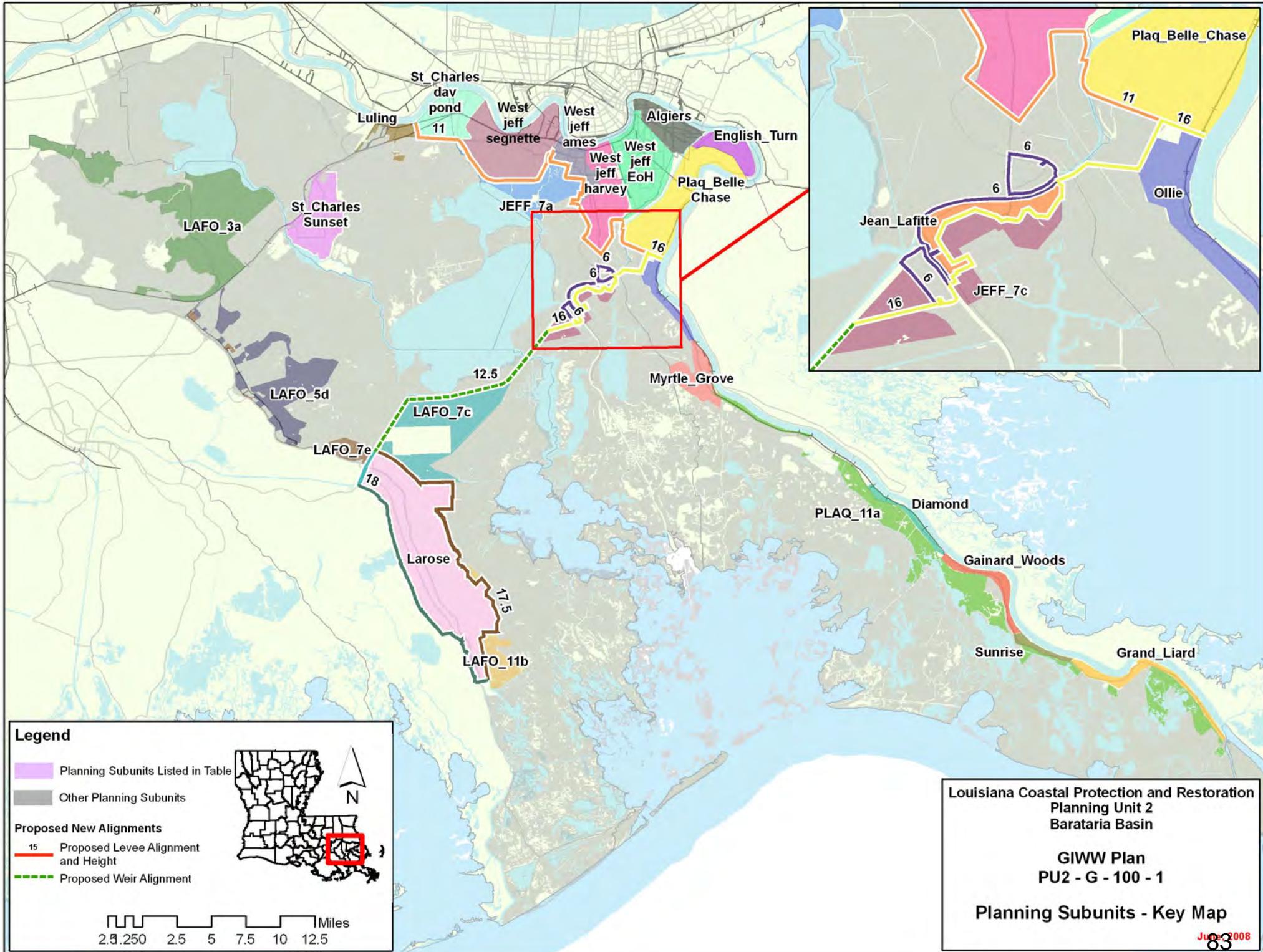
Scenario	Future Conditions (Relative Sea Level Rise (RSLR) and Redevelopment Assumptions)	Uncertainty	Results by Scenario with Uncertainty Bands								
			Life Cycle Cost	Population Impacted	Residual Damages	Gross Regional Output Impacted	Employment Impacted	People's Earned Income Impacted	Archeo. Sites Protected	Historic Properties Protected	Historic Districts Protected
			Ann. Equiv. \$ Millions	Ann. Equiv. #	Ann. Equiv. \$ Millions	Ann. Equiv. \$ Millions	Ann. Equiv. #	Ann. Equiv. \$ Millions	# Sites	# Properties	# Districts
1	Low RSLR High Employment Dispersed Population	High	1,188	15,688	352	639	1,347	94	502	26	9
		Mid		18,715	667	1,051	2,672	183	449	26	9
		Low		19,963	831	1,316	3,258	216	396	24	8
2	High RSLR High Employment Dispersed Population	High	1,197	16,567	481	900	1,973	150	502	26	9
		Mid		19,072	736	1,153	2,817	196	449	26	9
		Low		20,223	891	1,385	3,407	229	396	23	8
3	Low RSLR Business-as-Usual Compact Population	High	1,188	10,632	331	595	1,259	85	502	26	9
		Mid		13,423	628	908	2,375	154	449	26	9
		Low		14,604	773	1,099	2,852	178	396	24	8
4	High RSLR Business-as-Usual Compact Population	High	1,197	11,334	437	773	1,715	126	502	26	9
		Mid		13,711	676	1,014	2,543	169	449	26	9
		Low		14,798	814	1,228	3,042	197	396	23	8

Other Results			Wetlands Created/Protected		Scenario 1	Scenario 2	Scenario 3	Scenario 4	
Construction Time (years)			After 50 yrs (% of baseline)		103	99	103	99	
Direct Wetland Impacts (acres)			After 100 yrs (% of baseline)		110	104	110	104	
Indirect Impacts (unitless)			Present Value of Life Cycle Costs (\$ Millions)						
Spatial Integrity (unitless)			Coastal Component		15,657	15,689	15,657	15,689	
Non-Federal Share of Present Value of Life Cycle Costs	Scenario		Nonstructural Component		0	0	0	0	
	1 / 2	8,287	8,349	Structural Component		7,604	7,748	7,604	7,748
	3 / 4	8,287	8,349	Total Project		23,261	23,437	23,261	23,437

2075 Residual Risk / Damages - Low Uncertainty (\$ Millions)								Planning Unit 2 Structural Plan GIWW Alt 100-year Design
Frequency	Scenario 1		Scenario 2		Scenario 3		Scenario 4	
	No Action	With Proj						
	10-year	1,583	1,477	2,834	2,147	1,512	1,326	2,129
100-year	46,652	4,303	49,467	5,779	37,218	3,829	39,133	4,825
400-year	51,671	8,510	53,124	10,065	40,614	6,603	41,659	7,467
1,000-year	53,208	13,630	54,188	14,957	41,777	9,687	42,556	10,342
2,000-year	53,965	15,564	54,716	16,482	42,386	10,712	42,963	11,370

Note: Present Value costs and Annual Equivalent numbers are calculated for the period from 2010 to 2075 at common base year 2025 using a 4.7/8% Federal discount rate. All dollar metrics are based on 2007 price levels.





Alternative: PU2-G-100-1
Water Surface Elevations (feet - NAVD88 2004.65)

Planning Sub Unit	2010 (Base) Conditions						2060 (Future) Conditions					
	100-yr Event		400-year Event		1,000-yr Event		100-yr Event		400-year Event		1,000-yr Event	
	Without Project	With Project	Without Project	With Project	Without Project	With Project	Without Project	With Project	Without Project	With Project	Without Project	With Project
Algiers	-3.8	-3.9	10.7	-3.9	12.1	-3.9	12.9	-3.9	16.3	-3.9	17.9	-3.9
Diamond	13.0	13.0	16.7	16.4	18.9	18.6	16.2	16.2	26.3	19.6	30.2	21.8
English_Turn	-1.7	-1.7	10.7	-1.7	12.1	-1.7	12.9	-1.7	16.3	-1.7	17.9	-1.7
Gainard_Woods	13.5	13.5	17.3	17.6	19.7	20.1	16.7	16.7	20.5	20.8	22.9	23.3
Grand_Liard	15.0	15.0	16.7	16.4	18.9	18.6	18.2	18.2	26.3	19.6	30.2	21.8
Jean_Lafitte	8.4	3.5	11.9	6.0	14.0	6.0	13.0	3.5	16.9	6.0	19.3	6.0
JEFF_7a	7.7	4.5	10.8	7.2	13.1	9.8	12.8	7.7	17.1	10.4	18.2	13.0
JEFF_7c	8.4	12.0	11.9	15.5	14.0	17.6	22.7	15.2	27.6	18.7	30.0	20.8
LAFO_11b	11.6	11.4	14.5	14.6	16.1	16.3	14.4	14.6	16.9	17.8	18.4	19.5
LAFO_3a	3.9	3.2	5.1	4.3	6.0	5.1	7.0	6.4	8.2	7.5	9.0	8.3
LAFO_5d	5.8	3.1	8.7	4.4	10.9	5.4	10.6	6.3	13.4	7.6	15.1	8.6
LAFO_7c	7.1	10.2	9.1	12.2	10.3	13.5	12.0	13.4	14.2	15.4	15.4	16.7
LAFO_7e	8.1	5.0	11.3	6.2	13.4	6.9	12.5	8.2	15.3	9.4	17.3	10.1
Larose	-2.5	-2.6	9.0	6.9	12.0	15.0	15.0	-2.6	15.0	6.9	15.0	15.0
Luling	6.1	4.3	8.6	5.9	10.2	7.0	11.8	7.5	15.5	9.1	17.4	10.2
Myrtle_Grove	10.3	9.4	13.8	11.7	15.7	12.8	13.5	12.6	17.3	14.9	18.6	16.0
Ollie	8.0	8.0	13.2	16.0	15.3	18.1	11.2	11.2	19.2	19.2	22.1	21.3
PLAQ_11a	12.5	12.5	16.7	16.4	18.9	18.6	15.9	15.7	20.5	19.6	22.9	21.8
Plaq_Belle_Chase	-2.6	-2.7	11.0	-0.8	11.3	2.9	11.6	-2.7	14.3	-0.8	15.8	2.9
St_Charles_dav_pond	1.6	1.5	4.8	1.5	11.0	1.6	11.0	1.5	13.2	1.5	14.5	1.6
St_Charles_Sunset	7.0	6.3	9.4	8.9	10.7	10.5	10.0	9.5	12.3	12.1	13.7	13.7
Sunrise	15.0	15.0	16.7	16.4	18.9	18.6	18.2	18.2	26.3	19.6	30.2	21.8
West_jeff_ames	-1.5	-1.5	11.0	-1.5	11.3	-1.3	11.6	-1.5	14.3	-1.5	15.8	-1.3
West_jeff_EoH	-3.5	-3.7	11.0	-3.7	11.3	-3.7	11.6	-3.7	14.3	-3.7	15.8	-3.7
West_jeff_harvey	-2.4	-2.5	11.0	-2.5	11.3	-2.5	11.6	-2.5	14.3	-2.5	15.8	-2.5
West_jeff_segnette	-3.9	-4.0	11.0	-4.0	11.3	-4.0	11.6	-4.0	14.3	-4.0	15.8	-4.0
Evaluation Parameters	Confidence Level:			90%			Levee Design:			No Friction Waves		
	Future Relative Sea Level Rise:			3.2 feet			Levee Overtopping:			No Friction Waves		

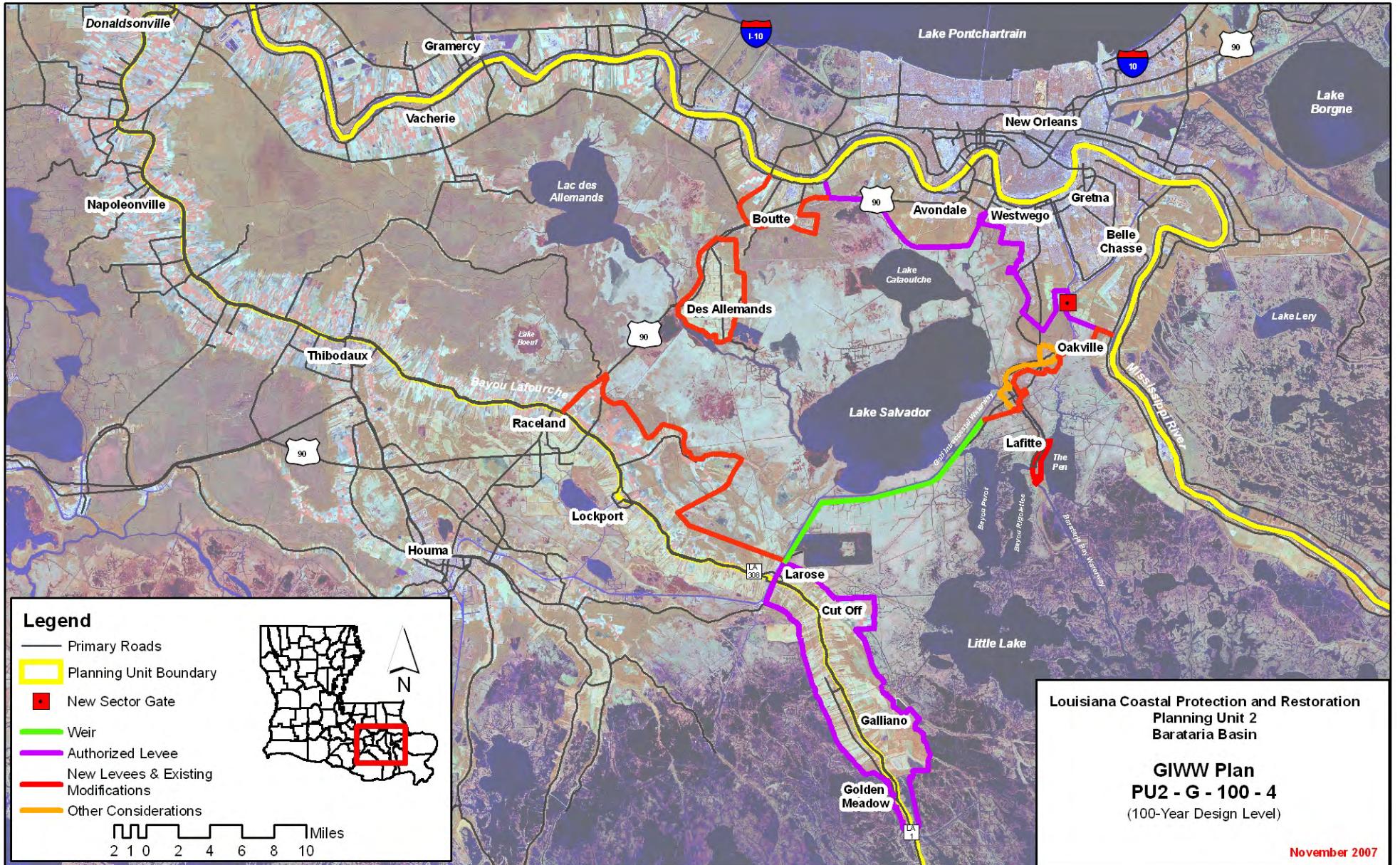
Planning Unit:	2	Alt. No.:	PU2-G-100-4	Category:	Coastal Restoration + Structural Measures
Alternative Description:	Sustain coastal landscape through restoration. Similar structural features as PU2-R-100-4 but with additional barrier-weir and levees along the GIWW to reduce risk to areas within the Barataria Basin. Also reduces risk to the Lafitte area.				
Coastal Component:	R2 (pulsed diversions)		Nonstructural Component:		None
Structural Component:	See alternative description above.				

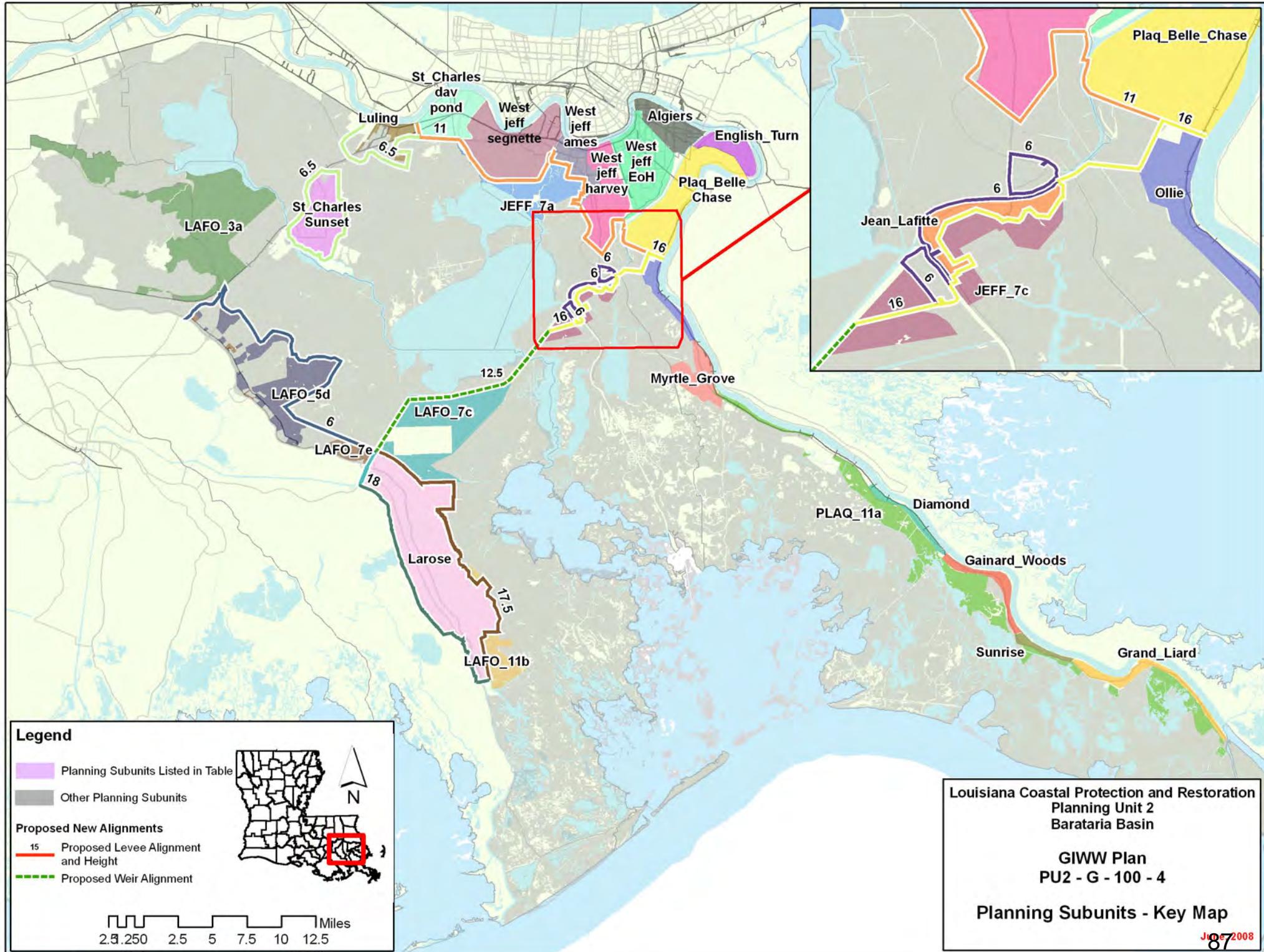
Scenario	Future Conditions (Relative Sea Level Rise (RSLR) and Redevelopment Assumptions)	Uncertainty	Results by Scenario with Uncertainty Bands								
			Life Cycle Cost	Population Impacted	Residual Damages	Gross Regional Output Impacted	Employment Impacted	People's Earned Income Impacted	Archeo. Sites Protected	Historic Properties Protected	Historic Districts Protected
			Ann. Equiv. \$ Millions	Ann. Equiv. #	Ann. Equiv. \$ Millions	Ann. Equiv. \$ Millions	Ann. Equiv. #	Ann. Equiv. \$ Millions	# Sites	# Properties	# Districts
1	Low RSLR High Employment Dispersed Population	High	1,541	13,610	319	593	1,206	86	502	26	9
		Mid		16,492	626	985	2,472	170	449	26	9
		Low		17,697	782	1,242	3,040	202	396	24	8
2	High RSLR High Employment Dispersed Population	High	1,552	14,375	433	825	1,753	135	502	26	9
		Mid		16,762	678	1,062	2,550	178	449	26	9
		Low		17,897	824	1,286	3,114	209	396	23	8
3	Low RSLR Business-as-Usual Compact Population	High	1,541	8,837	298	549	1,112	76	502	26	9
		Mid		11,481	587	847	2,185	142	449	26	9
		Low		12,569	725	1,026	2,641	165	396	24	8
4	High RSLR Business-as-Usual Compact Population	High	1,552	9,397	390	700	1,499	111	502	26	9
		Mid		11,649	620	896	2,261	149	449	26	9
		Low		12,693	750	1,067	2,704	171	396	23	8

Other Results			Wetlands Created/Protected		Scenario 1	Scenario 2	Scenario 3	Scenario 4	
Construction Time (years)			After 50 yrs (% of baseline)		103	99	103	99	
Direct Wetland Impacts (acres)			After 100 yrs (% of baseline)		110	104	110	104	
Indirect Impacts (unitless)			Present Value of Life Cycle Costs (\$ Millions)						
Spatial Integrity (unitless)			Coastal Component		15,657	15,689	15,657	15,689	
Non-Federal Share of Present Value of Life Cycle Costs	Scenario	(\$ Millions)	Nonstructural Component		0	0	0	0	
	1 / 2	10,826	10,900	Structural Component		14,521	14,700	14,521	14,700
	3 / 4	10,826	10,900	Total Project		30,178	30,389	30,178	30,389

2075 Residual Risk / Damages - Low Uncertainty (\$ Millions)								Planning Unit 2 Structural Plan GIWW Alt 100-year Design	
Frequency	Scenario 1		Scenario 2		Scenario 3		Scenario 4		
	No Action	With Proj							
10-year	1,583	959	2,834	1,352	1,512	800	2,129	1,061	
100-year	46,652	3,227	49,467	4,105	37,218	2,832	39,133	3,291	
400-year	51,671	7,521	53,124	8,395	40,614	5,852	41,659	6,164	
1,000-year	53,208	12,199	54,188	13,026	41,777	8,630	42,556	8,866	
2,000-year	53,965	13,855	54,716	14,329	42,386	9,449	42,963	9,655	

Note: Present Value costs and Annual Equivalent numbers are calculated for the period from 2010 to 2075 at common base year 2025 using a 4.78% Federal discount rate. All dollar metrics are based on 2007 price levels.





Alternative: PU2-G-100-4
Water Surface Elevations (feet - NAVD88 2004.65)

Planning Sub Unit	2010 (Base) Conditions						2060 (Future) Conditions					
	100-yr Event		400-year Event		1,000-yr Event		100-yr Event		400-year Event		1,000-yr Event	
	Without Project	With Project	Without Project	With Project	Without Project	With Project	Without Project	With Project	Without Project	With Project	Without Project	With Project
Algiers	-3.8	-3.9	10.7	-3.9	12.1	-3.9	12.9	-3.9	16.3	-3.9	17.9	-3.9
Diamond	13.0	13.0	16.7	16.4	18.9	18.6	16.2	16.2	26.3	19.6	30.2	21.8
English_Turn	-1.7	-1.7	10.7	-1.7	12.1	-1.7	12.9	-1.7	16.3	-1.7	17.9	-1.7
Gainard_Woods	13.5	13.5	17.3	17.6	19.7	20.1	16.7	16.7	20.5	20.8	22.9	23.3
Grand_Liard	15.0	15.0	16.7	16.4	18.9	18.6	18.2	18.2	26.3	19.6	30.2	21.8
Jean_Lafitte	8.4	3.5	11.9	6.0	14.0	6.0	13.0	3.5	16.9	6.0	19.3	6.0
JEFF_7a	7.7	4.5	10.8	7.2	13.1	9.8	12.8	7.7	17.1	10.4	18.2	13.0
JEFF_7c	8.4	12.0	11.9	15.5	14.0	17.6	22.7	15.2	27.6	18.7	30.0	20.8
LAFO_11b	11.6	11.4	14.5	14.6	16.1	16.3	14.4	14.6	16.9	17.8	18.4	19.5
LAFO_3a	3.9	3.2	5.1	4.3	6.0	5.1	7.0	6.4	8.2	7.5	9.0	8.3
LAFO_5d	5.8	1.3	8.7	5.1	10.9	6.0	10.6	1.3	13.4	5.1	15.1	6.0
LAFO_7c	7.1	10.2	9.1	12.2	10.3	13.5	12.0	13.4	14.2	15.4	15.4	16.7
LAFO_7e	8.1	1.3	11.3	5.1	13.4	6.0	12.5	1.3	15.3	5.1	17.3	6.0
Larose	-2.5	-2.6	9.0	6.9	12.0	15.0	15.0	-2.6	15.0	6.9	15.0	15.0
Luling	6.1	2.0	8.6	6.5	10.2	6.5	11.8	2.0	15.5	6.5	17.4	6.5
Myrtle_Grove	10.3	9.4	13.8	11.7	15.7	12.8	13.5	12.6	17.3	14.9	18.6	16.0
Ollie	8.0	8.0	13.2	16.0	15.3	18.1	11.2	11.2	19.2	19.2	22.1	21.3
PLAQ_11a	12.5	12.5	16.7	16.4	18.9	18.6	15.9	15.7	20.5	19.6	22.9	21.8
Plaq_Belle_Chase	-2.6	-2.7	11.0	-0.8	11.3	2.9	11.6	-2.7	14.3	-0.8	15.8	2.9
St_Charles_dav_pond	1.6	1.5	4.8	1.5	11.0	1.6	11.0	1.5	13.2	1.5	14.5	1.6
St_Charles_Sunset	7.0	-4.8	9.4	5.1	10.7	6.5	10.0	-4.8	12.3	5.1	13.7	6.5
Sunrise	15.0	15.0	16.7	16.4	18.9	18.6	18.2	18.2	26.3	19.6	30.2	21.8
West_jeff_ames	-1.5	-1.5	11.0	-1.5	11.3	-1.3	11.6	-1.5	14.3	-1.5	15.8	-1.3
West_jeff_EoH	-3.5	-3.7	11.0	-3.7	11.3	-3.7	11.6	-3.7	14.3	-3.7	15.8	-3.7
West_jeff_harvey	-2.4	-2.5	11.0	-2.5	11.3	-2.5	11.6	-2.5	14.3	-2.5	15.8	-2.5
West_jeff_segnette	-3.9	-4.0	11.0	-4.0	11.3	-4.0	11.6	-4.0	14.3	-4.0	15.8	-4.0
Evaluation Parameters	Confidence Level:			90%			Levee Design:			No Friction Waves		
	Future Relative Sea Level Rise:			3.2 feet			Levee Overtopping:			No Friction Waves		

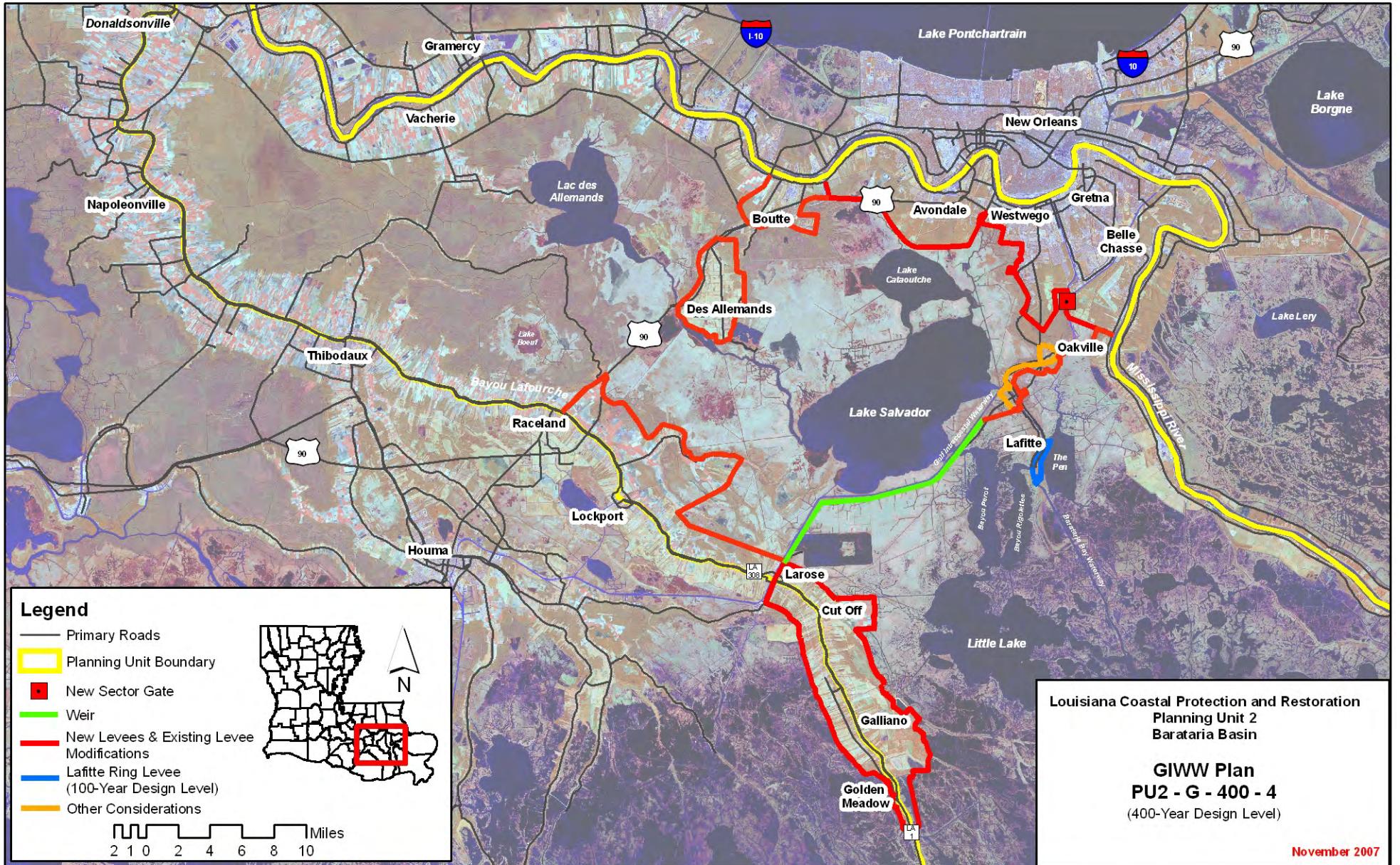
Planning Unit:	2	Alt. No.:	PU2-G-400-4	Category:	Coastal Restoration + Structural Measures
Alternative Description:	Sustain coastal landscape through restoration. Similar structural features as PU2-R-400-4 but with additional barrier-weir and levees along the GIWW to reduce risk to areas within the Barataria Basin. Also reduces risk to the Lafitte area.				
Coastal Component:	R2 (pulsed diversions)		Nonstructural Component:	None	
Structural Component:	See alternative description above.				

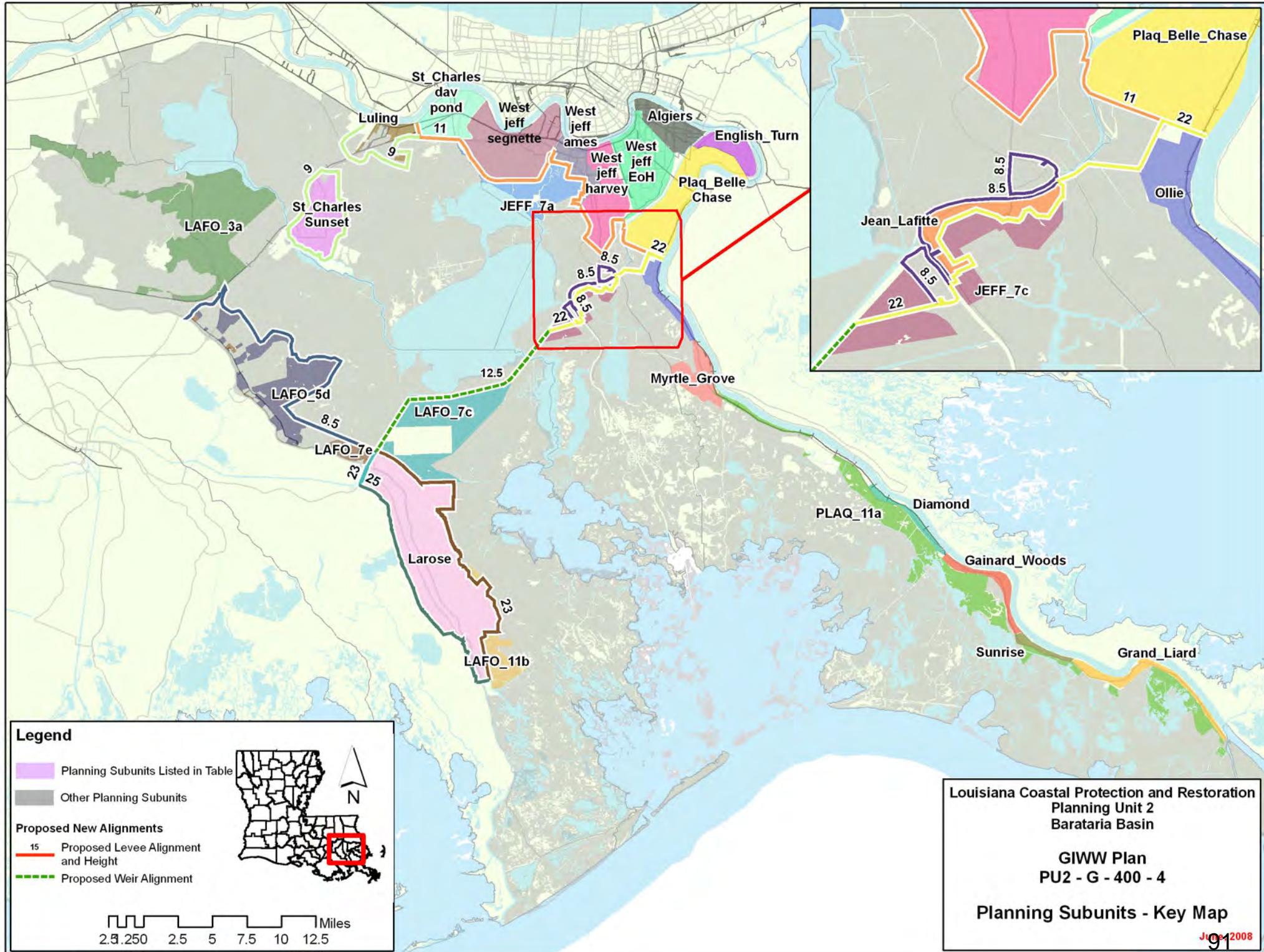
Scenario	Future Conditions (Relative Sea Level Rise (RSLR) and Redevelopment Assumptions)	Uncertainty	Results by Scenario with Uncertainty Bands								
			Life Cycle Cost	Population Impacted	Residual Damages	Gross Regional Output Impacted	Employment Impacted	People's Earned Income Impacted	Archeo. Sites Protected	Historic Properties Protected	Historic Districts Protected
			Ann. Equiv. \$ Millions	Ann. Equiv. #	Ann. Equiv. \$ Millions	Ann. Equiv. \$ Millions	Ann. Equiv. #	Ann. Equiv. \$ Millions	# Sites	# Properties	# Districts
1	Low RSLR High Employment Dispersed Population	High	2,574	14,073	343	630	1,303	95	502	27	9
		Mid		17,142	688	1,094	2,760	195	449	27	9
		Low		18,067	839	1,327	3,262	221	396	25	8
2	High RSLR High Employment Dispersed Population	High	2,582	14,977	481	900	1,970	155	502	27	9
		Mid		17,432	746	1,173	2,844	203	449	27	9
		Low		18,265	884	1,377	3,344	230	396	24	8
3	Low RSLR Business-as-Usual Compact Population	High	2,574	9,277	318	580	1,193	83	502	27	9
		Mid		12,074	640	931	2,414	161	449	27	9
		Low		12,944	772	1,095	2,813	180	396	25	8
4	High RSLR Business-as-Usual Compact Population	High	2,582	9,942	430	761	1,663	127	502	27	9
		Mid		12,253	677	986	2,496	169	449	27	9
		Low		13,065	799	1,143	2,882	187	396	24	8

Other Results			Wetlands Created/Protected		Scenario 1	Scenario 2	Scenario 3	Scenario 4
Construction Time (years)			After 50 yrs (% of baseline)		103	99	103	99
Direct Wetland Impacts (acres)			After 100 yrs (% of baseline)		110	104	110	104
Indirect Impacts (unitless)			Present Value of Life Cycle Costs (\$ Millions)					
Spatial Integrity (unitless)			Coastal Component		15,657	15,689	15,657	15,689
Non-Federal Share of Present Value of Life Cycle Costs	Scenario	(\$ Millions)	Nonstructural Component		0	0	0	0
	1 / 2	18,158	Structural Component		34,745	34,880	34,745	34,880
	3 / 4	18,158	Total Project		50,402	50,569	50,402	50,569

2075 Residual Risk / Damages - Low Uncertainty (\$ Millions)								Planning Unit 2 Structural Plan GIWW Alt 400-year Design	
Frequency	Scenario 1		Scenario 2		Scenario 3		Scenario 4		
	No Action	With Proj							
10-year	1,583	959	2,834	1,352	1,512	800	2,129	1,061	
100-year	46,652	3,208	49,467	4,085	37,218	2,813	39,133	3,271	
400-year	51,671	5,118	53,124	5,992	40,614	3,506	41,659	3,818	
1,000-year	53,208	6,641	54,188	7,469	41,777	4,015	42,556	4,251	
2,000-year	53,965	7,692	54,716	8,166	42,386	4,570	42,963	4,777	

Note: Present Value costs and Annual Equivalent numbers are calculated for the period from 2010 to 2075 at common base year 2025 using a 4.78% Federal discount rate. All dollar metrics are based on 2007 price levels.





Alternative: PU2-G-400-4
Water Surface Elevations (feet - NAVD88 2004.65)

Planning Sub Unit	2010 (Base) Conditions						2060 (Future) Conditions					
	100-yr Event		400-year Event		1,000-yr Event		100-yr Event		400-year Event		1,000-yr Event	
	Without Project	With Project	Without Project	With Project	Without Project	With Project	Without Project	With Project	Without Project	With Project	Without Project	With Project
Algiers	-3.8	-3.9	10.7	-3.9	12.1	-3.9	12.9	-3.9	16.3	-3.9	17.9	-3.9
Diamond	13.0	13.0	16.7	16.4	18.9	18.6	16.2	16.2	26.3	19.6	30.2	21.8
English_Turn	-1.7	-1.7	10.7	-1.7	12.1	-1.7	12.9	-1.7	16.3	-1.7	17.9	-1.7
Gainard_Woods	13.5	13.5	17.3	17.6	19.7	20.1	16.7	16.7	20.5	20.8	22.9	23.3
Grand_Liard	15.0	15.0	16.7	16.4	18.9	18.6	18.2	18.2	26.3	19.6	30.2	21.8
Jean_Lafitte	8.4	1.0	11.9	3.4	14.0	8.5	13.0	1.0	16.9	3.4	19.3	8.5
JEFF_7a	7.7	4.5	10.8	7.2	13.1	9.8	12.8	7.7	17.1	10.4	18.2	13.0
JEFF_7c	8.4	12.0	11.9	15.5	14.0	17.6	22.7	15.2	27.6	18.7	30.0	20.8
LAFO_11b	11.6	11.4	14.5	14.6	16.1	16.3	14.4	14.6	16.9	17.8	18.4	19.5
LAFO_3a	3.9	3.2	5.1	4.3	6.0	5.1	7.0	6.4	8.2	7.5	9.0	8.3
LAFO_5d	5.8	1.1	8.7	1.2	10.9	2.4	10.6	1.1	13.4	1.2	15.1	2.4
LAFO_7c	7.1	10.2	9.1	12.2	10.3	13.5	12.0	13.4	14.2	15.4	15.4	16.7
LAFO_7e	8.1	1.1	11.3	1.2	13.4	2.4	12.5	1.1	15.3	1.2	17.3	2.4
Larose	-2.5	-2.9	9.0	-2.6	12.0	-1.5	15.0	-2.9	15.0	-2.6	15.0	-1.5
Luling	6.1	1.5	8.6	2.0	10.2	3.7	11.8	1.5	15.5	2.0	17.4	3.7
Myrtle_Grove	10.3	9.4	13.8	11.7	15.7	12.8	13.5	12.6	17.3	14.9	18.6	16.0
Ollie	8.0	8.0	13.2	16.0	15.3	18.1	11.2	11.2	19.2	19.2	22.1	21.3
PLAQ_11a	12.5	12.5	16.7	16.4	18.9	18.6	15.9	15.7	20.5	19.6	22.9	21.8
Plaq_Belle_Chase	-2.6	-2.8	11.0	-2.7	11.3	-2.5	11.6	-2.8	14.3	-2.7	15.8	-2.5
St_Charles_dav_pond	1.6	1.5	4.8	1.5	11.0	1.6	11.0	1.5	13.2	1.5	14.5	1.6
St_Charles_Sunset	7.0	-5.1	9.4	-4.7	10.7	-2.6	10.0	-5.1	12.3	-4.7	13.7	-2.6
Sunrise	15.0	15.0	16.7	16.4	18.9	18.6	18.2	18.2	26.3	19.6	30.2	21.8
West_jeff_ames	-1.5	-1.5	11.0	-1.5	11.3	-1.3	11.6	-1.5	14.3	-1.5	15.8	-1.3
West_jeff_EoH	-3.5	-3.7	11.0	-3.7	11.3	-3.7	11.6	-3.7	14.3	-3.7	15.8	-3.7
West_jeff_harvey	-2.4	-2.5	11.0	-2.5	11.3	-2.5	11.6	-2.5	14.3	-2.5	15.8	-2.5
West_jeff_segnette	-3.9	-4.0	11.0	-4.0	11.3	-4.0	11.6	-4.0	14.3	-4.0	15.8	-4.0
Evaluation Parameters	Confidence Level:			90%			Levee Design:			No Friction Waves		
	Future Relative Sea Level Rise:			3.2 feet			Levee Overtopping:			No Friction Waves		

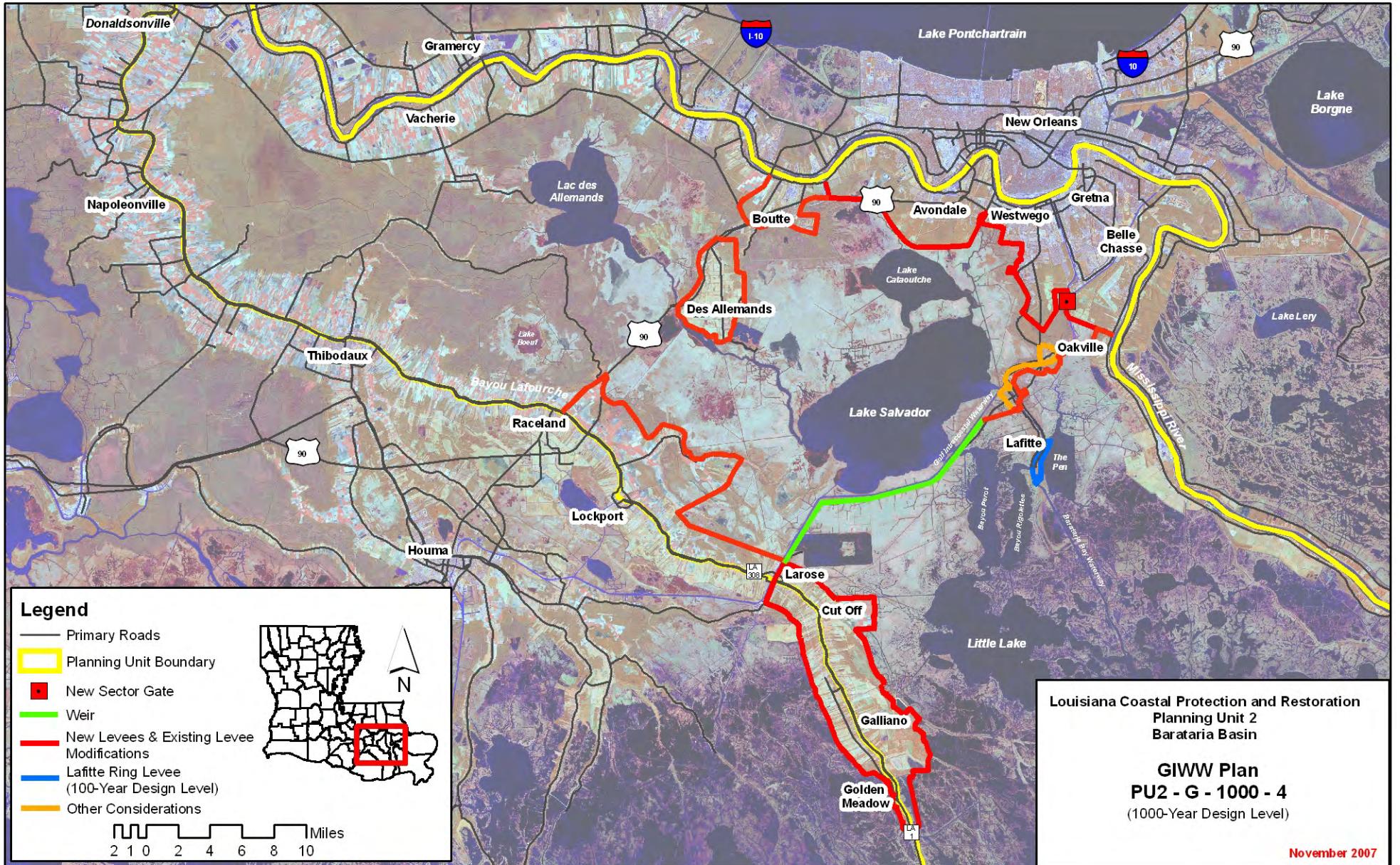
Planning Unit:	2	Alt. No.:	PU2-G-1000-4	Category:	Coastal Restoration + Structural Measures
Alternative Description:	Sustain coastal landscape through restoration. Similar structural features as PU2-R-1000-4 but with additional barrier-weir and levees along the GIWW to reduce risk to areas within the Barataria Basin. Also reduces risk to the Lafitte area.				
Coastal Component:	R2 (pulsed diversions)		Nonstructural Component:	None	
Structural Component:	See alternative description above.				

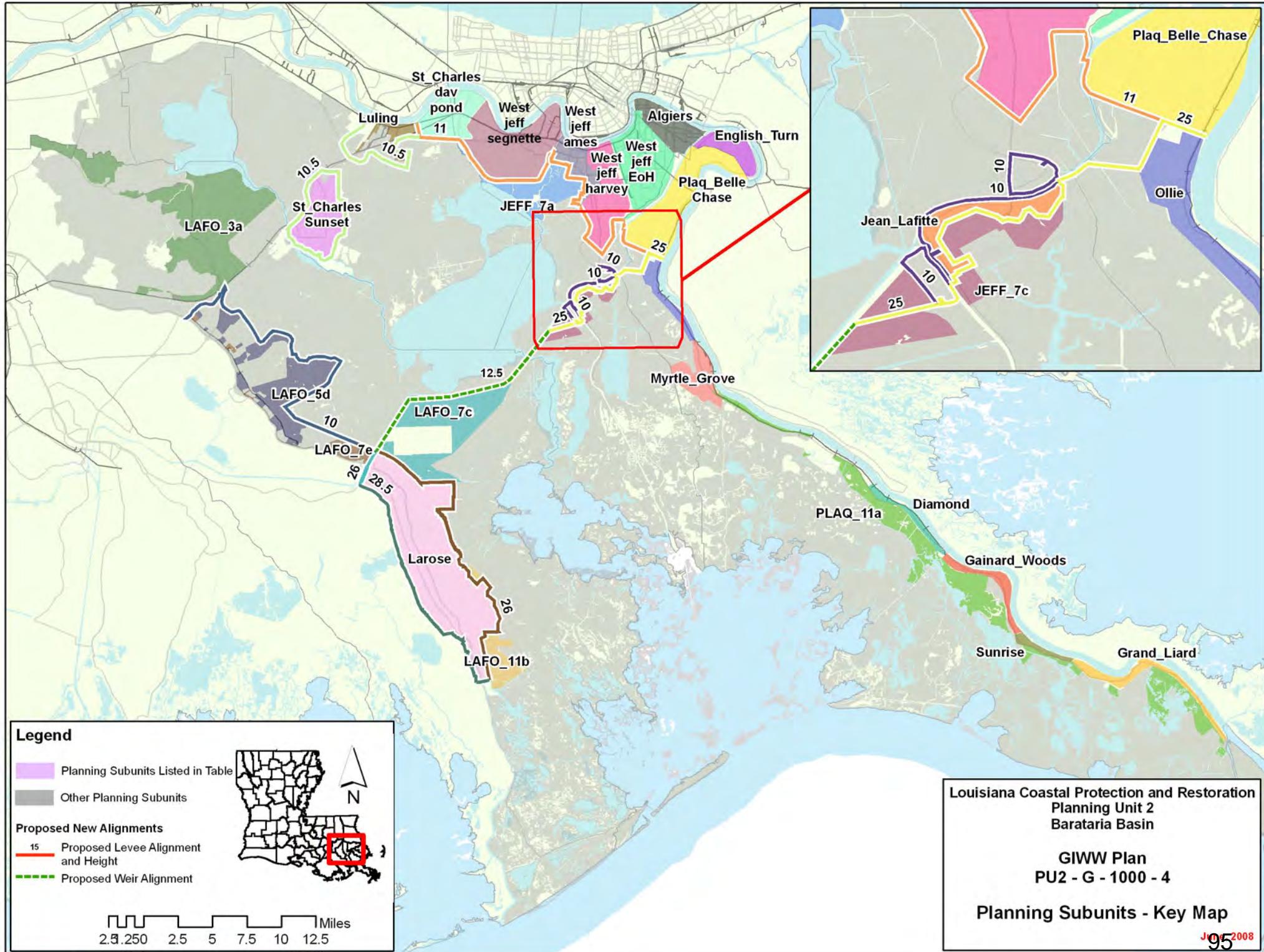
Scenario	Future Conditions (Relative Sea Level Rise (RSLR) and Redevelopment Assumptions)	Uncertainty	Results by Scenario with Uncertainty Bands								
			Life Cycle Cost	Population Impacted	Residual Damages	Gross Regional Output Impacted	Employment Impacted	People's Earned Income Impacted	Archeo. Sites Protected	Historic Properties Protected	Historic Districts Protected
			Ann. Equiv. \$ Millions	Ann. Equiv. #	Ann. Equiv. \$ Millions	Ann. Equiv. \$ Millions	Ann. Equiv. #	Ann. Equiv. \$ Millions	# Sites	# Properties	# Districts
1	Low RSLR High Employment Dispersed Population	High	2,961	14,073	343	630	1,303	95	502	27	9
		Mid		17,138	688	1,094	2,760	195	449	27	9
		Low		18,021	839	1,327	3,261	221	396	25	8
2	High RSLR High Employment Dispersed Population	High	2,969	14,977	481	900	1,970	155	502	27	9
		Mid		17,429	746	1,173	2,844	203	449	27	9
		Low		18,219	884	1,377	3,343	230	396	24	8
3	Low RSLR Business-as-Usual Compact Population	High	2,961	9,277	318	580	1,193	83	502	27	9
		Mid		12,072	640	931	2,414	161	449	27	9
		Low		12,905	772	1,095	2,812	179	396	25	8
4	High RSLR Business-as-Usual Compact Population	High	2,969	9,942	430	761	1,663	127	502	27	9
		Mid		12,250	677	986	2,496	169	449	27	9
		Low		13,026	798	1,142	2,880	187	396	24	8

Other Results			Wetlands Created/Protected		Scenario 1	Scenario 2	Scenario 3	Scenario 4
Construction Time (years)			After 50 yrs (% of baseline)		103	99	103	99
Direct Wetland Impacts (acres)			After 100 yrs (% of baseline)		110	104	110	104
Indirect Impacts (unitless)			Present Value of Life Cycle Costs (\$ Millions)					
Spatial Integrity (unitless)			Coastal Component		15,657	15,689	15,657	15,689
Non-Federal Share of Present Value of Life Cycle Costs	Scenario	(\$ Millions)	Nonstructural Component		0	0	0	0
	1 / 2	20,650	Structural Component		42,335	42,457	42,335	42,457
	3 / 4	20,650	Total Project		57,992	58,146	57,992	58,146

2075 Residual Risk / Damages - Low Uncertainty (\$ Millions)								Planning Unit 2 Structural Plan GIWW Alt 1000-year Design	
Frequency	Scenario 1		Scenario 2		Scenario 3		Scenario 4		
	No Action	With Proj							
10-year	1,583	959	2,834	1,352	1,512	800	2,129	1,061	
100-year	46,652	3,208	49,467	4,085	37,218	2,813	39,133	3,271	
400-year	51,671	5,103	53,124	5,977	40,614	3,491	41,659	3,802	
1,000-year	53,208	6,424	54,188	7,251	41,777	3,799	42,556	4,035	
2,000-year	53,965	7,228	54,716	7,703	42,386	4,081	42,963	4,288	

Note: Present Value costs and Annual Equivalent numbers are calculated for the period from 2010 to 2075 at common base year 2025 using a 4.78% Federal discount rate. All dollar metrics are based on 2007 price levels.





Alternative: PU2-G-1000-4
Water Surface Elevations (feet - NAVD88 2004.65)

Planning Sub Unit	2010 (Base) Conditions						2060 (Future) Conditions					
	100-yr Event		400-year Event		1,000-yr Event		100-yr Event		400-year Event		1,000-yr Event	
	Without Project	With Project	Without Project	With Project	Without Project	With Project	Without Project	With Project	Without Project	With Project	Without Project	With Project
Algiers	-3.8	-3.9	10.7	-3.9	12.1	-3.9	12.9	-3.9	16.3	-3.9	17.9	-3.9
Diamond	13.0	13.0	16.7	16.4	18.9	18.6	16.2	16.2	26.3	19.6	30.2	21.8
English_Turn	-1.7	-1.7	10.7	-1.7	12.1	-1.7	12.9	-1.7	16.3	-1.7	17.9	-1.7
Gainard_Woods	13.5	13.5	17.3	17.6	19.7	20.1	16.7	16.7	20.5	20.8	22.9	23.3
Grand_Liard	15.0	15.0	16.7	16.4	18.9	18.6	18.2	18.2	26.3	19.6	30.2	21.8
Jean_Lafitte	8.4	0.9	11.9	1.4	14.0	3.7	13.0	0.9	16.9	1.4	19.3	3.7
JEFF_7a	7.7	4.5	10.8	7.2	13.1	9.8	12.8	7.7	17.1	10.4	18.2	13.0
JEFF_7c	8.4	12.0	11.9	15.5	14.0	17.6	22.7	15.2	27.6	18.7	30.0	20.8
LAFO_11b	11.6	11.4	14.5	14.6	16.1	16.3	14.4	14.6	16.9	17.8	18.4	19.5
LAFO_3a	3.9	3.2	5.1	4.3	6.0	5.1	7.0	6.4	8.2	7.5	9.0	8.3
LAFO_5d	5.8	1.1	8.7	1.1	10.9	1.3	10.6	1.1	13.4	1.1	15.1	1.3
LAFO_7c	7.1	10.2	9.1	12.2	10.3	13.5	12.0	13.4	14.2	15.4	15.4	16.7
LAFO_7e	8.1	1.1	11.3	1.1	13.4	1.3	12.5	1.1	15.3	1.1	17.3	1.3
Larose	-2.5	-2.9	9.0	-2.8	12.0	-2.7	15.0	-2.9	15.0	-2.8	15.0	-2.7
Luling	6.1	1.5	8.6	1.6	10.2	2.1	11.8	1.5	15.5	1.6	17.4	2.1
Myrtle_Grove	10.3	9.4	13.8	11.7	15.7	12.8	13.5	12.6	17.3	14.9	18.6	16.0
Ollie	8.0	8.0	13.2	16.0	15.3	18.1	11.2	11.2	19.2	19.2	22.1	21.3
PLAQ_11a	12.5	12.5	16.7	16.4	18.9	18.6	15.9	15.7	20.5	19.6	22.9	21.8
Plaq_Belle_Chase	-2.6	-2.8	11.0	-2.7	11.3	-2.7	11.6	-2.8	14.3	-2.7	15.8	-2.7
St_Charles_dav_pond	1.6	1.5	4.8	1.5	11.0	1.6	11.0	1.5	13.2	1.5	14.5	1.6
St_Charles_Sunset	7.0	-5.1	9.4	-5.0	10.7	-4.6	10.0	-5.1	12.3	-5.0	13.7	-4.6
Sunrise	15.0	15.0	16.7	16.4	18.9	18.6	18.2	18.2	26.3	19.6	30.2	21.8
West_jeff_ames	-1.5	-1.5	11.0	-1.5	11.3	-1.3	11.6	-1.5	14.3	-1.5	15.8	-1.3
West_jeff_EoH	-3.5	-3.7	11.0	-3.7	11.3	-3.7	11.6	-3.7	14.3	-3.7	15.8	-3.7
West_jeff_harvey	-2.4	-2.5	11.0	-2.5	11.3	-2.5	11.6	-2.5	14.3	-2.5	15.8	-2.5
West_jeff_segnette	-3.9	-4.0	11.0	-4.0	11.3	-4.0	11.6	-4.0	14.3	-4.0	15.8	-4.0
Evaluation Parameters	Confidence Level:			90%			Levee Design:			No Friction Waves		
	Future Relative Sea Level Rise:			3.2 feet			Levee Overtopping:			No Friction Waves		

Planning Unit:	2	Alt. No.:	PU2-C-WBI-100-1	Category:	Comprehensive (Coastal+Structural+Nonstructural)
Alternative Description:	Comprehensive plan--Same coastal and structural measures as Alternative PU2-WBI-100-1 but with complementary nonstructural measures to reduce residual risk.				
Coastal Component:	R2 (pulsed diversions)		Nonstructural Component:	100-yr complementary measures	
Structural Component:	Same as Alternative PU2-WBI-100-1				

Scenario	Future Conditions (Relative Sea Level Rise (RSLR) and Redevelopment Assumptions)	Uncertainty	Results by Scenario with Uncertainty Bands								
			Life Cycle Cost	Population Impacted	Residual Damages	Gross Regional Output Impacted	Employment Impacted	People's Earned Income Impacted	Archeo. Sites Protected	Historic Properties Protected	Historic Districts Protected
			Ann. Equiv. \$ Millions	Ann. Equiv. #	Ann. Equiv. \$ Millions	Ann. Equiv. \$ Millions	Ann. Equiv. #	Ann. Equiv. \$ Millions	# Sites	# Properties	# Districts
1	Low RSLR High Employment Dispersed Population	High	1,065	14,954	200	290	637	47	266	17	8
		Mid		18,200	459	794	1,984	142	213	15	7
		Low		20,047	739	1,182	3,055	211	160	14	6
2	High RSLR High Employment Dispersed Population	High	1,068	15,428	288	500	1,137	95	266	15	7
		Mid		18,493	537	911	2,186	162	213	14	7
		Low		20,265	827	1,303	3,272	236	160	13	6
3	Low RSLR Business-as-Usual Compact Population	High	1,072	10,244	180	267	611	44	266	17	8
		Mid		13,205	412	668	1,761	118	213	15	7
		Low		15,036	650	1,004	2,703	177	160	14	6
4	High RSLR Business-as-Usual Compact Population	High	1,075	10,613	243	461	991	80	266	15	7
		Mid		13,392	468	827	1,986	142	213	14	7
		Low		15,126	711	1,158	2,871	197	160	13	6

Other Results			Wetlands Created/Protected		Scenario 1	Scenario 2	Scenario 3	Scenario 4
Construction Time (years)			After 50 yrs (% of baseline)		103	99	103	99
Direct Wetland Impacts (acres)			After 100 yrs (% of baseline)		110	104	110	104
Indirect Impacts (unitless)			Present Value of Life Cycle Costs (\$ Millions)					
Spatial Integrity (unitless)			Coastal Component		15,657	15,689	15,657	15,689
Non-Federal Share of Present Value of Life Cycle Costs	Scenario	(\$ Millions)	Nonstructural Component		4,218	4,218	4,348	4,348
	1 / 2	7,334	Structural Component		999	1,024	999	1,024
	3 / 4	7,379	Total Project		20,874	20,930	21,004	21,060

2075 Residual Risk / Damages - Low Uncertainty (\$ Millions)								Planning Unit 2 Comprehensive Plan West Bank Alt 100-year Design
Frequency	Scenario 1		Scenario 2		Scenario 3		Scenario 4	
	No Action	With Proj						
10-year	1,583	650	2,834	1,775	1,512	510	2,129	1,002
100-year	46,652	3,493	49,467	5,734	37,218	2,289	39,133	4,211
400-year	51,671	38,149	53,124	39,402	40,614	32,015	41,659	32,912
1,000-year	53,208	42,170	54,188	43,093	41,777	35,034	42,556	35,646
2,000-year	53,965	43,451	54,716	44,242	42,386	35,961	42,963	36,479

Note: Present Value costs and Annual Equivalent numbers are calculated for the period from 2010 to 2075 at common base year 2025 using a 4.78% Federal discount rate. All dollar metrics are based on 2007 price levels.

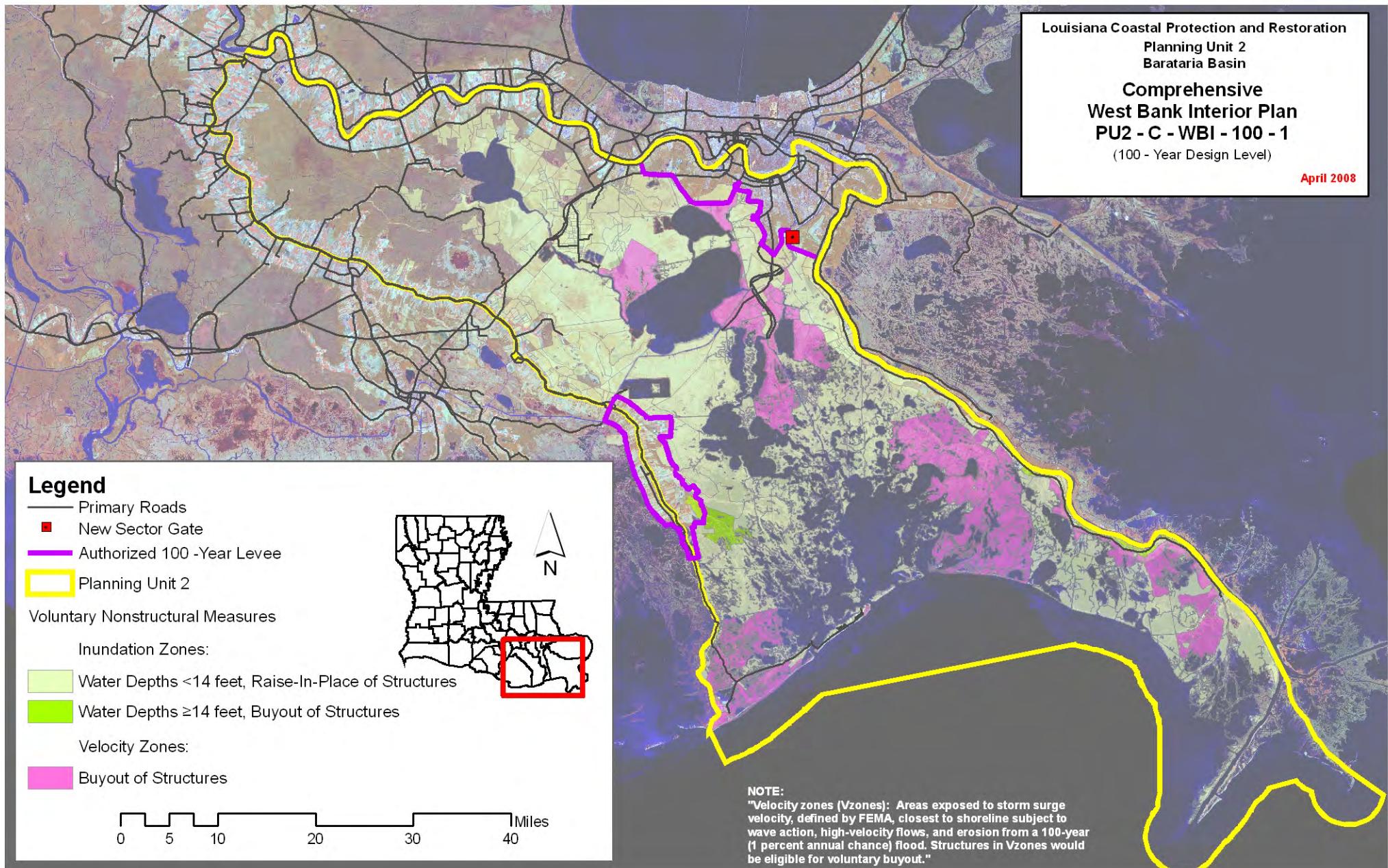
Louisiana Coastal Protection and Restoration

Planning Unit 2
Barataria Basin

Comprehensive
West Bank Interior Plan
PU2 - C - WBI - 100 - 1

(100 - Year Design Level)

April 2008



Planning Unit:	2	Alt. No.:	PU2-C-WBI-400-1	Category:	Comprehensive (Coastal+Structural+Nonstructural)
Alternative Description:	Comprehensive plan--Same coastal and structural measures as Alternative PU2-WBI-400-1 but with complementary nonstructural measures to reduce residual risk.				
Coastal Component:	R2 (pulsed diversions)		Nonstructural Component:		400-yr complementary measures
Structural Component:	Same as Alternative PU2-WBI-400-1				

Scenario	Future Conditions (Relative Sea Level Rise (RSLR) and Redevelopment Assumptions)	Uncertainty	Results by Scenario with Uncertainty Bands								
			Life Cycle Cost	Population Impacted	Residual Damages	Gross Regional Output Impacted	Employment Impacted	People's Earned Income Impacted	Archeo. Sites Protected	Historic Properties Protected	Historic Districts Protected
			Ann. Equiv. \$ Millions	Ann. Equiv. #	Ann. Equiv. \$ Millions	Ann. Equiv. \$ Millions	Ann. Equiv. #	Ann. Equiv. \$ Millions	# Sites	# Properties	# Districts
1	Low RSLR High Employment Dispersed Population	High	1,912	15,094	216	310	707	57	266	26	9
		Mid		18,072	480	721	1,930	145	213	26	9
		Low		19,210	605	869	2,337	167	160	25	8
2	High RSLR High Employment Dispersed Population	High	1,914	15,917	335	528	1,310	112	266	26	9
		Mid		18,389	531	783	2,021	154	213	25	9
		Low		19,407	662	1,019	2,575	193	160	23	8
3	Low RSLR Business-as-Usual Compact Population	High	1,997	10,433	197	278	636	49	266	26	9
		Mid		13,083	434	604	1,666	119	213	26	9
		Low		14,265	541	736	2,036	140	160	25	8
4	High RSLR Business-as-Usual Compact Population	High	2,000	11,061	293	454	1,084	91	266	26	9
		Mid		13,281	469	672	1,770	130	213	25	9
		Low		14,350	574	911	2,259	164	160	23	8

Other Results			Wetlands Created/Protected		Scenario 1	Scenario 2	Scenario 3	Scenario 4
Construction Time (years)			After 50 yrs (% of baseline)		103	99	103	99
Direct Wetland Impacts (acres)			After 100 yrs (% of baseline)		110	104	110	104
Indirect Impacts (unitless)			Present Value of Life Cycle Costs (\$ Millions)					
Spatial Integrity (unitless)			Coastal Component		15,657	15,689	15,657	15,689
Non-Federal Share of Present Value of Life Cycle Costs	Scenario	(\$ Millions)		Nonstructural Component		3,491	3,491	5,161
	1 / 2	13,686	13,705	Structural Component		18,294	18,319	18,294
	3 / 4	14,270	14,290	Total Project		37,442	37,499	39,112

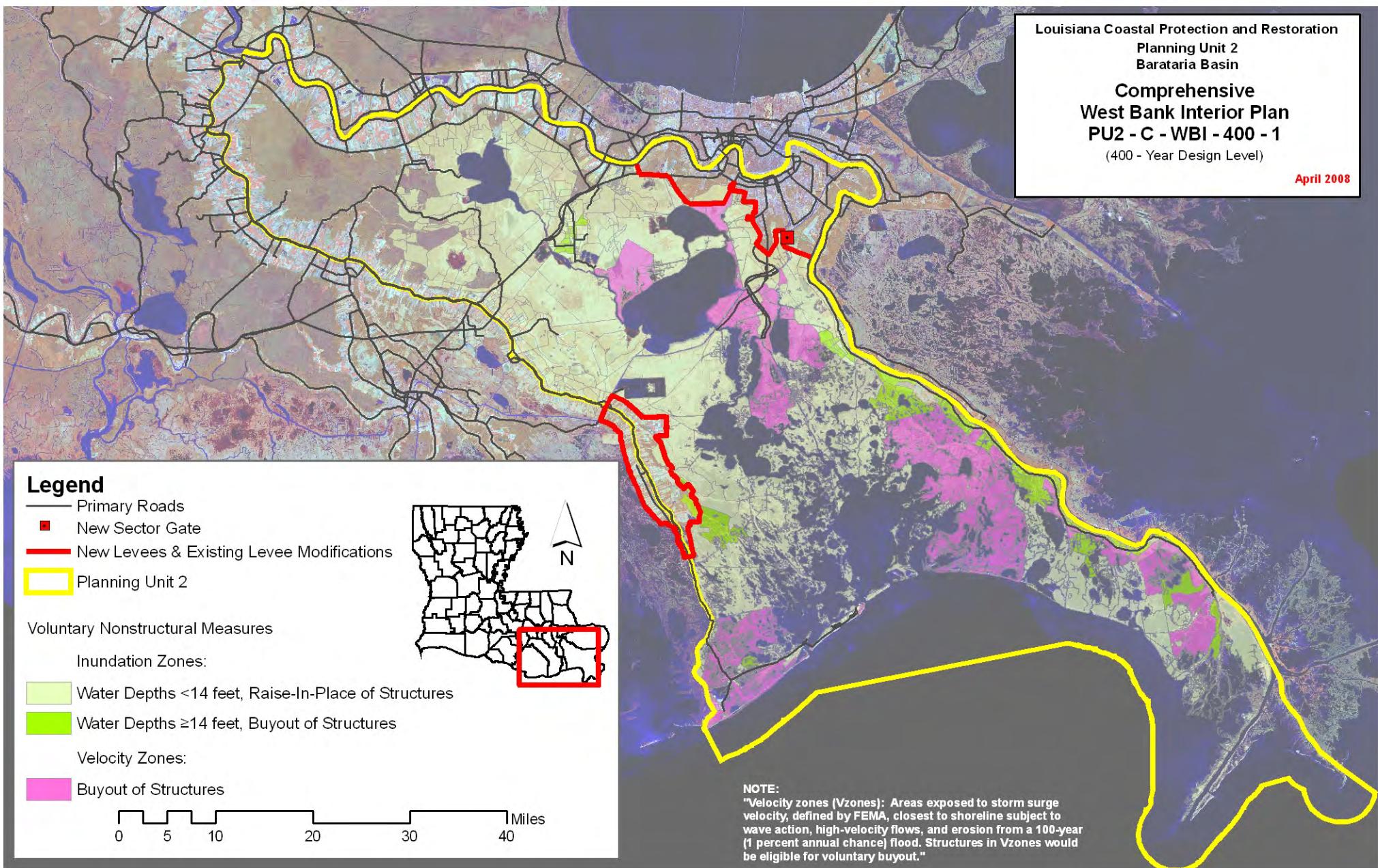
2075 Residual Risk / Damages - Low Uncertainty (\$ Millions)								Planning Unit 2 Comprehensive Plan West Bank Alt 400-year Design	
Frequency	Scenario 1		Scenario 2		Scenario 3		Scenario 4		
	No Action	With Proj							
10-year	1,583	351	2,834	672	1,512	296	2,129	490	
100-year	46,652	629	49,467	1,933	37,218	547	39,133	1,145	
400-year	51,671	3,900	53,124	5,889	40,614	2,673	41,659	4,409	
1,000-year	53,208	10,662	54,188	12,005	41,777	8,317	42,556	9,194	
2,000-year	53,965	29,791	54,716	30,867	42,386	25,438	42,963	26,219	

Note: Present Value costs and Annual Equivalent numbers are calculated for the period from 2010 to 2075 at common base year 2025 using a 4.7/8% Federal discount rate. All dollar metrics are based on 2007 price levels.

Comprehensive
West Bank Interior Plan
PU2 - C - WBI - 400 - 1

(400 - Year Design Level)

April 2008



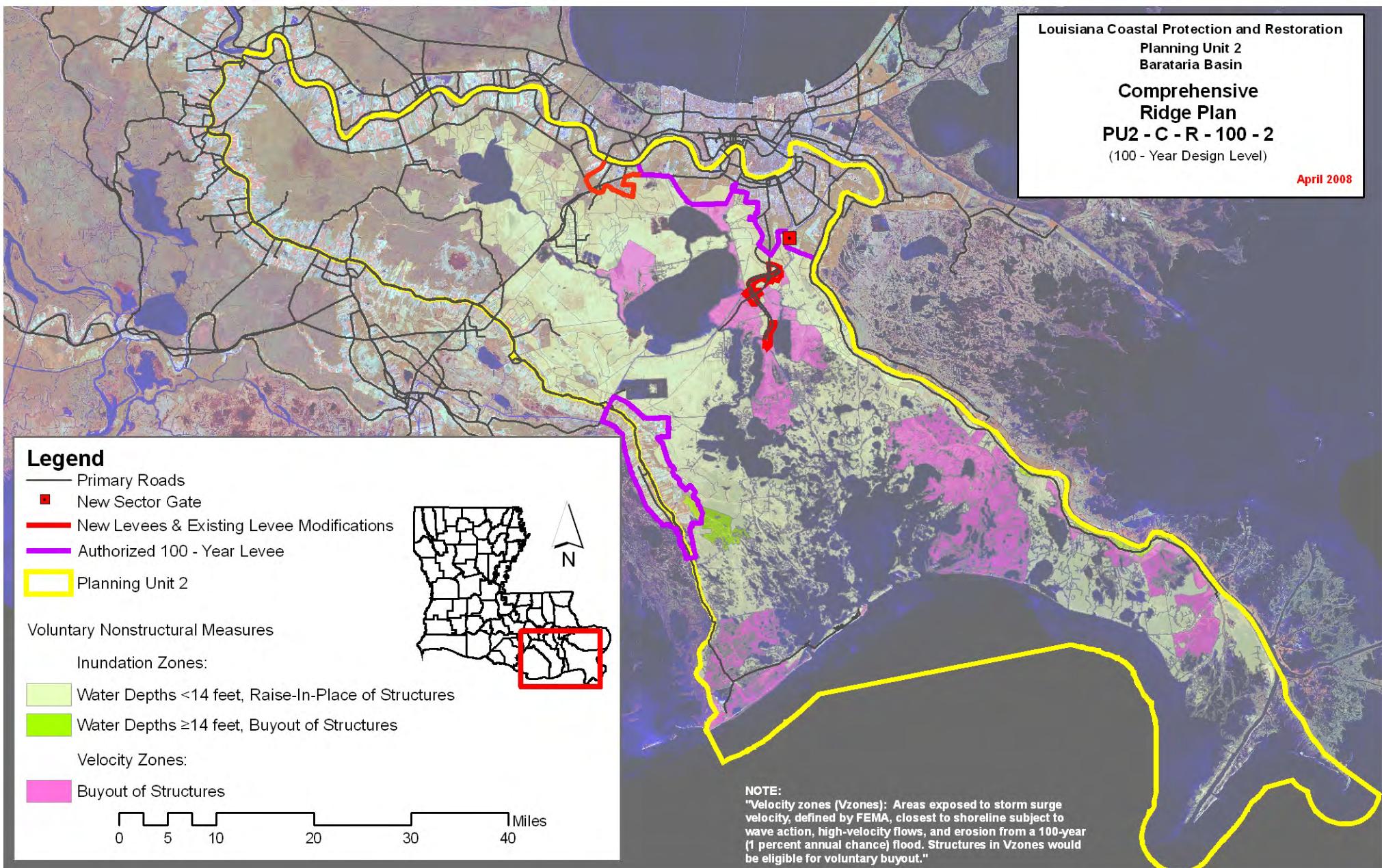
Planning Unit:	2	Alt. No.:	PU2-C-R-100-2	Category:	Comprehensive (Coastal+Structural+Nonstructural)
Alternative Description:	Comprehensive plan--Same coastal and structural measures as Alternative PU2-R-100-2 but with complementary nonstructural measures to reduce residual risk.				
Coastal Component:	R2 (pulsed diversions)		Nonstructural Component:		100-yr complementary measures
Structural Component:	Same as Alternative PU2-R-100-2				

Scenario	Future Conditions (Relative Sea Level Rise (RSLR) and Redevelopment Assumptions)	Uncertainty	Results by Scenario with Uncertainty Bands								
			Life Cycle Cost	Population Impacted	Residual Damages	Gross Regional Output Impacted	Employment Impacted	People's Earned Income Impacted	Archeo. Sites Protected	Historic Properties Protected	Historic Districts Protected
			Ann. Equiv. \$ Millions	Ann. Equiv. #	Ann. Equiv. \$ Millions	Ann. Equiv. \$ Millions	Ann. Equiv. #	Ann. Equiv. \$ Millions	# Sites	# Properties	# Districts
1	Low RSLR High Employment Dispersed Population	High	1,366	14,215	229	333	758	59	449	17	8
		Mid		17,793	556	937	2,403	176	266	15	7
		Low		19,510	821	1,245	3,367	233	160	14	6
2	High RSLR High Employment Dispersed Population	High	1,370	14,942	350	594	1,408	122	449	15	7
		Mid		18,087	624	987	2,503	185	266	14	7
		Low		19,688	886	1,302	3,493	246	160	13	6
3	Low RSLR Business-as-Usual Compact Population	High	1,368	9,506	203	289	676	50	449	17	8
		Mid		12,718	495	735	2,033	139	266	15	7
		Low		14,404	719	1,000	2,880	186	160	14	6
4	High RSLR Business-as-Usual Compact Population	High	1,371	10,036	295	478	1,106	93	449	15	7
		Mid		12,876	540	785	2,121	147	266	14	7
		Low		14,481	759	1,048	2,936	192	160	13	6

Other Results			Wetlands Created/Protected		Scenario 1	Scenario 2	Scenario 3	Scenario 4	
Construction Time (years)			After 50 yrs (% of baseline)		103	99	103	99	
Direct Wetland Impacts (acres)			After 100 yrs (% of baseline)		110	104	110	104	
Indirect Impacts (unitless)			Present Value of Life Cycle Costs (\$ Millions)						
Spatial Integrity (unitless)			Coastal Component		15,657	15,689	15,657	15,689	
Non-Federal Share of Present Value of Life Cycle Costs	Scenario		(\$ Millions)		Nonstructural Component		3,369	3,369	
	1 / 2	9,485	9,510		Structural Component		7,730	7,770	
	3 / 4	9,496	9,522		Total Project		26,756	26,828	
2075 Residual Risk / Damages - Low Uncertainty (\$ Millions)								Planning Unit 2 Comprehensive Plan Ridge Alt 100-year Design	

Frequency	Scenario 1		Scenario 2		Scenario 3		Scenario 4	
	No Action	With Proj						
10-year	1,583	361	2,834	1,205	1,512	262	2,129	469
100-year	46,652	2,783	49,467	4,430	37,218	1,637	39,133	2,977
400-year	51,671	37,566	53,124	38,571	40,614	31,510	41,659	32,136
1,000-year	53,208	41,457	54,188	42,230	41,777	34,342	42,556	34,785
2,000-year	53,965	42,668	54,716	43,327	42,386	35,178	42,963	35,544

Note: Present Value costs and Annual Equivalent numbers are calculated for the period from 2010 to 2075 at common base year 2025 using a 4.78% Federal discount rate. All dollar metrics are based on 2007 price levels.



Planning Unit:	2	Alt. No.:	PU2-C-R-400-2	Category:	Comprehensive (Coastal+Structural+Nonstructural)
Alternative Description:	Comprehensive plan--Same coastal and structural measures as Alternative PU2-R-400-2 but with complementary nonstructural measures to reduce residual risk.				
Coastal Component:	R2 (pulsed diversions)		Nonstructural Component:		400-yr complementary measures
Structural Component:	Same as Alternative PU2-R-400-2				

Scenario	Future Conditions (Relative Sea Level Rise (RSLR) and Redevelopment Assumptions)	Uncertainty	Results by Scenario with Uncertainty Bands								
			Life Cycle Cost	Population Impacted	Residual Damages	Gross Regional Output Impacted	Employment Impacted	People's Earned Income Impacted	Archeo. Sites Protected	Historic Properties Protected	Historic Districts Protected
			Ann. Equiv. \$ Millions	Ann. Equiv. #	Ann. Equiv. \$ Millions	Ann. Equiv. \$ Millions	Ann. Equiv. #	Ann. Equiv. \$ Millions	# Sites	# Properties	# Districts
1	Low RSLR High Employment Dispersed Population	High	2,233	14,201	226	325	750	60	266	26	9
		Mid		17,159	512	765	2,068	155	213	26	9
		Low		18,227	642	909	2,481	177	160	25	8
2	High RSLR High Employment Dispersed Population	High	2,240	15,069	353	553	1,383	119	266	26	9
		Mid		17,471	560	817	2,150	163	213	25	9
		Low		18,406	689	1,003	2,642	192	160	23	8
3	Low RSLR Business-as-Usual Compact Population	High	2,302	9,509	206	290	667	52	266	26	9
		Mid		12,110	463	626	1,767	125	213	26	9
		Low		13,199	575	751	2,130	143	160	25	8
4	High RSLR Business-as-Usual Compact Population	High	2,309	10,146	309	459	1,112	94	266	26	9
		Mid		12,279	495	677	1,853	133	213	25	9
		Low		13,277	600	834	2,251	155	160	23	8

Other Results			Wetlands Created/Protected		Scenario 1	Scenario 2	Scenario 3	Scenario 4
Construction Time (years)			After 50 yrs (% of baseline)		103	99	103	99
Direct Wetland Impacts (acres)			After 100 yrs (% of baseline)		110	104	110	104
Indirect Impacts (unitless)			Present Value of Life Cycle Costs (\$ Millions)					
Spatial Integrity (unitless)			Coastal Component		15,657	15,689	15,657	15,689
Non-Federal Share of Present Value of Life Cycle Costs	Scenario	(\$ Millions)		Nonstructural Component		2,660	2,660	4,028
	1 / 2	15,894	15,942	Structural Component		25,409	25,515	25,409
	3 / 4	16,373	16,421	Total Project		43,725	43,863	45,094

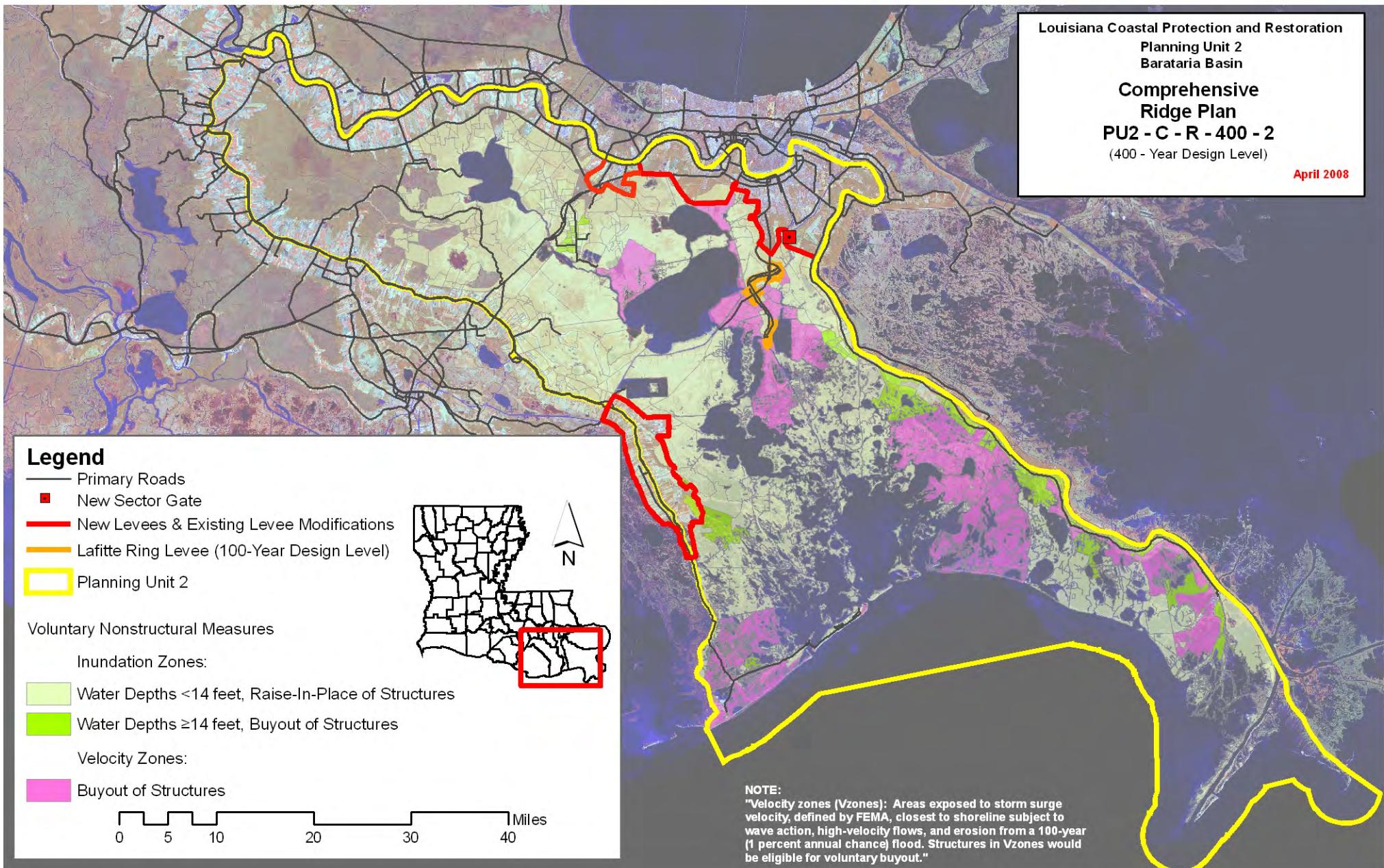
2075 Residual Risk / Damages - Low Uncertainty (\$ Millions)								Planning Unit 2 Comprehensive Plan Ridge Alt 400-year Design
Frequency	Scenario 1		Scenario 2		Scenario 3		Scenario 4	
	No Action	With Proj						
10-year	1,583	249	2,834	396	1,512	197	2,129	244
100-year	46,652	486	49,467	1,450	37,218	420	39,133	715
400-year	51,671	2,859	53,124	4,392	40,614	1,705	41,659	2,982
1,000-year	53,208	9,147	54,188	10,221	41,777	6,868	42,556	7,456
2,000-year	53,965	28,398	54,716	29,262	42,386	24,117	42,963	24,664

Note: Present Value costs and Annual Equivalent numbers are calculated for the period from 2010 to 2075 at common base year 2025 using a 4.7/8% Federal discount rate. All dollar metrics are based on 2007 price levels.

Comprehensive
Ridge Plan

PU2 - C - R - 400 - 2
(400 - Year Design Level)

April 2008



Planning Unit:	2	Alt. No.:	PU2-C-R-100-3	Category:	Comprehensive (Coastal+Structural+Nonstructural)	
Alternative Description:	Comprehensive plan--Same coastal and structural measures as Alternative PU2-R-100-3 but with complementary nonstructural measures to reduce residual risk.					
Coastal Component:	R2 (pulsed diversions)		Nonstructural Component:		100-yr complementary measures	
Structural Component:	Same as Alternative PU2-R-100-3					

Scenario	Future Conditions (Relative Sea Level Rise (RSLR) and Redevelopment Assumptions)	Uncertainty	Results by Scenario with Uncertainty Bands								
			Life Cycle Cost	Population Impacted	Residual Damages	Gross Regional Output Impacted	Employment Impacted	People's Earned Income Impacted	Archeo. Sites Protected	Historic Properties Protected	Historic Districts Protected
			Ann. Equiv. \$ Millions	Ann. Equiv. #	Ann. Equiv. \$ Millions	Ann. Equiv. \$ Millions	Ann. Equiv. #	Ann. Equiv. \$ Millions	# Sites	# Properties	# Districts
1	Low RSLR High Employment Dispersed Population	High	1,471	13,324	226	327	755	58	449	17	7
		Mid		16,902	551	918	2,368	172	266	15	7
		Low		18,650	814	1,228	3,340	228	160	14	6
2	High RSLR High Employment Dispersed Population	High	1,476	14,051	343	574	1,372	116	449	15	7
		Mid		17,197	614	968	2,469	180	266	14	7
		Low		18,828	873	1,284	3,466	242	160	13	6
3	Low RSLR Business-as-Usual Compact Population	High	1,471	8,914	203	285	679	50	449	17	7
		Mid		12,115	494	723	2,031	137	266	15	7
		Low		13,823	717	991	2,882	184	160	14	6
4	High RSLR Business-as-Usual Compact Population	High	1,475	9,443	293	466	1,099	90	449	15	7
		Mid		12,273	536	773	2,119	145	266	14	7
		Low		13,899	753	1,038	2,938	191	160	13	6

Other Results			Wetlands Created/Protected		Scenario 1	Scenario 2	Scenario 3	Scenario 4
Construction Time (years)			After 50 yrs (% of baseline)		103	99	103	99
Direct Wetland Impacts (acres)			After 100 yrs (% of baseline)		110	104	110	104
Indirect Impacts (unitless)			Present Value of Life Cycle Costs (\$ Millions)					
Spatial Integrity (unitless)			Coastal Component		15,657	15,689	15,657	15,689
Non-Federal Share of Present Value of Life Cycle Costs	Scenario	(\$ Millions)	Nonstructural Component		3,016	3,016	3,008	3,008
	1 / 2	10,245	Structural Component		10,147	10,201	10,147	10,201
	3 / 4	10,242	Total Project		28,819	28,906	28,811	28,898

2075 Residual Risk / Damages - Low Uncertainty (\$ Millions)								Planning Unit 2 Comprehensive Plan Ridge Alt 100-year Design	
Frequency	Scenario 1		Scenario 2		Scenario 3		Scenario 4		
	No Action	With Proj							
10-year	1,583	309	2,834	1,073	1,512	216	2,129	326	
100-year	46,652	2,475	49,467	3,893	37,218	1,488	39,133	2,664	
400-year	51,671	37,178	53,124	38,086	40,614	31,415	41,659	31,993	
1,000-year	53,208	41,243	54,188	41,946	41,777	34,355	42,556	34,765	
2,000-year	53,965	42,415	54,716	43,008	42,386	35,177	42,963	35,511	

Note: Present Value costs and Annual Equivalent numbers are calculated for the period from 2010 to 2075 at common base year 2025 using a 4.7/8% Federal discount rate. All dollar metrics are based on 2007 price levels.

Legend

- Primary Roads
- New Sector Gate
- New Levees & Existing Levee Modifications
- Authorized 100 - Year Levee
- Planning Unit 2

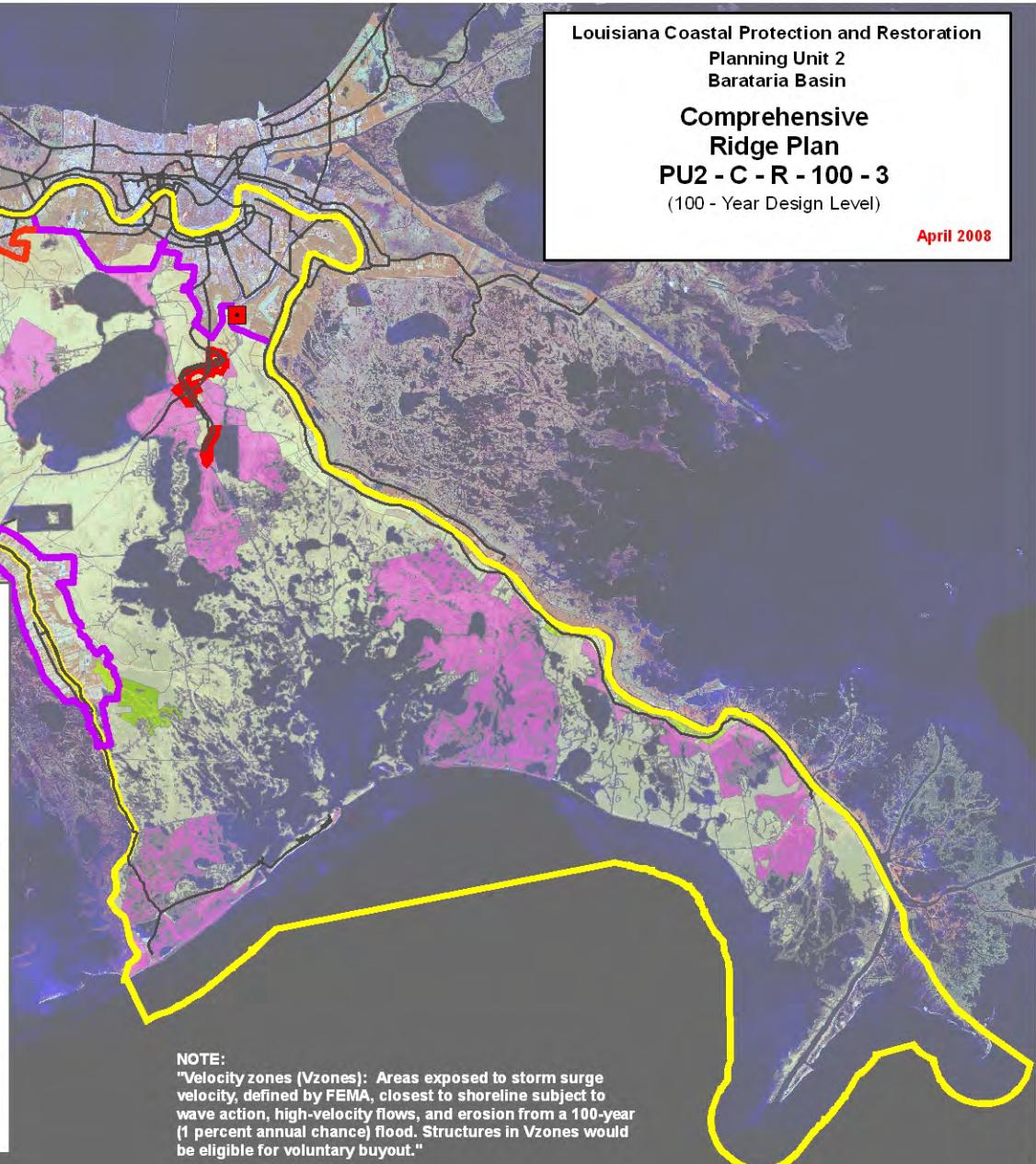
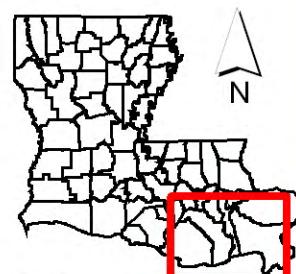
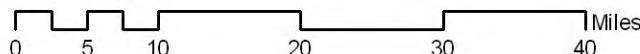
Voluntary Nonstructural Measures

Inundation Zones:

- Water Depths <14 feet, Raise-In-Place of Structures
- Water Depths ≥14 feet, Buyout of Structures

Velocity Zones:

- Buyout of Structures



NOTE:

"Velocity zones (Vzones): Areas exposed to storm surge velocity, defined by FEMA, closest to shoreline subject to wave action, high-velocity flows, and erosion from a 100-year (1 percent annual chance) flood. Structures in Vzones would be eligible for voluntary buyout."

Planning Unit:	2	Alt. No.:	PU2-C-R-400-3	Category:	Comprehensive (Coastal+Structural+Nonstructural)
Alternative Description:	Comprehensive plan--Same coastal and structural measures as Alternative PU2-R-400-3 but with complementary nonstructural measures to reduce residual risk.				
Coastal Component:	R2 (pulsed diversions)		Nonstructural Component:		400-yr complementary measures
Structural Component:	Same as Alternative PU2-R-400-3				

Scenario	Future Conditions (Relative Sea Level Rise (RSLR) and Redevelopment Assumptions)	Uncertainty	Results by Scenario with Uncertainty Bands								
			Life Cycle Cost	Population Impacted	Residual Damages	Gross Regional Output Impacted	Employment Impacted	People's Earned Income Impacted	Archeo. Sites Protected	Historic Properties Protected	Historic Districts Protected
			Ann. Equiv. \$ Millions	Ann. Equiv. #	Ann. Equiv. \$ Millions	Ann. Equiv. \$ Millions	Ann. Equiv. #	Ann. Equiv. \$ Millions	# Sites	# Properties	# Districts
1	Low RSLR High Employment Dispersed Population	High	2,373	12,988	205	289	670	52	449	26	9
		Mid		15,664	453	660	1,800	132	266	26	9
		Low		16,679	573	799	2,188	152	160	25	8
2	High RSLR High Employment Dispersed Population	High	2,381	13,715	308	477	1,181	99	449	26	9
		Mid		15,958	494	709	1,876	138	266	25	9
		Low		16,857	617	876	2,316	164	160	23	8
3	Low RSLR Business-as-Usual Compact Population	High	2,428	8,575	189	259	604	45	449	26	9
		Mid		10,933	413	543	1,557	107	266	26	9
		Low		11,975	517	662	1,899	124	160	25	8
4	High RSLR Business-as-Usual Compact Population	High	2,436	9,104	272	398	966	79	449	26	9
		Mid		11,090	440	588	1,637	114	266	25	9
		Low		12,051	539	731	2,005	135	160	23	8

Other Results			Wetlands Created/Protected		Scenario 1	Scenario 2	Scenario 3	Scenario 4
Construction Time (years)			After 50 yrs (% of baseline)		103	99	103	99
Direct Wetland Impacts (acres)			After 100 yrs (% of baseline)		110	104	110	104
Indirect Impacts (unitless)			Present Value of Life Cycle Costs (\$ Millions)					
Spatial Integrity (unitless)			Coastal Component		15,657	15,689	15,657	15,689
Non-Federal Share of Present Value of Life Cycle Costs	Scenario	(\$ Millions)	Nonstructural Component		2,510	2,510	3,578	3,578
	1 / 2	16,844	Structural Component		28,318	28,440	28,318	28,440
	3 / 4	17,218	Total Project		46,485	46,638	47,553	47,707

2075 Residual Risk / Damages - Low Uncertainty (\$ Millions)								Planning Unit 2 Comprehensive Plan Ridge Alt 400-year Design	
Frequency	Scenario 1		Scenario 2		Scenario 3		Scenario 4		
	No Action	With Proj							
10-year	1,583	226	2,834	366	1,512	181	2,129	221	
100-year	46,652	444	49,467	1,354	37,218	386	39,133	661	
400-year	51,671	2,584	53,124	3,923	40,614	1,530	41,659	2,680	
1,000-year	53,208	8,675	54,188	9,604	41,777	6,565	42,556	7,072	
2,000-year	53,965	27,832	54,716	28,595	42,386	23,767	42,963	24,256	

Note: Present Value costs and Annual Equivalent numbers are calculated for the period from 2010 to 2075 at common base year 2025 using a 4.78% Federal discount rate. All dollar metrics are based on 2007 price levels.

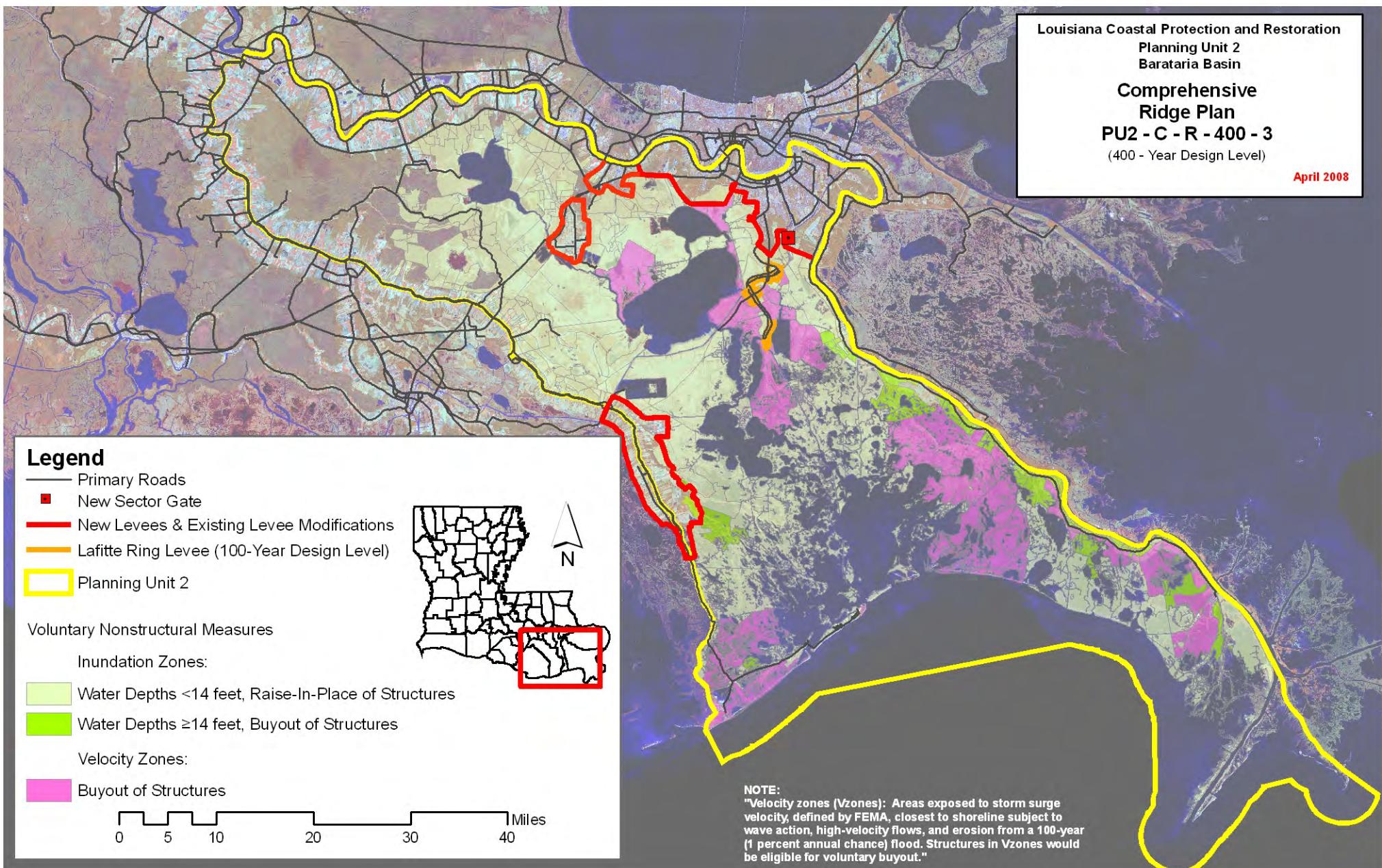
Comprehensive

Ridge Plan

PU2 - C - R - 400 - 3

(400 - Year Design Level)

April 2008



Planning Unit:	2	Alt. No.:	PU2-C-R-100-4	Category:	Comprehensive (Coastal+Structural+Nonstructural)
Alternative Description:	Comprehensive plan--Same coastal and structural measures as Alternative PU2-R-100-4 but with complementary nonstructural measures to reduce residual risk.				
Coastal Component:	R2 (pulsed diversions)		Nonstructural Component:		100-yr complementary measures
Structural Component:	Same as Alternative PU2-R-100-4				

Scenario	Future Conditions (Relative Sea Level Rise (RSLR) and Redevelopment Assumptions)	Uncertainty	Results by Scenario with Uncertainty Bands								
			Life Cycle Cost	Population Impacted	Residual Damages	Gross Regional Output Impacted	Employment Impacted	People's Earned Income Impacted	Archeo. Sites Protected	Historic Properties Protected	Historic Districts Protected
			Ann. Equiv. \$ Millions	Ann. Equiv. #	Ann. Equiv. \$ Millions	Ann. Equiv. \$ Millions	Ann. Equiv. #	Ann. Equiv. \$ Millions	# Sites	# Properties	# Districts
1	Low RSLR High Employment Dispersed Population	High	1,626	12,971	226	321	752	57	277	17	8
		Mid		16,497	549	878	2,332	167	224	15	7
		Low		18,217	810	1,185	3,307	223	171	14	6
2	High RSLR High Employment Dispersed Population	High	1,631	13,650	340	530	1,334	111	277	15	7
		Mid		16,755	608	913	2,411	173	224	14	7
		Low		18,371	866	1,234	3,424	235	171	13	6
3	Low RSLR Business-as-Usual Compact Population	High	1,627	8,445	202	277	669	48	277	17	8
		Mid		11,604	491	680	1,969	130	224	15	7
		Low		13,231	709	944	2,817	176	171	14	6
4	High RSLR Business-as-Usual Compact Population	High	1,632	8,945	289	417	1,031	82	277	15	7
		Mid		11,741	525	713	2,035	136	224	14	7
		Low		13,296	737	977	2,861	181	171	13	6

Other Results			Wetlands Created/Protected		Scenario 1	Scenario 2	Scenario 3	Scenario 4
Construction Time (years)			After 50 yrs (% of baseline)		103	99	103	99
Direct Wetland Impacts (acres)			After 100 yrs (% of baseline)		110	104	110	104
Indirect Impacts (unitless)			Present Value of Life Cycle Costs (\$ Millions)					
Spatial Integrity (unitless)			Coastal Component		15,657	15,689	15,657	15,689
Non-Federal Share of Present Value of Life Cycle Costs	Scenario	(\$ Millions)	Nonstructural Component		2,838	2,838	2,866	2,866
	1 / 2	11,299	Structural Component		13,348	13,420	13,348	13,420
	3 / 4	11,309	Total Project		31,843	31,947	31,871	31,975

2075 Residual Risk / Damages - Low Uncertainty (\$ Millions)								Planning Unit 2 Comprehensive Plan Ridge Alt 100-year Design	
Frequency	Scenario 1		Scenario 2		Scenario 3		Scenario 4		
	No Action	With Proj							
10-year	1,583	288	2,834	1,034	1,512	210	2,129	308	
100-year	46,652	2,293	49,467	3,554	37,218	1,177	39,133	1,963	
400-year	51,671	36,990	53,124	37,779	40,614	30,738	41,659	31,163	
1,000-year	53,208	40,879	54,188	41,462	41,777	33,481	42,556	33,744	
2,000-year	53,965	41,942	54,716	42,447	42,386	34,174	42,963	34,395	

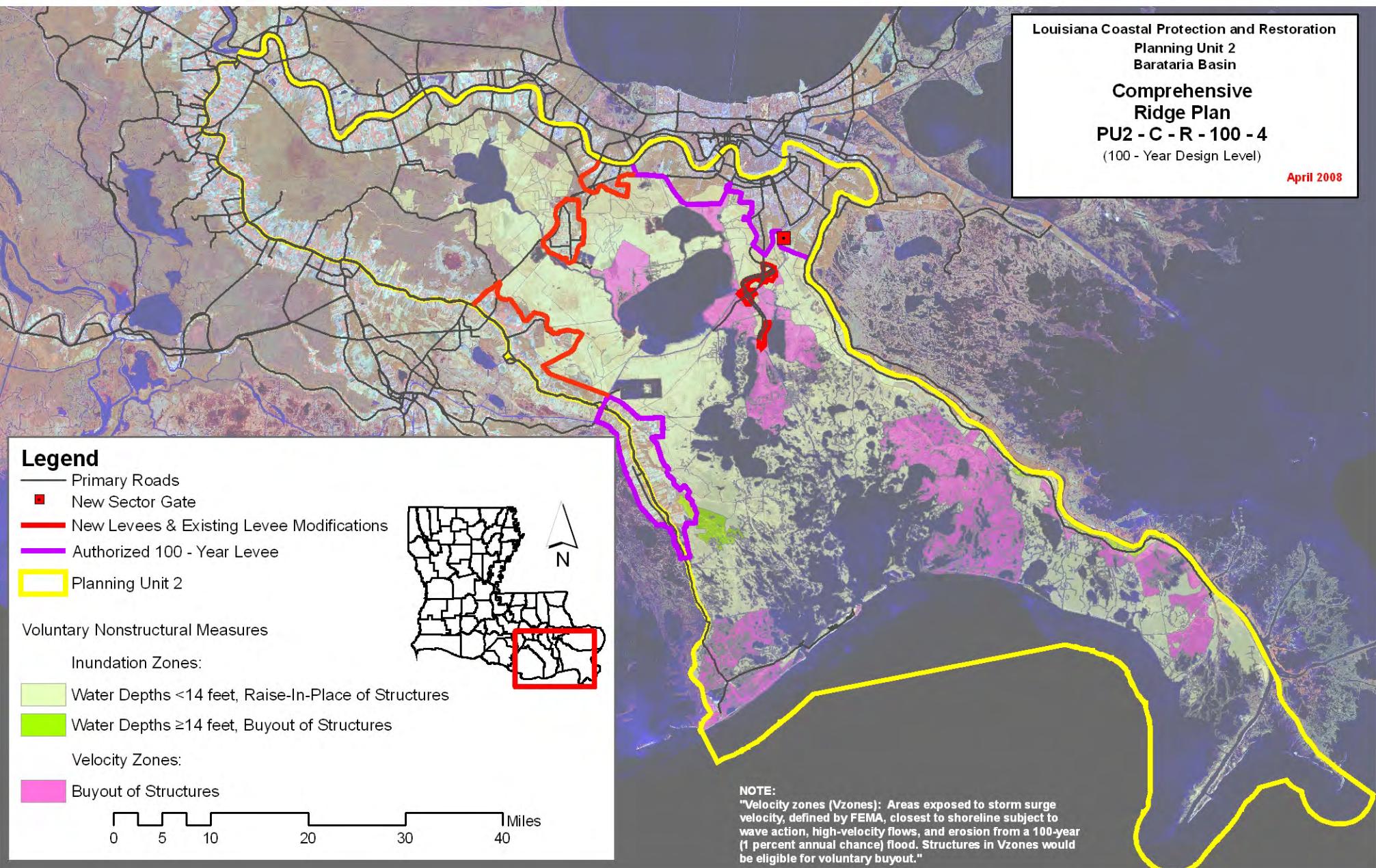
Note: Present Value costs and Annual Equivalent numbers are calculated for the period from 2010 to 2075 at common base year 2025 using a 4 7/8% Federal discount rate. All dollar metrics are based on 2007 price levels.

Comprehensive
Ridge Plan

PU2 - C - R - 100 - 4

(100 - Year Design Level)

April 2008



Planning Unit:	2	Alt. No.:	PU2-C-R-400-4	Category:	Comprehensive (Coastal+Structural+Nonstructural)
Alternative Description:	Comprehensive plan--Same coastal and structural measures as Alternative PU2-R-400-4 but with complementary nonstructural measures to reduce residual risk.				
Coastal Component:	R2 (pulsed diversions)		Nonstructural Component:		400-yr complementary measures
Structural Component:	Same as Alternative PU2-R-400-4				

Scenario	Future Conditions (Relative Sea Level Rise (RSLR) and Redevelopment Assumptions)	Uncertainty	Results by Scenario with Uncertainty Bands								
			Life Cycle Cost	Population Impacted	Residual Damages	Gross Regional Output Impacted	Employment Impacted	People's Earned Income Impacted	Archeo. Sites Protected	Historic Properties Protected	Historic Districts Protected
			Ann. Equiv. \$ Millions	Ann. Equiv. #	Ann. Equiv. \$ Millions	Ann. Equiv. \$ Millions	Ann. Equiv. #	Ann. Equiv. \$ Millions	# Sites	# Properties	# Districts
1	Low RSLR High Employment Dispersed Population	High	2,523	13,119	228	329	776	61	277	26	9
		Mid		16,002	515	765	2,098	155	224	26	9
		Low		17,014	645	910	2,522	177	171	25	8
2	High RSLR High Employment Dispersed Population	High	2,532	13,943	354	550	1,399	118	277	26	9
		Mid		16,281	560	810	2,171	162	224	25	9
		Low		17,170	689	977	2,634	188	171	23	8
3	Low RSLR Business-as-Usual Compact Population	High	2,573	8,549	208	293	692	52	277	26	9
		Mid		11,085	466	626	1,794	125	224	26	9
		Low		12,058	579	750	2,162	143	171	25	8
4	High RSLR Business-as-Usual Compact Population	High	2,582	9,160	310	454	1,124	92	277	26	9
		Mid		11,235	496	668	1,864	132	224	25	9
		Low		12,125	600	802	2,236	150	171	23	8

Other Results			Wetlands Created/Protected		Scenario 1	Scenario 2	Scenario 3	Scenario 4
Construction Time (years)			13		After 50 yrs (% of baseline)	103	99	103
Direct Wetland Impacts (acres)			5,300		After 100 yrs (% of baseline)	110	104	104
Indirect Impacts (unitless)			4		Present Value of Life Cycle Costs (\$ Millions)			
Spatial Integrity (unitless)			0.36		Coastal Component		15,657	15,689
Non-Federal Share of Present Value of Life Cycle Costs	Scenario		(\$ Millions)		Nonstructural Component		15,657	15,689
	1 / 2		17,844		Structural Component		2,300	2,300
	3 / 4		18,184		Total Project		31,466	31,605

2075 Residual Risk / Damages - Low Uncertainty (\$ Millions)								Planning Unit 2 Comprehensive Plan Ridge Alt 400-year Design	
Frequency	Scenario 1		Scenario 2		Scenario 3		Scenario 4		
	No Action	With Proj							
10-year	1,583	218	2,834	347	1,512	175	2,129	212	
100-year	46,652	416	49,467	1,296	37,218	354	39,133	599	
400-year	51,671	2,390	53,124	3,576	40,614	1,237	41,659	1,978	
1,000-year	53,208	8,294	54,188	9,130	41,777	5,791	42,556	6,162	
2,000-year	53,965	27,377	54,716	27,999	42,386	22,873	42,963	23,210	

Note: Present Value costs and Annual Equivalent numbers are calculated for the period from 2010 to 2075 at common base year 2025 using a 4.78% Federal discount rate. All dollar metrics are based on 2007 price levels.

Legend

- Primary Roads
- New Sector Gate
- New Levees & Existing Levee Modifications
- Lafitte Ring Levee (100-Year Design Level)
- Planning Unit 2

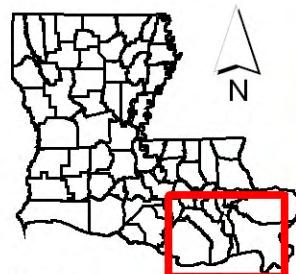
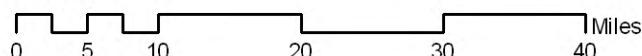
Voluntary Nonstructural Measures

Inundation Zones:

- Water Depths <14 feet, Raise-In-Place of Structures
- Water Depths ≥14 feet, Buyout of Structures

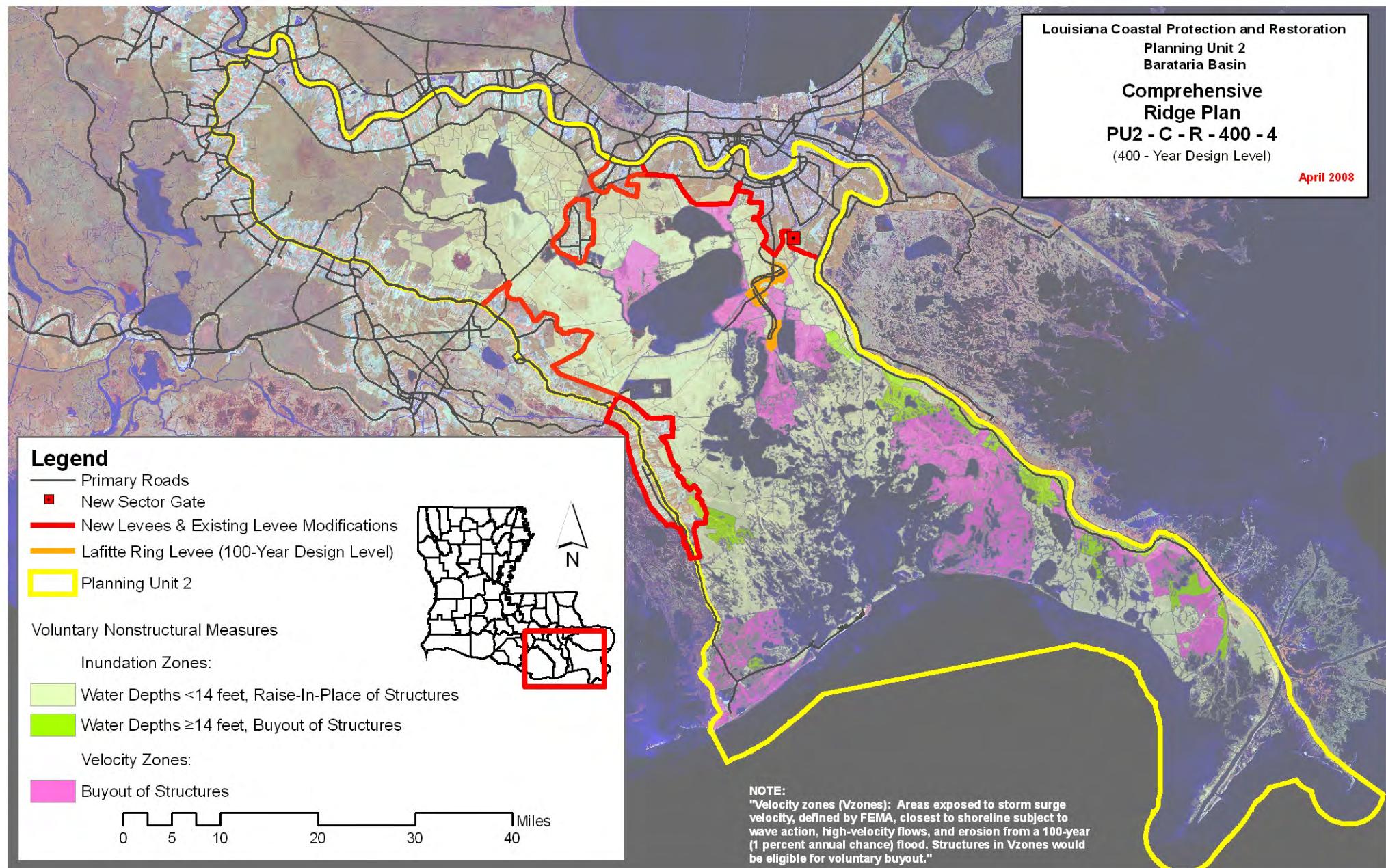
Velocity Zones:

- Buyout of Structures



NOTE:

"Velocity zones (Vzones): Areas exposed to storm surge velocity, defined by FEMA, closest to shoreline subject to wave action, high-velocity flows, and erosion from a 100-year (1 percent annual chance) flood. Structures in Vzones would be eligible for voluntary buyout."



Planning Unit:	2	Alt. No.:	PU2-C-R-1000-4	Category:	Comprehensive (Coastal+Structural+Nonstructural)
Alternative Description:	Comprehensive plan--Same coastal and structural measures as Alternative PU2-R-1000-4 but with complementary nonstructural measures to reduce residual risk.				
Coastal Component:	R2 (pulsed diversions)		Nonstructural Component:		1000-yr complementary measures
Structural Component:	Same as Alternative PU2-R-1000-4				

Scenario	Future Conditions (Relative Sea Level Rise (RSLR) and Redevelopment Assumptions)	Uncertainty	Results by Scenario with Uncertainty Bands								
			Life Cycle Cost	Population Impacted	Residual Damages	Gross Regional Output Impacted	Employment Impacted	People's Earned Income Impacted	Archeo. Sites Protected	Historic Properties Protected	Historic Districts Protected
			Ann. Equiv. \$ Millions	Ann. Equiv. #	Ann. Equiv. \$ Millions	Ann. Equiv. \$ Millions	Ann. Equiv. #	Ann. Equiv. \$ Millions	# Sites	# Properties	# Districts
1	Low RSLR High Employment Dispersed Population	High	2,943	12,903	225	329	776	61	277	26	9
		Mid		15,761	509	758	2,084	154	224	26	9
		Low		16,628	626	886	2,462	172	171	25	8
2	High RSLR High Employment Dispersed Population	High	2,976	13,727	349	543	1,389	117	277	26	9
		Mid		16,040	551	797	2,152	160	224	26	9
		Low		16,784	660	937	2,548	182	171	23	8
3	Low RSLR Business-as-Usual Compact Population	High	2,975	8,511	205	293	692	52	277	26	9
		Mid		11,021	462	623	1,788	125	224	26	9
		Low		11,856	565	732	2,110	140	171	25	8
4	High RSLR Business-as-Usual Compact Population	High	3,007	9,121	307	450	1,114	92	277	26	9
		Mid		11,172	490	661	1,854	131	224	26	9
		Low		11,922	584	778	2,170	146	171	23	8

Other Results			Wetlands Created/Protected		Scenario 1	Scenario 2	Scenario 3	Scenario 4
Construction Time (years)			After 50 yrs (% of baseline)		103	99	103	99
Direct Wetland Impacts (acres)			After 100 yrs (% of baseline)		110	104	110	104
Indirect Impacts (unitless)			Present Value of Life Cycle Costs (\$ Millions)					
Spatial Integrity (unitless)			Coastal Component		15,657	15,689	15,657	15,689
Non-Federal Share of Present Value of Life Cycle Costs	Scenario	(\$ Millions)	Nonstructural Component		2,815	2,815	3,436	3,436
	1 / 2	20,758	Structural Component		39,174	39,774	39,174	39,774
	3 / 4	20,975	Total Project		57,646	58,277	58,267	58,899

2075 Residual Risk / Damages - Low Uncertainty (\$ Millions)								Planning Unit 2 Comprehensive Plan Ridge Alt 1000-year Design	
Frequency	Scenario 1		Scenario 2		Scenario 3		Scenario 4		
	No Action	With Proj							
10-year	1,583	190	2,834	291	1,512	164	2,129	188	
100-year	46,652	336	49,467	607	37,218	300	39,133	444	
400-year	51,671	666	53,124	1,942	40,614	488	41,659	979	
1,000-year	53,208	2,264	54,188	3,423	41,777	1,254	42,556	1,945	
2,000-year	53,965	4,415	54,716	5,716	42,386	2,978	42,963	3,363	

Note: Present Value costs and Annual Equivalent numbers are calculated for the period from 2010 to 2075 at common base year 2025 using a 4 7/8% Federal discount rate. All dollar metrics are based on 2007 price levels.

Legend

- Primary Roads
- New Sector Gate
- New Levees & Existing Levee Modifications
- Lafitte Ring Levee (100-Year Design Level)
- Planning Unit 2

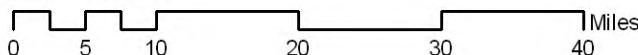
Voluntary Nonstructural Measures

Inundation Zones:

- Water Depths <14 feet, Raise-In-Place of Structures
- Water Depths ≥14 feet, Buyout of Structures

Velocity Zones:

- Buyout of Structures



NOTE:

"Velocity zones (Vzones): Areas exposed to storm surge velocity, defined by FEMA, closest to shoreline subject to wave action, high-velocity flows, and erosion from a 100-year (1 percent annual chance) flood. Structures in Vzones would be eligible for voluntary buyout."

Planning Unit:	2	Alt. No.:	PU2-C-G-100-1	Category:	Comprehensive (Coastal+Structural+Nonstructural)
Alternative Description:	Comprehensive plan--Same coastal and structural measures as Alternative PU2-G-100-1 but with complementary nonstructural measures to reduce residual risk.				
Coastal Component:	R2 (pulsed diversions)		Nonstructural Component:		100-yr complementary measures
Structural Component:	Same as Alternative PU2-G-100-1				

Scenario	Future Conditions (Relative Sea Level Rise (RSLR) and Redevelopment Assumptions)	Uncertainty	Results by Scenario with Uncertainty Bands								
			Life Cycle Cost	Population Impacted	Residual Damages	Gross Regional Output Impacted	Employment Impacted	People's Earned Income Impacted	Archeo. Sites Protected	Historic Properties Protected	Historic Districts Protected
			Ann. Equiv. \$ Millions	Ann. Equiv. #	Ann. Equiv. \$ Millions	Ann. Equiv. \$ Millions	Ann. Equiv. #	Ann. Equiv. \$ Millions	# Sites	# Properties	# Districts
1	Low RSLR High Employment Dispersed Population	High	1,343	14,977	232	330	747	58	502	26	9
		Mid		17,773	495	751	2,062	148	449	26	9
		Low		19,020	633	984	2,558	176	396	24	8
2	High RSLR High Employment Dispersed Population	High	1,352	15,799	355	638	1,396	116	502	26	9
		Mid		18,099	562	882	2,203	161	449	26	9
		Low		19,250	697	1,044	2,693	188	396	23	8
3	Low RSLR Business-as-Usual Compact Population	High	1,347	10,008	211	294	676	51	502	26	9
		Mid		12,546	449	611	1,778	120	449	26	9
		Low		13,727	569	791	2,201	143	396	24	8
4	High RSLR Business-as-Usual Compact Population	High	1,356	10,671	311	518	1,152	93	502	26	9
		Mid		12,812	496	749	1,943	136	449	26	9
		Low		13,899	608	920	2,388	161	396	23	8

Other Results			Wetlands Created/Protected		Scenario 1	Scenario 2	Scenario 3	Scenario 4	
Construction Time (years)			After 50 yrs (% of baseline)		103	99	103	99	
Direct Wetland Impacts (acres)			After 100 yrs (% of baseline)		110	104	110	104	
Indirect Impacts (unitless)			Present Value of Life Cycle Costs (\$ Millions)						
Spatial Integrity (unitless)			Coastal Component		15,657	15,689	15,657	15,689	
Non-Federal Share of Present Value of Life Cycle Costs	Scenario		Nonstructural Component		3,053	3,053	3,128	3,128	
	1 / 2	9,356	9,417	Structural Component		7,604	7,748	7,604	7,748
	3 / 4	9,382	9,443	Total Project		26,315	26,490	26,389	26,565

2075 Residual Risk / Damages - Low Uncertainty (\$ Millions)								Planning Unit 2 Comprehensive Plan GIWW Alt 100-year Design	
Frequency	Scenario 1		Scenario 2		Scenario 3		Scenario 4		
	No Action	With Proj							
10-year	1,583	702	2,834	1,209	1,512	586	2,129	888	
100-year	46,652	2,148	49,467	4,027	37,218	1,748	39,133	2,871	
400-year	51,671	6,471	53,124	8,140	40,614	4,781	41,659	5,812	
1,000-year	53,208	11,684	54,188	13,014	41,777	8,052	42,556	8,754	
2,000-year	53,965	13,601	54,716	14,559	42,386	9,115	42,963	9,812	

Note: Present Value costs and Annual Equivalent numbers are calculated for the period from 2010 to 2075 at common base year 2025 using a 4.7/8% Federal discount rate. All dollar metrics are based on 2007 price levels.

Comprehensive
GIWW Plan
PU2 - C - G - 100 - 1
(100 - Year Design Level)

April 2008

Legend

- Primary Roads
- New Sector Gate
- New Levees & Existing Levee Modifications
- Authorized 100 - Year Levee
- Weir
- Other Considerations
- Planning Unit 2

Voluntary Nonstructural Measures

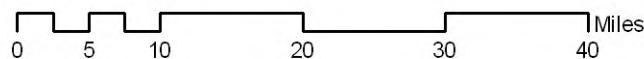
Inundation Zones:

- Water Depths <14 feet, Raise-In-Place of Structures
- Water Depths ≥14 feet, Buyout of Structures



Velocity Zones:

- Buyout of Structures



NOTE:

"Velocity zones (Vzones): Areas exposed to storm surge velocity, defined by FEMA, closest to shoreline subject to wave action, high-velocity flows, and erosion from a 100-year (1 percent annual chance) flood. Structures in Vzones would be eligible for voluntary buyout."

Planning Unit:	2	Alt. No.:	PU2-C-G-100-4	Category:	Comprehensive (Coastal+Structural+Nonstructural)
Alternative Description:	Comprehensive plan--Same coastal and structural measures as Alternative PU2-G-100-4 but with complementary nonstructural measures to reduce residual risk.				
Coastal Component:	R2 (pulsed diversions)		Nonstructural Component:		100-yr complementary measures
Structural Component:	Same as Alternative PU2-G-100-4				

Scenario	Future Conditions (Relative Sea Level Rise (RSLR) and Redevelopment Assumptions)	Uncertainty	Results by Scenario with Uncertainty Bands								
			Life Cycle Cost	Population Impacted	Residual Damages	Gross Regional Output Impacted	Employment Impacted	People's Earned Income Impacted	Archeo. Sites Protected	Historic Properties Protected	Historic Districts Protected
			Ann. Equiv. \$ Millions	Ann. Equiv. #	Ann. Equiv. \$ Millions	Ann. Equiv. \$ Millions	Ann. Equiv. #	Ann. Equiv. \$ Millions	# Sites	# Properties	# Districts
1	Low RSLR High Employment Dispersed Population	High	1,671	12,898	218	315	713	54	502	26	9
		Mid		15,549	477	716	1,986	140	449	26	9
		Low		16,755	611	945	2,484	168	396	24	8
2	High RSLR High Employment Dispersed Population	High	1,682	13,607	327	591	1,278	106	502	26	9
		Mid		15,789	528	822	2,059	148	449	26	9
		Low		16,924	658	980	2,543	174	396	23	8
3	Low RSLR Business-as-Usual Compact Population	High	1,673	8,213	198	206	635	46	502	26	9
		Mid		10,604	433	348	1,708	113	449	26	9
		Low		11,692	550	645	2,125	135	396	24	8
4	High RSLR Business-as-Usual Compact Population	High	1,684	8,734	286	471	1,036	84	502	26	9
		Mid		10,750	465	659	1,779	121	449	26	9
		Low		11,794	575	790	2,182	141	396	23	8

Other Results			Wetlands Created/Protected		Scenario 1	Scenario 2	Scenario 3	Scenario 4	
Construction Time (years)			After 50 yrs (% of baseline)		103	99	103	99	
Direct Wetland Impacts (acres)			After 100 yrs (% of baseline)		110	104	110	104	
Indirect Impacts (unitless)			Present Value of Life Cycle Costs (\$ Millions)						
Spatial Integrity (unitless)			Coastal Component		15,657	15,689	15,657	15,689	
Non-Federal Share of Present Value of Life Cycle Costs	Scenario		Nonstructural Component		2,559	2,559	2,599	2,599	
	1 / 2	11,722	11,795	Structural Component		14,521	14,700	14,521	14,700
	3 / 4	11,736	11,809	Total Project		32,737	32,948	32,777	32,988

2075 Residual Risk / Damages - Low Uncertainty (\$ Millions)								Planning Unit 2 Comprehensive Plan GIWW Alt 100-year Design	
Frequency	Scenario 1		Scenario 2		Scenario 3		Scenario 4		
	No Action	With Proj							
10-year	1,583	336	2,834	611	1,512	220	2,129	303	
100-year	46,652	1,396	49,467	2,674	37,218	1,092	39,133	1,672	
400-year	51,671	5,785	53,124	6,754	40,614	4,345	41,659	4,800	
1,000-year	53,208	10,537	54,188	11,352	41,777	7,286	42,556	7,551	
2,000-year	53,965	12,167	54,716	12,656	42,386	8,132	42,963	8,353	

Note: Present Value costs and Annual Equivalent numbers are calculated for the period from 2010 to 2075 at common base year 2025 using a 4.7/8% Federal discount rate. All dollar metrics are based on 2007 price levels.

Comprehensive
GIWW Plan
PU2 - C - G - 100 - 4
(100 - Year Design Level)

April 2008

Legend

- Primary Roads
- New Sector Gate
- New Levees & Existing Levee Modifications
- Authorized 100 - Year Levee
- Weir
- Other Considerations
- Planning Unit 2

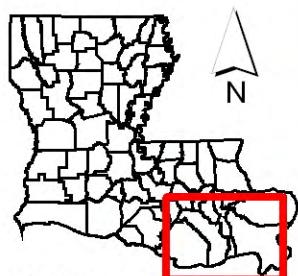
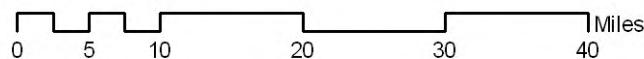
Voluntary Nonstructural Measures

Inundation Zones:

- Water Depths <14 feet, Raise-In-Place of Structures
- Water Depths ≥14 feet, Buyout of Structures

Velocity Zones:

- Buyout of Structures



N

NOTE:

"Velocity zones (Vzones): Areas exposed to storm surge velocity, defined by FEMA, closest to shoreline subject to wave action, high-velocity flows, and erosion from a 100-year (1 percent annual chance) flood. Structures in Vzones would be eligible for voluntary buyout."

Planning Unit:	2	Alt. No.:	PU2-C-G-400-4	Category:	Comprehensive (Coastal+Structural+Nonstructural)
Alternative Description:	Comprehensive plan--Same coastal and structural measures as Alternative PU2-G-400-4 but with complementary nonstructural measures to reduce residual risk.				
Coastal Component:	R2 (pulsed diversions)		Nonstructural Component:		400-yr complementary measures
Structural Component:	Same as Alternative PU2-G-400-4				

Scenario	Future Conditions (Relative Sea Level Rise (RSLR) and Redevelopment Assumptions)	Uncertainty	Results by Scenario with Uncertainty Bands								
			Life Cycle Cost	Population Impacted	Residual Damages	Gross Regional Output Impacted	Employment Impacted	People's Earned Income Impacted	Archeo. Sites Protected	Historic Properties Protected	Historic Districts Protected
			Ann. Equiv. \$ Millions	Ann. Equiv. #	Ann. Equiv. \$ Millions	Ann. Equiv. \$ Millions	Ann. Equiv. #	Ann. Equiv. \$ Millions	# Sites	# Properties	# Districts
1	Low RSLR High Employment Dispersed Population	High	2,691	13,140	234	336	781	61	502	27	9
		Mid		15,847	521	768	2,097	155	449	27	9
		Low		16,772	644	899	2,492	174	396	25	8
2	High RSLR High Employment Dispersed Population	High	2,700	13,960	363	567	1,406	119	502	27	9
		Mid		16,089	571	814	2,176	162	449	27	9
		Low		16,922	687	1,015	2,590	185	396	24	8
3	Low RSLR Business-as-Usual Compact Population	High	2,726	8,471	213	298	690	52	502	27	9
		Mid		10,895	471	633	1,793	125	449	27	9
		Low		11,765	577	742	2,127	141	396	25	8
4	High RSLR Business-as-Usual Compact Population	High	2,735	9,081	317	471	1,140	94	502	27	9
		Mid		11,041	501	679	1,875	133	449	27	9
		Low		11,853	598	835	2,210	150	396	24	8

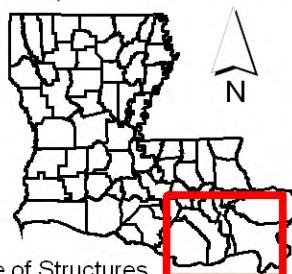
Other Results			Wetlands Created/Protected		Scenario 1	Scenario 2	Scenario 3	Scenario 4	
Construction Time (years)			After 50 yrs (% of baseline)		103	99	103	99	
Direct Wetland Impacts (acres)			After 100 yrs (% of baseline)		110	104	110	104	
Indirect Impacts (unitless)			Present Value of Life Cycle Costs (\$ Millions)						
Spatial Integrity (unitless)			Coastal Component		15,657	15,689	15,657	15,689	
Non-Federal Share of Present Value of Life Cycle Costs	Scenario		Nonstructural Component		2,302	2,302	2,988	2,988	
	1 / 2	18,964	19,022	Structural Component		34,745	34,880	34,745	34,880
	3 / 4	19,204	19,262	Total Project		52,704	52,871	53,390	53,557

2075 Residual Risk / Damages - Low Uncertainty (\$ Millions)								Planning Unit 2 Comprehensive Plan GIWW Alt 400-year Design	
Frequency	Scenario 1		Scenario 2		Scenario 3		Scenario 4		
	No Action	With Proj							
10-year	1,583	260	2,834	492	1,512	177	2,129	225	
100-year	46,652	522	49,467	1,343	37,218	412	39,133	637	
400-year	51,671	2,201	53,124	3,288	40,614	1,158	41,659	1,764	
1,000-year	53,208	3,927	54,188	4,869	41,777	1,994	42,556	2,366	
2,000-year	53,965	5,011	54,716	5,635	42,386	2,623	42,963	2,966	

Note: Present Value costs and Annual Equivalent numbers are calculated for the period from 2010 to 2075 at common base year 2025 using a 4.78% Federal discount rate. All dollar metrics are based on 2007 price levels.

Legend

- Primary Roads
- New Sector Gate
- New Levees & Existing Levee Modifications
- Lafitte Ring Levee (100 - Year Design Level)
- Weir
- Other Considerations
- Planning Unit 2



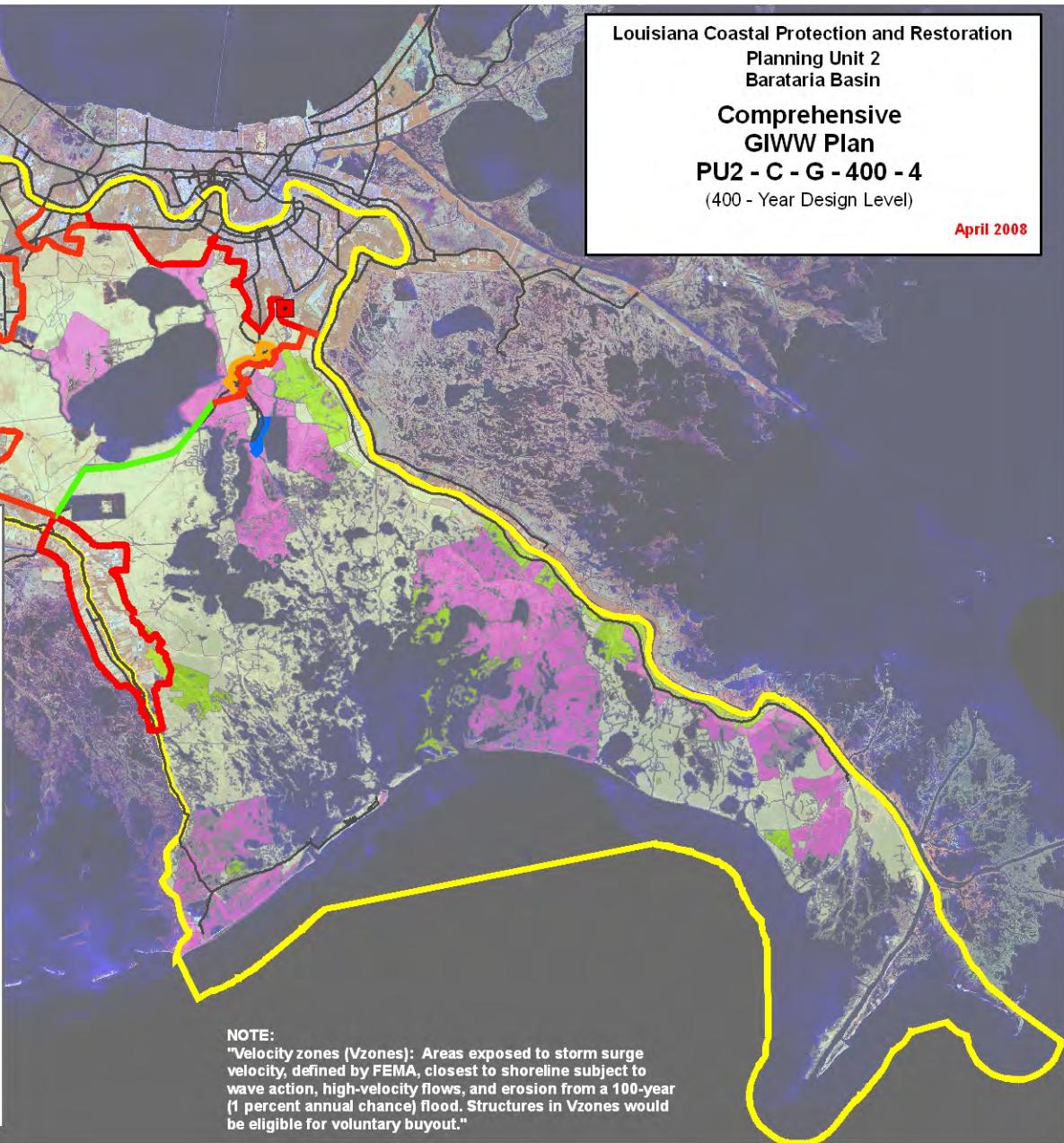
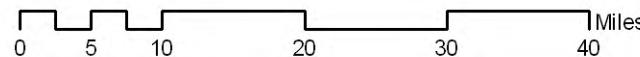
Voluntary Nonstructural Measures

Inundation Zones:

- Water Depths <14 feet, Raise-In-Place of Structures
- Water Depths ≥14 feet, Buyout of Structures

Velocity Zones:

- Buyout of Structures



Planning Unit:	2	Alt. No.:	PU2-C-G-1000-4	Category:	Comprehensive (Coastal+Structural+Nonstructural)
Alternative Description:	Comprehensive plan--Same coastal and structural measures as Alternative PU2-G-1000-4 but with complementary nonstructural measures to reduce residual risk.				
Coastal Component:	R2 (pulsed diversions)		Nonstructural Component:		1000-yr complementary measures
Structural Component:	Same as Alternative PU2-G-1000-4				

Scenario	Future Conditions (Relative Sea Level Rise (RSLR) and Redevelopment Assumptions)	Uncertainty	Results by Scenario with Uncertainty Bands								
			Life Cycle Cost	Population Impacted	Residual Damages	Gross Regional Output Impacted	Employment Impacted	People's Earned Income Impacted	Archeo. Sites Protected	Historic Properties Protected	Historic Districts Protected
			Ann. Equiv. \$ Millions	Ann. Equiv. #	Ann. Equiv. \$ Millions	Ann. Equiv. \$ Millions	Ann. Equiv. #	Ann. Equiv. \$ Millions	# Sites	# Properties	# Districts
1	Low RSLR High Employment Dispersed Population	High	3,113	12,782	228	335	780	61	502	27	9
		Mid		15,367	512	759	2,088	154	449	27	9
		Low		16,250	630	889	2,465	172	396	25	8
2	High RSLR High Employment Dispersed Population	High	3,121	13,584	355	553	1,393	117	502	27	9
		Mid		15,593	557	805	2,152	160	449	27	9
		Low		16,383	665	934	2,542	181	396	24	8
3	Low RSLR Business-as-Usual Compact Population	High	3,139	8,165	208	297	689	52	502	27	9
		Mid		10,440	465	626	1,787	125	449	27	9
		Low		11,274	568	736	2,110	139	396	25	8
4	High RSLR Business-as-Usual Compact Population	High	3,147	8,760	311	463	1,128	93	502	27	9
		Mid		10,573	493	675	1,860	132	449	27	9
		Low		11,349	586	784	2,178	147	396	24	8

Other Results			Wetlands Created/Protected		Scenario 1	Scenario 2	Scenario 3	Scenario 4
Construction Time (years)			After 50 yrs (% of baseline)		103	99	103	99
Direct Wetland Impacts (acres)			After 100 yrs (% of baseline)		110	104	110	104
Indirect Impacts (unitless)			Present Value of Life Cycle Costs (\$ Millions)					
Spatial Integrity (unitless)			Coastal Component		15,657	15,689	15,657	15,689
Non-Federal Share of Present Value of Life Cycle Costs	Scenario	(\$ Millions)	Nonstructural Component		2,981	2,981	3,492	3,492
	1 / 2	21,694	Structural Component		42,335	42,457	42,335	42,457
	3 / 4	21,872	Total Project		60,973	61,127	61,483	61,638

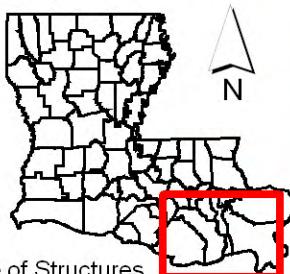
2075 Residual Risk / Damages - Low Uncertainty (\$ Millions)								Planning Unit 2 Comprehensive Plan GIWW Alt 1000-year Design	
Frequency	Scenario 1		Scenario 2		Scenario 3		Scenario 4		
	No Action	With Proj							
10-year	1,583	185	2,834	326	1,512	157	2,129	183	
100-year	46,652	323	49,467	652	37,218	280	39,133	393	
400-year	51,671	651	53,124	1,781	40,614	395	41,659	804	
1,000-year	53,208	1,926	54,188	2,856	41,777	782	42,556	1,297	
2,000-year	53,965	3,063	54,716	3,996	42,386	1,169	42,963	1,592	

Note: Present Value costs and Annual Equivalent numbers are calculated for the period from 2010 to 2075 at common base year 2025 using a 4.78% Federal discount rate. All dollar metrics are based on 2007 price levels.

April 2008

Legend

- Primary Roads
- New Sector Gate
- New Levees & Existing Levee Modifications
- Lafitte Ring Levee (100 - Year Design Level)
- Weir
- Other Considerations
- Planning Unit 2



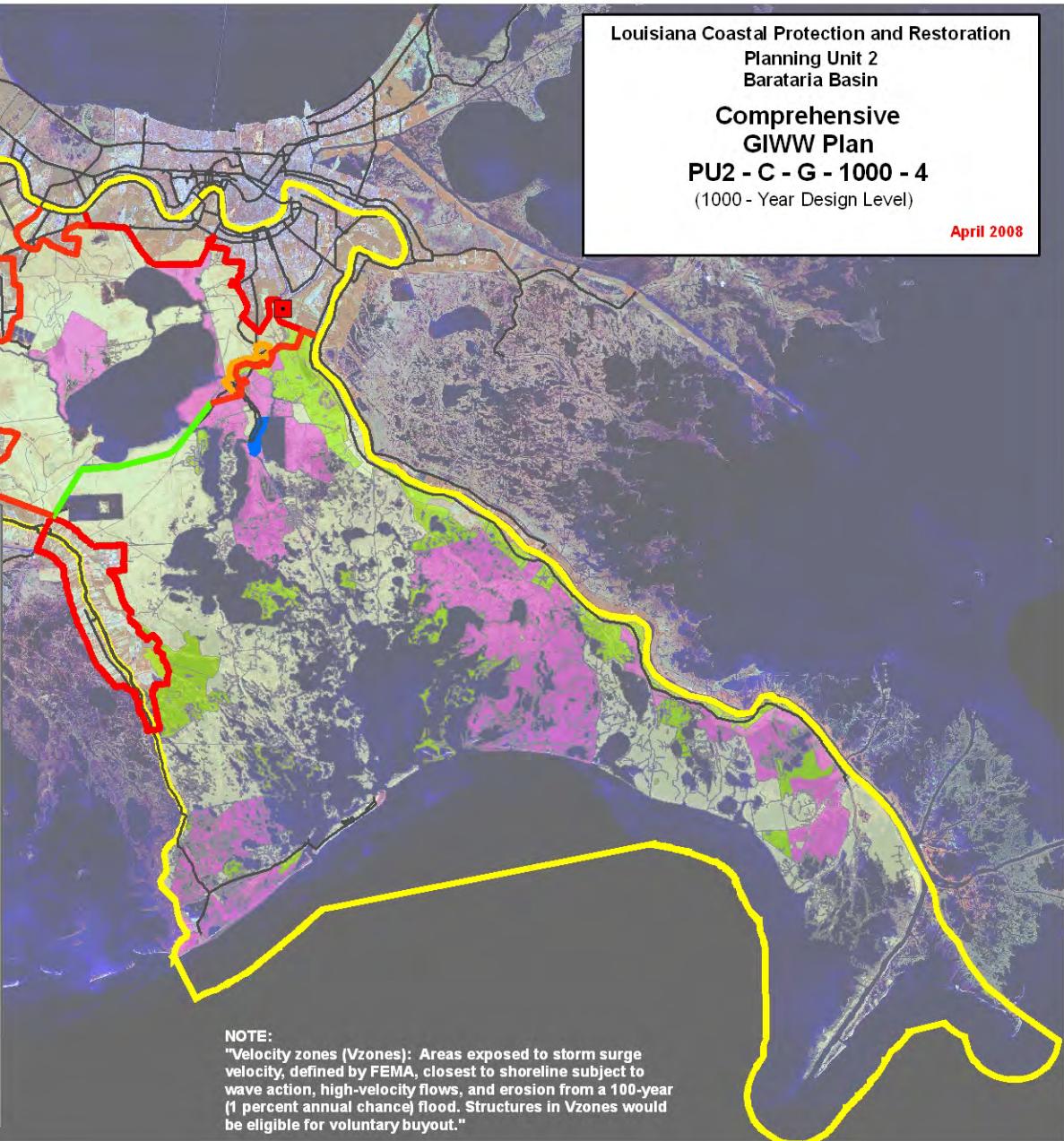
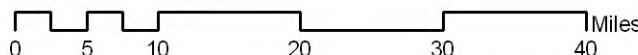
Voluntary Nonstructural Measures

Inundation Zones:

- Water Depths <14 feet, Raise-In-Place of Structures
- Water Depths ≥14 feet, Buyout of Structures

Velocity Zones:

- Buyout of Structures



**LOUISIANA COASTAL PROTECTION AND RESTORATION FINAL TECHNICAL REPORT
EVALUATION RESULTS APPENDIX**

Planning Unit 3a

Louisiana Coastal Protection and Restoration

Planning Unit 3a
East Terrebonne Basin

Water Surface Elevations
100-Year Event
2010 Base Conditions

May 2008

Planning Unit 3a

Legend

-7	3	13	23
-6	4	14	24
-5	5	15	25
-4	6	16	26
-3	7	17	27
-2	8	18	28
-1	9	19	29
0	10	20	30
1	11	21	LACP R Planning Units
2	12	22	



5 2.5 0 5 10 15 20 Miles

Louisiana Coastal Protection and Restoration

Planning Unit 3a
East Terrebonne Basin

Water Depths
100-Year Event
2010 Base Conditions

May 2008

Planning Unit 3a

Legend

0	7	14	21
1	8	15	22
2	9	16	23
3	10	17	24
4	11	18	25
5	12	19	20
6	13	20	



Miles
5 2.5 0 5 10 15 20

Louisiana Coastal Protection and Restoration

Planning Unit 3a
East Terrebonne Basin

Water Surface Elevations
400-Year Event
2010 Base Conditions

May 2008

Planning Unit 3a

Legend

-7	3	13	23
-6	4	14	24
-5	5	15	25
-4	6	16	26
-3	7	17	27
-2	8	18	28
-1	9	19	29
0	10	20	30
1	11	21	22
2	12	22	



Miles
5 2.5 0 5 10 15 20

Louisiana Coastal Protection and Restoration

Planning Unit 3a
East Terrebonne Basin

Water Depths
400-Year Event
2010 Base Conditions

May 2008

Planning Unit 3a

Legend

0	7	14	21
1	8	15	22
2	9	16	23
3	10	17	24
4	11	18	25
5	12	19	20
6	13	21	22



Miles
5 2.5 0 5 10 15 20

Louisiana Coastal Protection and Restoration

Planning Unit 3a

East Terrebonne Basin

Water Surface Elevations

1000-Year Event

2010 Base Conditions

May 2008

Planning Unit 3a

Legend

-7	3	13	23
-6	4	14	24
-5	5	15	25
-4	6	16	26
-3	7	17	27
-2	8	18	28
-1	9	19	29
0	10	20	30
1	11	21	LACPRA Planning Units
2	12	22	



5 2.5 0 5 10 15 20 Miles

Louisiana Coastal Protection and Restoration

Planning Unit 3a
East Terrebonne Basin

Water Depths
1000-Year Event
2010 Base Conditions

May 2008

Planning Unit 3a

Legend

0	7	14	21
1	8	15	22
2	9	16	23
3	10	17	24
4	11	18	25
5	12	19	LACPR Planning Units
6	13	20	



Miles
5 2.5 0 5 10 15 20

Louisiana Coastal Protection and Restoration

Planning Unit 3a
East Terrebonne Basin

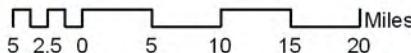
Water Surface Elevations
100-Year Event
2060 No Action

May 2008

Planning Unit 3a

Legend

-7	3	13	23
-6	4	14	24
-5	5	15	25
-4	6	16	26
-3	7	17	27
-2	8	18	28
-1	9	19	29
0	10	20	30
1	11	21	LACP R Planning Units
2	12	22	



Note: Future "no-action" frequencies or event surfaces are based on ADCIRC simulated storm surge values for a projected "50-yr" future coast based on no additional coastal restoration. Statistical surfaces shown include the added effects of relative sea level rise, i.e. eustatic plus local subsidence.

Louisiana Coastal Protection and Restoration

Planning Unit 3a
East Terrebonne Basin

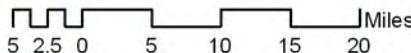
Water Surface Elevations
400-Year Event
2060 No Action

May 2008

Planning Unit 3a

Legend

-7	3	13	23
-6	4	14	24
-5	5	15	25
-4	6	16	26
-3	7	17	27
-2	8	18	28
-1	9	19	29
0	10	20	30
1	11	21	LACPR Planning Units
2	12	22	



Note: Future "no-action" frequencies or event surfaces are based on ADCIRC simulated storm surge values for a projected "50-yr" future coast based on no additional coastal restoration. Statistical surfaces shown include the added effects of relative sea level rise, i.e. eustatic plus local subsidence.

Louisiana Coastal Protection and Restoration

Planning Unit 3a
East Terrebonne Basin

Water Surface Elevations
1000-Year Event
2060 No Action

May 2008

Planning Unit 3a

Legend

-7	3	13	23
-6	4	14	24
-5	5	15	25
-4	6	16	26
-3	7	17	27
-2	8	18	28
-1	9	19	29
0	10	20	30
1	11	21	LACPR Planning Units
2	12	22	



Miles
5 2.5 0 5 10 15 20

Note: Future "no-action" frequencies or event surfaces are based on ADCIRC simulated storm surge values for a projected "50-yr" future coast based on no additional coastal restoration. Statistical surfaces shown include the added effects of relative sea level rise, i.e. eustatic plus local subsidence.

Louisiana Coastal Protection and Restoration

Planning Unit 3a
East Terrebonne Basin

Water Surface Elevations
100-Year Event
2060 Maintain

May 2008

Planning Unit 3a

Legend

-7	3	13	23
-6	4	14	24
-5	5	15	25
-4	6	16	26
-3	7	17	27
-2	8	18	28
-1	9	19	29
0	10	20	30
1	11	21	LACP R Planning Units
2	12	22	



Miles
5 2.5 0 5 10 15 20

Note: Future "maintain coast" frequencies or event surfaces are based on ADCIRC simulated storm surge values for the base coastline. Statistical surfaces shown include the added effects of relative sea level rise, i.e. eustatic plus local subsidence.

Louisiana Coastal Protection and Restoration

Planning Unit 3a
East Terrebonne Basin

Water Surface Elevations
400-Year Event
2060 Maintain

May 2008

Planning Unit 3a

Legend

-7	3	13	23
-6	4	14	24
-5	5	15	25
-4	6	16	26
-3	7	17	27
-2	8	18	28
-1	9	19	29
0	10	20	30
1	11	21	LACP R Planning Units
2	12	22	



Miles
5 2.5 0 5 10 15 20

Note: Future "maintain coast" frequencies or event surfaces are based on ADCIRC simulated storm surge values for the base coastline. Statistical surfaces shown include the added effects of relative sea level rise, i.e. eustatic plus local subsidence.

Louisiana Coastal Protection and Restoration

Planning Unit 3a
East Terrebonne Basin

Water Surface Elevations
1000-Year Event
2060 Maintain

May 2008

Planning Unit 3a

Legend

-7	3	13	23
-6	4	14	24
-5	5	15	25
-4	6	16	26
-3	7	17	27
-2	8	18	28
-1	9	19	29
0	10	20	30
1	11	21	LACPR Planning Units
2	12	22	



Miles
5 2.5 0 5 10 15 20

Note: Future "maintain coast" frequencies or event surfaces are based on ADCIRC simulated storm surge values for the base coastline. Statistical surfaces shown include the added effects of relative sea level rise, i.e. eustatic plus local subsidence.

Planning Unit:	3a	Alt. No.:	PU3a-0	Category:	No Action
Alternative Description:	No action (without project) alternative.				
Coastal Component:	Degraded coast--increasing risk.	Nonstructural Component:		None	
Structural Component:	No new levees or increases in risk reduction level for existing levees.				

Scenario	Future Conditions (Relative Sea Level Rise (RSLR) and Redevelopment Assumptions)	Uncertainty	Results by Scenario with Uncertainty Bands								
			Life Cycle Cost	Population Impacted	Residual Damages	Gross Regional Output Impacted	Employment Impacted	People's Earned Income Impacted	Archeo. Sites Protected	Historic Properties Protected	Historic Districts Protected
			Ann. Equiv. \$ Millions	Ann. Equiv. #	Ann. Equiv. \$ Millions	Ann. Equiv. \$ Millions	Ann. Equiv. #	Ann. Equiv. \$ Millions	# Sites	# Properties	# Districts
1	Low RSLR High Employment Dispersed Population	High	0	12,448	491	869	2,329	168	92	7	1
		Mid		16,540	752	1,361	3,941	269	82	4	0
		Low		19,069	1,028	1,800	5,462	367	72	0	0
2	High RSLR High Employment Dispersed Population	High	0	14,323	596	1,131	2,872	223	92	5	1
		Mid		18,121	911	1,828	4,951	367	82	3	0
		Low		20,475	1,220	2,088	6,018	423	72	0	0
3	Low RSLR Business-as-Usual Compact Population	High	0	10,774	477	844	2,259	161	92	7	1
		Mid		14,918	723	1,271	3,809	257	82	4	0
		Low		17,236	967	1,634	5,167	341	72	0	0
4	High RSLR Business-as-Usual Compact Population	High	0	12,164	570	854	2,854	221	92	5	1
		Mid		16,092	855	1,197	4,715	345	82	3	0
		Low		18,171	1,115	1,343	5,787	405	72	0	0

Other Results			Wetlands Created/Protected		Scenario 1	Scenario 2	Scenario 3	Scenario 4
Construction Time (years)			After 50 yrs (% of baseline)		68	66	68	66
Direct Wetland Impacts (acres)			After 100 yrs (% of baseline)		55	50	55	50
Indirect Impacts (unitless)			Present Value of Life Cycle Costs (\$ Millions)					
Spatial Integrity (unitless)			Coastal Component		0	0	0	0
Non-Federal Share of Present Value of Life Cycle Costs	Scenario	(\$ Millions)		Nonstructural Component		0	0	0
	1 / 2	0	0	Structural Component		0	0	0
	3 / 4	0	0	Total Project		0	0	0

2075 Residual Risk / Damages - Low Uncertainty (\$ Millions)								Planning Unit 3a No Action Plan	
Frequency	Scenario 1		Scenario 2		Scenario 3		Scenario 4		
	No Action	With Proj							
10-year	1,460	N/A	2,472	N/A	1,422	N/A	2,425	N/A	
100-year	10,629	N/A	15,966	N/A	9,695	N/A	13,659	N/A	
400-year	22,650	N/A	25,236	N/A	17,848	N/A	19,693	N/A	
1,000-year	26,922	N/A	28,128	N/A	20,766	N/A	21,591	N/A	
2,000-year	28,659	N/A	29,317	N/A	21,942	N/A	22,348	N/A	

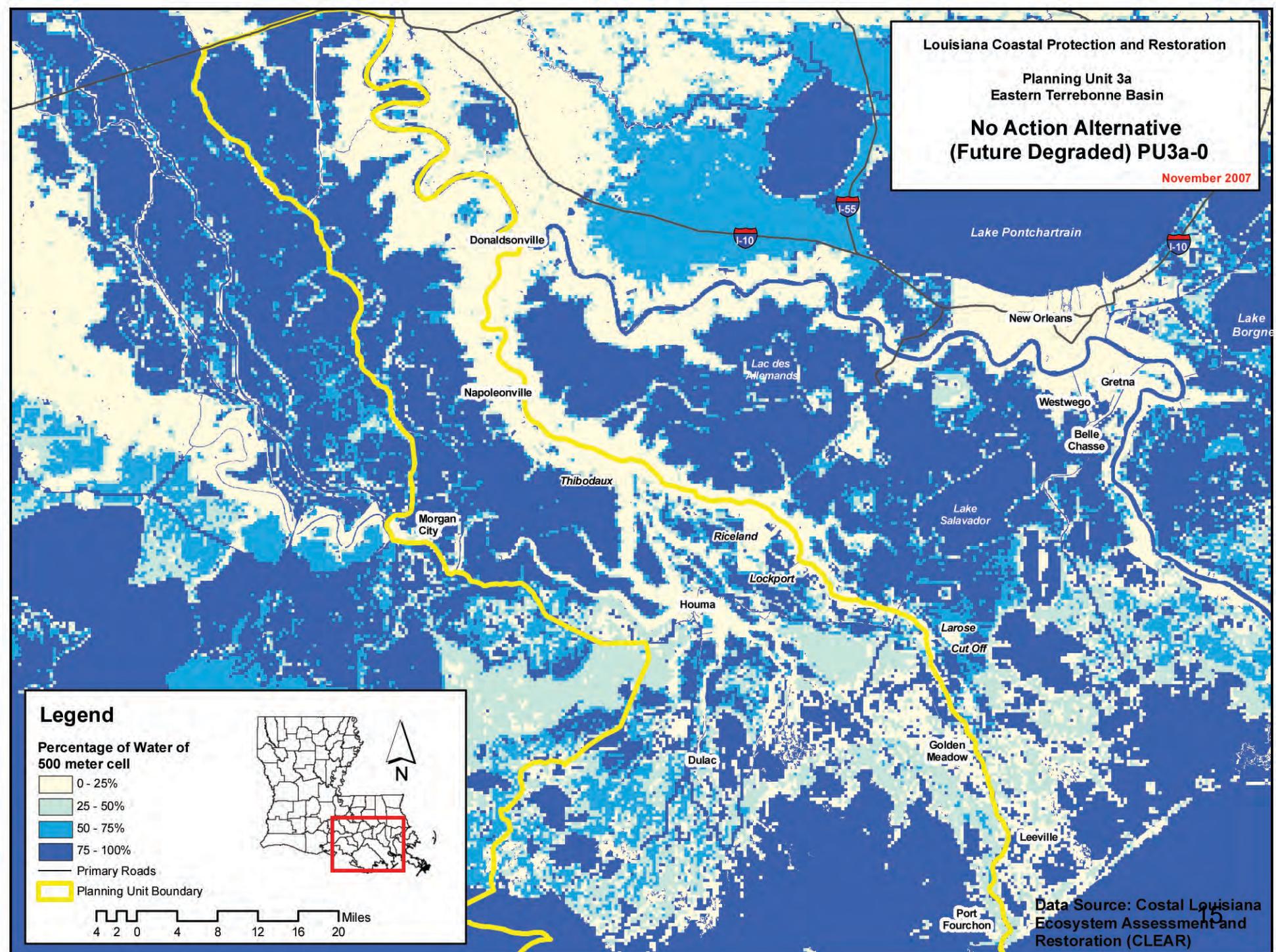
Note: Present Value costs and Annual Equivalent numbers are calculated for the period from 2010 to 2075 at common base year 2025 using a 4.7%/8% Federal discount rate. All dollar metrics are based on 2007 price levels.

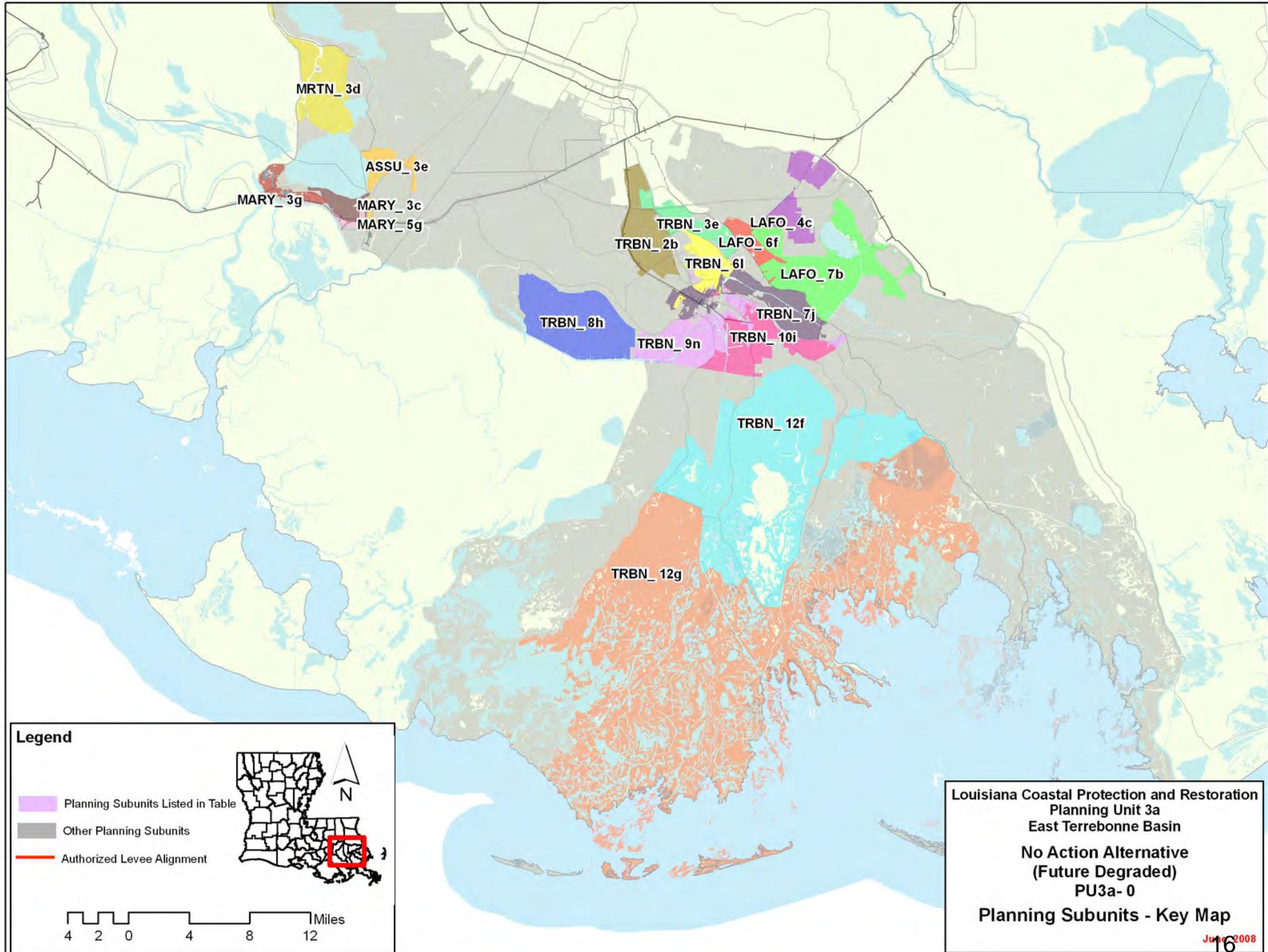
Louisiana Coastal Protection and Restoration

Planning Unit 3a
Eastern Terrebonne Basin

**No Action Alternative
(Future Degraded) PU3a-0**

November 2007





Alternative: PU3a-0
Water Surface Elevations (feet - NAVD88 2004.65)

Planning Sub Unit	2010 (Base) Conditions						2060 (Future) Conditions					
	100-yr Event		400-year Event		1,000-yr Event		100-yr Event		400-year Event		1,000-yr Event	
	Without Project	With Project	Without Project	With Project	Without Project	With Project	Without Project	With Project	Without Project	With Project	Without Project	With Project
ASSU_3e	3.7		3.9		4.3		6.9		7.1		7.5	
LAFO_4c	7.0		11.7		13.6		10.2		14.9		16.8	
LAFO_6f	8.4		13.4		16.7		11.6		16.6		19.9	
LAFO_7b	7.8		11.5		13.6		11.0		14.7		16.8	
MARY_2f	6.3		8.5		9.9		9.5		11.7		13.1	
MARY_3c	6.3		10.8		13.1		9.5		14.0		16.3	
MARY_3g	6.1		9.6		11.4		9.3		12.8		14.6	
MARY_5g	7.8		9.9		12.0		11.0		13.1		15.2	
MRTN_3d	3.8		5.9		7.1		7.0		9.1		10.3	
TRBN_10i	11.2		16.1		19.5		14.4		19.3		22.7	
TRBN_12f	13.5		18.0		20.8		16.7		21.2		24.0	
TRBN_12g	13.2		16.9		19.0		16.1		19.6		21.8	
TRBN_2b	6.6		9.5		12.8		9.8		12.7		16.0	
TRBN_3e	4.9		8.8		11.7		8.1		12.0		14.9	
TRBN_6l	7.8		8.8		10.5		11.0		12.0		13.7	
TRBN_7j	9.3		14.0		16.3		12.5		17.2		19.5	
TRBN_8h	9.7		14.5		17.4		14.3		18.7		20.7	
TRBN_9n	8.4		12.1		14.1		11.6		15.3		17.3	
Evaluation Parameters	Confidence Level:			90%		Levee Design:			No Friction Waves			
	Future Relative Sea Level Rise:			3.2 feet		Levee Overtopping:			No Friction Waves			

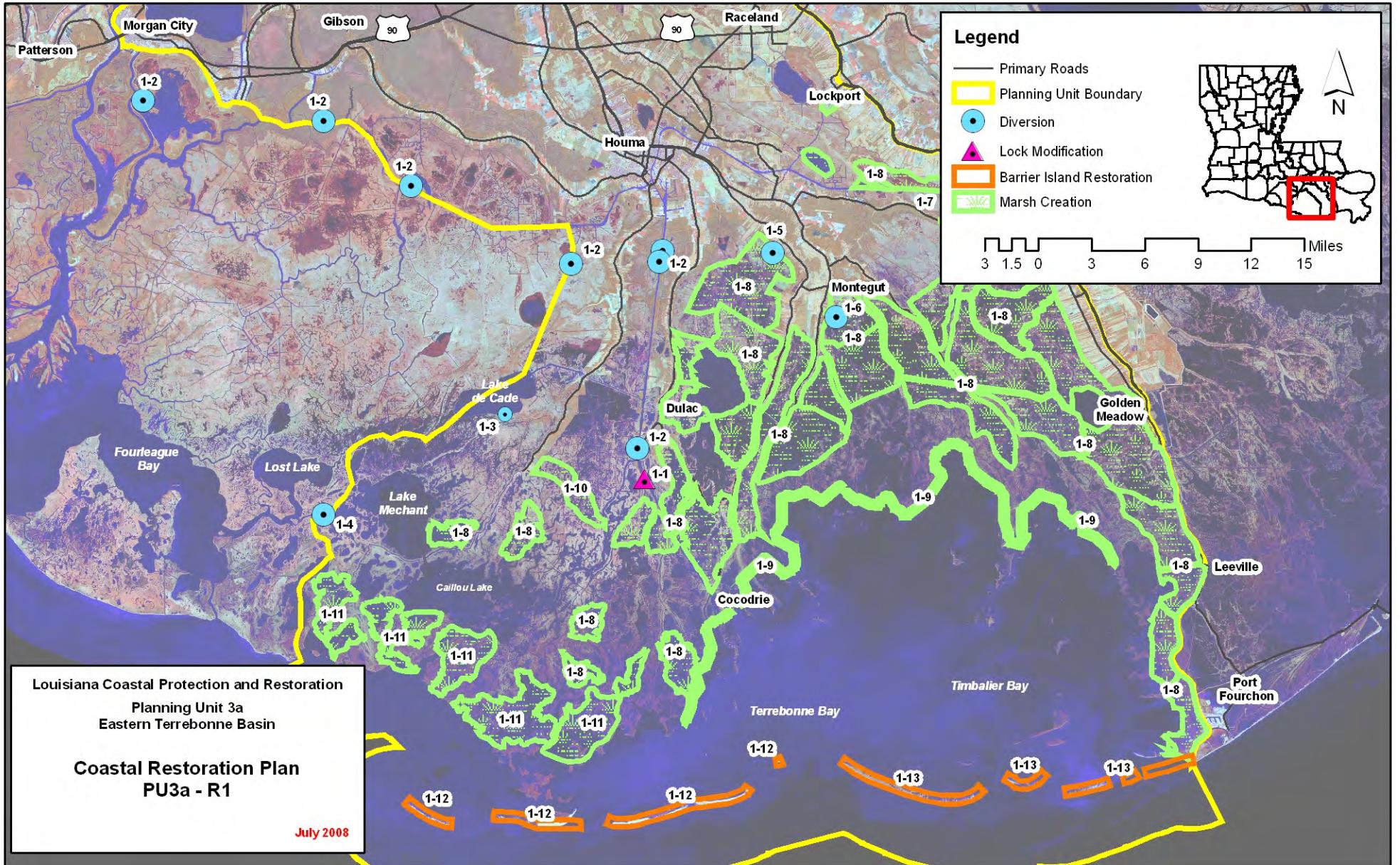
Planning Unit:	3a	Alt. No.:	PU3a-R1	Category:	Coastal Restoration Only	
Alternative Description:						
Coastal Component:	R1		Nonstructural Component:	None		
Structural Component:	No new levees or increases in risk reduction level for existing levees.					

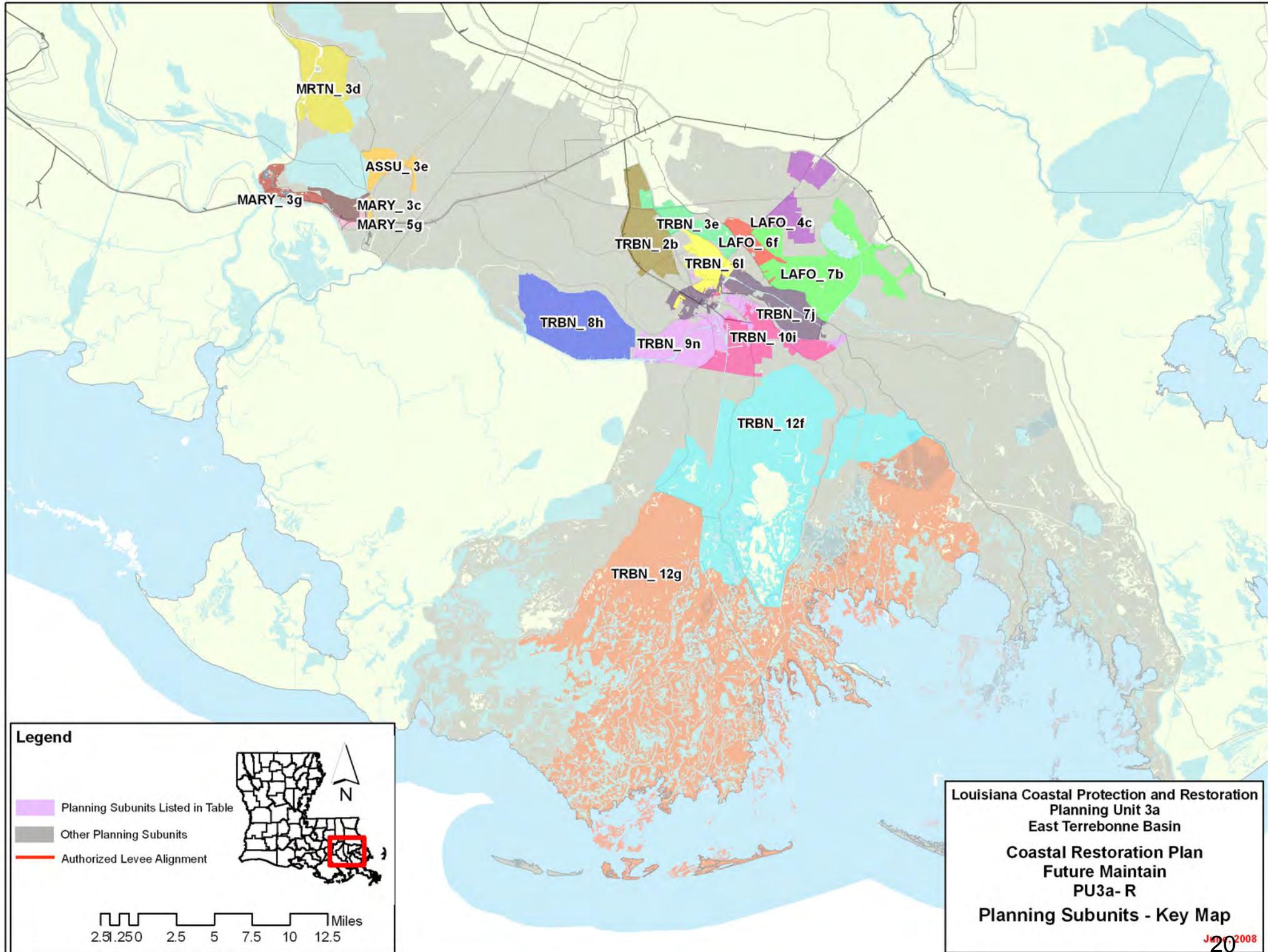
Scenario	Future Conditions (Relative Sea Level Rise (RSLR) and Redevelopment Assumptions)	Uncertainty	Results by Scenario with Uncertainty Bands								
			Life Cycle Cost	Population Impacted	Residual Damages	Gross Regional Output Impacted	Employment Impacted	People's Earned Income Impacted	Archeo. Sites Protected	Historic Properties Protected	Historic Districts Protected
			Ann. Equiv. \$ Millions	Ann. Equiv. #	Ann. Equiv. \$ Millions	Ann. Equiv. \$ Millions	Ann. Equiv. #	Ann. Equiv. \$ Millions	# Sites	# Properties	# Districts
1	Low RSLR High Employment Dispersed Population	High	1,189	12,456	490	864	2,317	167	157	10	1
		Mid		16,592	750	1,357	3,929	268	134	6	0
		Low		19,115	1,027	1,796	5,451	366	111	3	0
2	High RSLR High Employment Dispersed Population	High	1,210	14,325	595	1,131	2,873	223	157	10	1
		Mid		18,185	910	1,829	4,952	367	134	6	0
		Low		20,522	1,221	2,090	6,024	424	111	3	0
3	Low RSLR Business-as-Usual Compact Population	High	1,189	10,768	476	843	2,258	161	157	10	1
		Mid		14,958	722	1,272	3,809	257	134	6	0
		Low		17,274	967	1,633	5,163	341	111	3	0
4	High RSLR Business-as-Usual Compact Population	High	1,210	12,171	569	1,140	2,853	221	157	10	1
		Mid		16,142	855	1,684	4,716	345	134	6	0
		Low		18,207	1,117	1,944	5,789	405	111	3	0

Other Results			Wetlands Created/Protected	Scenario 1	Scenario 2	Scenario 3	Scenario 4
Construction Time (years)		15	After 50 yrs (% of baseline)	98	97	98	97
Direct Wetland Impacts (acres)		0	After 100 yrs (% of baseline)	110	100	110	100
Indirect Impacts (unitless)		0	Present Value of Life Cycle Costs (\$ Millions)				
Spatial Integrity (unitless)		0.37	Coastal Component	23,276	23,703	23,276	23,703
Non-Federal Share of Present Value of Life Cycle Costs	Scenario	(\$ Millions)	Nonstructural Component	0	0	0	0
	1 / 2	8,146	Structural Component	0	0	0	0
	3 / 4	8,146	Total Project	23,276	23,703	23,276	23,703

2075 Residual Risk / Damages - Low Uncertainty (\$ Millions)								Planning Unit 3a Coastal Plan Coastal Restoration Alt	
Frequency	Scenario 1		Scenario 2		Scenario 3		Scenario 4		
	No Action	With Proj							
10-year	1,460	1,466	2,472	2,479	1,422	1,428	2,425	2,431	
100-year	10,629	10,574	15,966	15,993	9,695	9,683	13,659	13,697	
400-year	22,650	22,760	25,236	25,351	17,848	17,925	19,693	19,779	
1,000-year	26,922	27,034	28,128	28,244	20,766	20,855	21,591	21,683	
2,000-year	28,659	28,781	29,317	29,437	21,942	22,035	22,348	22,440	

Note: Present Value costs and Annual Equivalent numbers are calculated for the period from 2010 to 2075 at common base year 2025 using a 4.7/8% Federal discount rate. All dollar metrics are based on 2007 price levels.





Alternative: PU3a-R1
Water Surface Elevations (feet - NAVD88 2004.65)

Planning Sub Unit	2010 (Base) Conditions*						2060 (Future) Conditions					
	100-yr Event		400-year Event		1,000-yr Event		100-yr Event		400-year Event		1,000-yr Event	
	Without Project	With Project	Without Project	With Project	Without Project	With Project	Without Project	With Project	Without Project	With Project	Without Project	With Project
ASSU_3e	3.7	3.7	3.9	3.9	4.3	4.3	6.9	6.9	7.1	7.1	7.5	7.5
LAFO_4c	7.0	7.0	11.7	11.7	13.6	13.6	10.2	10.2	14.9	14.9	16.8	16.8
LAFO_6f	8.4	8.4	13.4	13.4	16.7	16.7	11.6	11.6	16.6	16.6	19.9	19.9
LAFO_7b	7.8	7.8	11.5	11.5	13.6	13.6	11.0	11.0	14.7	14.7	16.8	16.8
MARY_2f	6.3	6.3	8.5	8.5	9.9	9.9	9.5	9.5	11.7	11.7	13.1	13.1
MARY_3c	6.3	6.3	10.8	10.8	13.1	13.1	9.5	9.5	14.0	14.0	16.3	16.3
MARY_3g	6.1	6.1	9.6	9.6	11.4	11.4	9.3	9.3	12.8	12.8	14.6	14.6
MARY_5g	7.8	7.8	9.9	9.9	12.0	12.0	11.0	11.0	13.1	13.1	15.2	15.2
MRTN_3d	3.8	3.8	5.9	5.9	7.1	7.1	7.0	7.0	9.1	9.1	10.3	10.3
TRBN_10i	11.2	11.2	16.1	16.1	19.5	19.5	14.4	14.4	19.3	19.3	22.7	22.7
TRBN_12f	13.5	13.5	18.0	18.0	20.8	20.8	16.7	16.7	21.2	21.2	24.0	24.0
TRBN_12g	13.2	13.2	16.9	16.9	19.0	19.0	16.1	16.4	19.6	20.1	21.8	22.2
TRBN_2b	6.6	6.6	9.5	9.5	12.8	12.8	9.8	9.8	12.7	12.7	16.0	16.0
TRBN_3e	4.9	4.9	8.8	8.8	11.7	11.7	8.1	8.1	12.0	12.0	14.9	14.9
TRBN_6l	7.8	7.8	8.8	8.8	10.5	10.5	11.0	11.0	12.0	12.0	13.7	13.7
TRBN_7j	9.3	9.3	14.0	14.0	16.3	16.3	12.5	12.5	17.2	17.2	19.5	19.5
TRBN_8h	9.7	9.7	14.5	14.5	17.4	17.4	14.3	12.9	18.7	17.7	20.7	20.6
TRBN_9n	8.4	8.4	12.1	12.1	14.1	14.1	11.6	11.6	15.3	15.3	17.3	17.3
Evaluation Parameters	Confidence Level:			90%		Levee Design:	No Friction Waves				No Friction Waves	
	Future Relative Sea Level Rise:			3.2 feet			Levee Overtopping:					

* With and without project base conditions (2010) are the same for coastal restoration only plans.

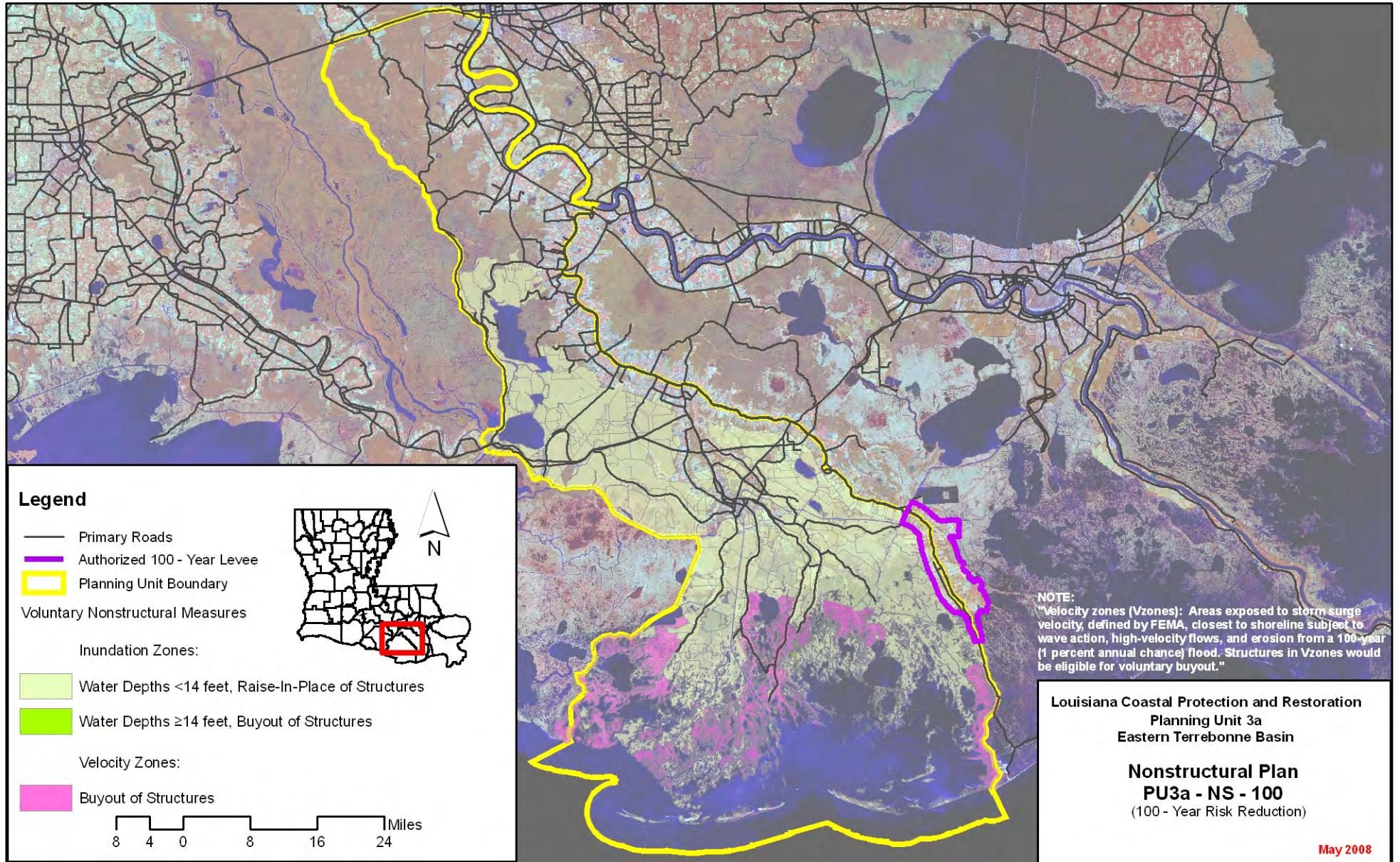
Planning Unit:	3a	Alt. No.:	PU3a-NS-100	Category:	Coastal Restoration + Nonstructural Measures
Alternative Description:	Sustain coastal landscape through restoration. Implement comprehensive 100-year nonstructural measures.				
Coastal Component:	R1	Nonstructural Component:		100-yr stand alone measures	
Structural Component:	No new levees or increases in risk reduction level for existing levees.				

Scenario	Future Conditions (Relative Sea Level Rise (RSLR) and Redevelopment Assumptions)	Uncertainty	Results by Scenario with Uncertainty Bands								
			Life Cycle Cost	Population Impacted	Residual Damages	Gross Regional Output Impacted	Employment Impacted	People's Earned Income Impacted	Archeo. Sites Protected	Historic Properties Protected	Historic Districts Protected
			Ann. Equiv. \$ Millions	Ann. Equiv. #	Ann. Equiv. \$ Millions	Ann. Equiv. \$ Millions	Ann. Equiv. #	Ann. Equiv. \$ Millions	# Sites	# Properties	# Districts
1	Low RSLR High Employment Dispersed Population	High	1,587	11,127	195	279	902	54	157	10	1
		Mid		15,021	327	640	2,047	127	134	6	0
		Low		17,559	512	932	3,078	193	111	3	0
2	High RSLR High Employment Dispersed Population	High	1,609	12,090	225	407	1,154	81	157	10	1
		Mid		15,841	406	861	2,550	175	134	6	0
		Low		18,284	625	1,032	3,313	214	111	3	0
3	Low RSLR Business-as-Usual Compact Population	High	1,587	9,856	189	257	852	49	157	10	1
		Mid		13,882	313	591	1,989	121	134	6	0
		Low		16,267	476	843	2,926	179	111	3	0
4	High RSLR Business-as-Usual Compact Population	High	1,608	10,579	212	267	1,120	77	157	10	1
		Mid		14,492	377	552	2,424	163	134	6	0
		Low		16,747	566	671	3,181	203	111	3	0

Other Results			Wetlands Created/Protected		Scenario 1	Scenario 2	Scenario 3	Scenario 4
Construction Time (years)			After 50 yrs (% of baseline)		98	97	98	97
Direct Wetland Impacts (acres)			After 100 yrs (% of baseline)		110	100	110	100
Indirect Impacts (unitless)			Present Value of Life Cycle Costs (\$ Millions)					
Spatial Integrity (unitless)			Coastal Component		23,276	23,703	23,276	23,703
Non-Federal Share of Present Value of Life Cycle Costs	Scenario	(\$ Millions)	Nonstructural Component		7,827	7,827	7,811	7,811
	1 / 2	10,886	Structural Component		0	0	0	0
	3 / 4	10,880	Total Project		31,102	31,530	31,086	31,514

2075 Residual Risk / Damages - Low Uncertainty (\$ Millions)								Planning Unit 3a Nonstructural Plan 100-year Design	
Frequency	Scenario 1		Scenario 2		Scenario 3		Scenario 4		
	No Action	With Proj							
10-year	1,460	179	2,472	401	1,422	161	2,425	365	
100-year	10,629	5,111	15,966	12,047	9,695	4,257	13,659	9,796	
400-year	22,650	20,976	25,236	24,215	17,848	16,213	19,693	18,694	
1,000-year	26,922	26,215	28,128	27,711	20,766	20,075	21,591	21,178	
2,000-year	28,659	28,308	29,317	29,086	21,942	21,587	22,348	22,107	

Note: Present Value costs and Annual Equivalent numbers are calculated for the period from 2010 to 2075 at common base year 2025 using a 4 7/8% Federal discount rate. All dollar metrics are based on 2007 price levels.



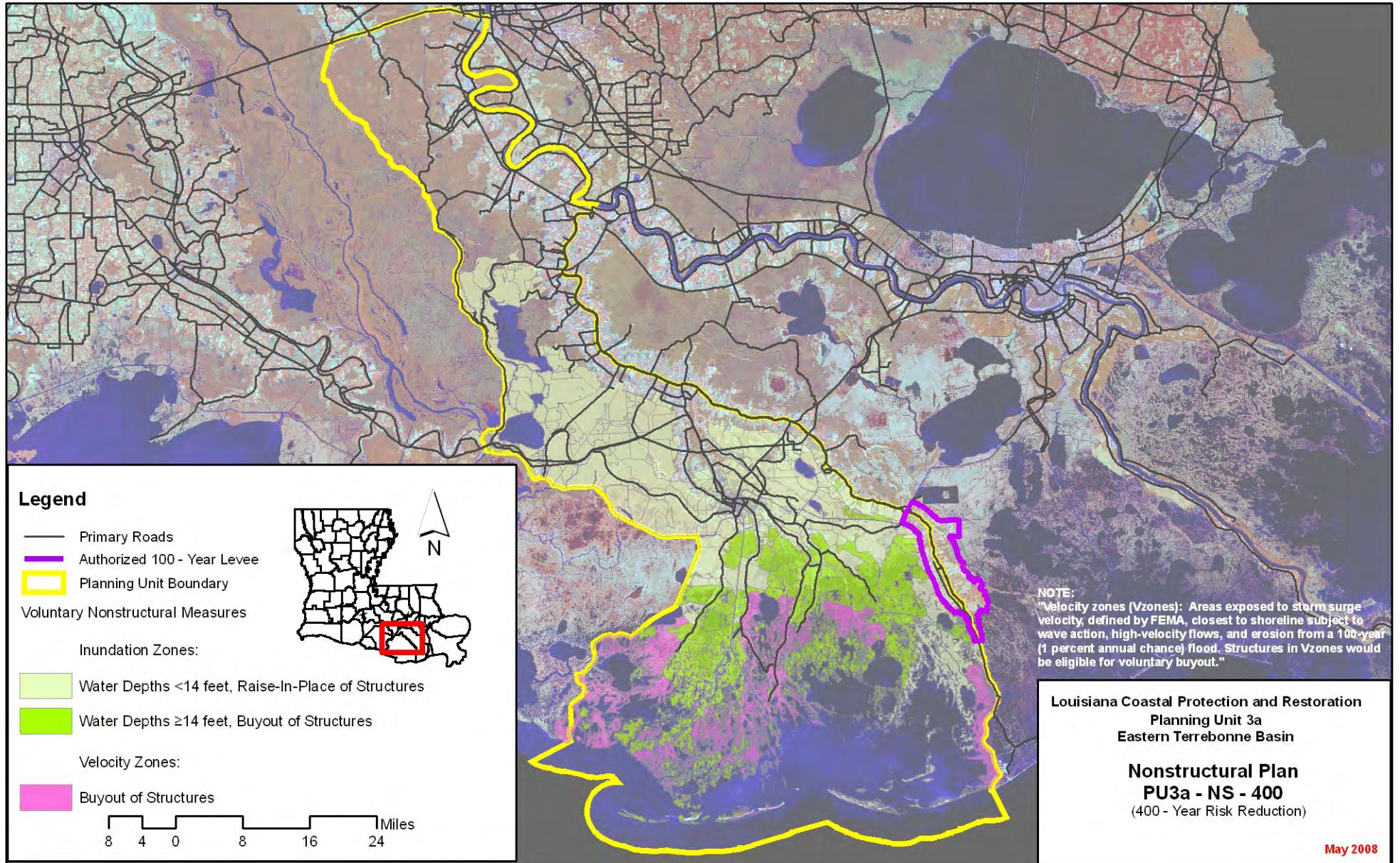
Planning Unit:	3a	Alt. No.:	PU3a-NS-400	Category:	Coastal Restoration + Nonstructural Measures
Alternative Description:	Sustain coastal landscape through restoration. Implement comprehensive 400-year nonstructural measures.				
Coastal Component:	R1	Nonstructural Component:		400-yr stand alone measures	
Structural Component:	No new levees or increases in risk reduction level for existing levees.				

Scenario	Future Conditions (Relative Sea Level Rise (RSLR) and Redevelopment Assumptions)	Uncertainty	Results by Scenario with Uncertainty Bands								
			Life Cycle Cost	Population Impacted	Residual Damages	Gross Regional Output Impacted	Employment Impacted	People's Earned Income Impacted	Archeo. Sites Protected	Historic Properties Protected	Historic Districts Protected
			Ann. Equiv. \$ Millions	Ann. Equiv. #	Ann. Equiv. \$ Millions	Ann. Equiv. \$ Millions	Ann. Equiv. #	Ann. Equiv. \$ Millions	# Sites	# Properties	# Districts
1	Low RSLR High Employment Dispersed Population	High	1,733	9,442	159	153	603	28	157	10	1
		Mid		13,320	249	289	1,149	56	134	6	0
		Low		15,858	365	460	1,805	94	111	3	0
2	High RSLR High Employment Dispersed Population	High	1,755	10,389	165	165	628	31	157	10	1
		Mid		14,140	270	378	1,335	75	134	6	0
		Low		16,583	403	548	1,992	113	111	3	0
3	Low RSLR Business-as-Usual Compact Population	High	1,724	8,300	156	154	604	28	157	10	1
		Mid		12,317	242	287	1,157	56	134	6	0
		Low		14,702	348	463	1,770	93	111	3	0
4	High RSLR Business-as-Usual Compact Population	High	1,746	9,014	161	40	631	31	157	10	1
		Mid		12,927	260	165	1,343	76	134	6	0
		Low		15,183	380	280	1,995	115	111	3	0

Other Results			Wetlands Created/Protected		Scenario 1	Scenario 2	Scenario 3	Scenario 4
Construction Time (years)			After 50 yrs (% of baseline)		98	97	98	97
Direct Wetland Impacts (acres)			After 100 yrs (% of baseline)		110	100	110	100
Indirect Impacts (unitless)			Present Value of Life Cycle Costs (\$ Millions)					
Spatial Integrity (unitless)			Coastal Component		23,276	23,703	23,276	23,703
Non-Federal Share of Present Value of Life Cycle Costs	Scenario	(\$ Millions)	Nonstructural Component		10,683	10,683	10,516	10,516
	1 / 2	11,886	Structural Component		0	0	0	0
	3 / 4	11,827	Total Project		33,959	34,386	33,792	34,219

2075 Residual Risk / Damages - Low Uncertainty (\$ Millions)								Planning Unit 3a Nonstructural Plan 400-year Design	
Frequency	Scenario 1		Scenario 2		Scenario 3		Scenario 4		
	No Action	With Proj							
10-year	1,460	123	2,472	221	1,422	112	2,425	226	
100-year	10,629	1,271	15,966	3,002	9,695	1,148	13,659	2,601	
400-year	22,650	8,151	25,236	15,182	17,848	6,366	19,693	11,875	
1,000-year	26,922	19,436	28,128	22,703	20,766	14,870	21,591	17,415	
2,000-year	28,659	23,655	29,317	25,586	21,942	18,102	22,348	19,453	

Note: Present Value costs and Annual Equivalent numbers are calculated for the period from 2010 to 2075 at common base year 2025 using a 4.7%/8% Federal discount rate. All dollar metrics are based on 2007 price levels.



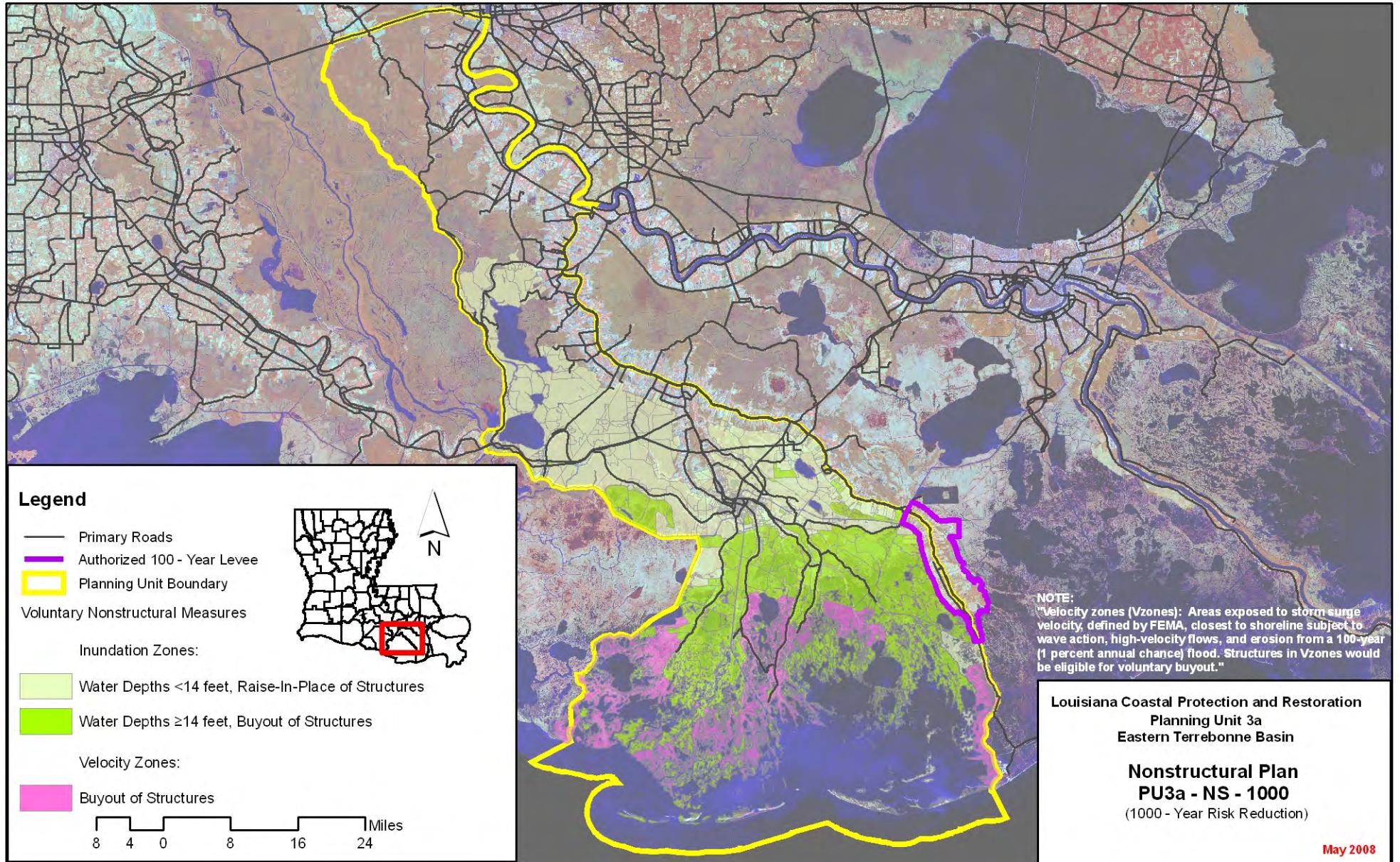
Planning Unit:	3a	Alt. No.:	PU3a-NS-1000	Category:	Coastal Restoration + Nonstructural Measures
Alternative Description:	Sustain coastal landscape through restoration. Implement comprehensive 1000-year nonstructural measures.				
Coastal Component:	R1	Nonstructural Component:			1000-yr stand alone measures
Structural Component:	No new levees or increases in risk reduction level for existing levees.				

Scenario	Future Conditions (Relative Sea Level Rise (RSLR) and Redevelopment Assumptions)	Uncertainty	Results by Scenario with Uncertainty Bands								
			Life Cycle Cost	Population Impacted	Residual Damages	Gross Regional Output Impacted	Employment Impacted	People's Earned Income Impacted	Archeo. Sites Protected	Historic Properties Protected	Historic Districts Protected
			Ann. Equiv. \$ Millions	Ann. Equiv. #	Ann. Equiv. \$ Millions	Ann. Equiv. \$ Millions	Ann. Equiv. #	Ann. Equiv. \$ Millions	# Sites	# Properties	# Districts
1	Low RSLR High Employment Dispersed Population	High	1,786	8,229	152	134	557	25	157	10	1
		Mid		12,045	235	237	1,007	45	134	6	0
		Low		14,544	330	319	1,457	65	111	3	0
2	High RSLR High Employment Dispersed Population	High	1,808	9,161	155	145	581	27	157	10	1
		Mid		12,852	243	267	1,071	52	134	6	0
		Low		15,262	344	444	1,727	91	111	3	0
3	Low RSLR Business-as-Usual Compact Population	High	1,798	7,368	149	135	560	25	157	10	1
		Mid		11,326	230	235	1,009	45	134	6	0
		Low		13,678	317	317	1,424	63	111	3	0
4	High RSLR Business-as-Usual Compact Population	High	1,819	8,076	151	13	579	27	157	10	1
		Mid		11,931	236	48	1,073	52	134	6	0
		Low		14,157	329	175	1,683	89	111	3	0

Other Results			Wetlands Created/Protected		Scenario 1	Scenario 2	Scenario 3	Scenario 4
Construction Time (years)			After 50 yrs (% of baseline)		98	97	98	97
Direct Wetland Impacts (acres)			After 100 yrs (% of baseline)		110	100	110	100
Indirect Impacts (unitless)			Present Value of Life Cycle Costs (\$ Millions)					
Spatial Integrity (unitless)			Coastal Component		23,276	23,703	23,276	23,703
Non-Federal Share of Present Value of Life Cycle Costs	Scenario	(\$ Millions)	Nonstructural Component		11,724	11,724	11,954	11,954
	1 / 2	12,250	Structural Component		0	0	0	0
	3 / 4	12,331	Total Project		34,999	35,427	35,230	35,657

2075 Residual Risk / Damages - Low Uncertainty (\$ Millions)								Planning Unit 3a Nonstructural Plan 1000-year Design	
Frequency	Scenario 1		Scenario 2		Scenario 3		Scenario 4		
	No Action	With Proj							
10-year	1,460	79	2,472	159	1,422	73	2,425	145	
100-year	10,629	717	15,966	1,232	9,695	652	13,659	1,108	
400-year	22,650	3,068	25,236	4,819	17,848	2,199	19,693	3,555	
1,000-year	26,922	8,156	28,128	15,160	20,766	5,917	21,591	11,435	
2,000-year	28,659	16,545	29,317	20,336	21,942	12,660	22,348	15,570	

Note: Present Value costs and Annual Equivalent numbers are calculated for the period from 2010 to 2075 at common base year 2025 using a 4.7%/8% Federal discount rate. All dollar metrics are based on 2007 price levels.



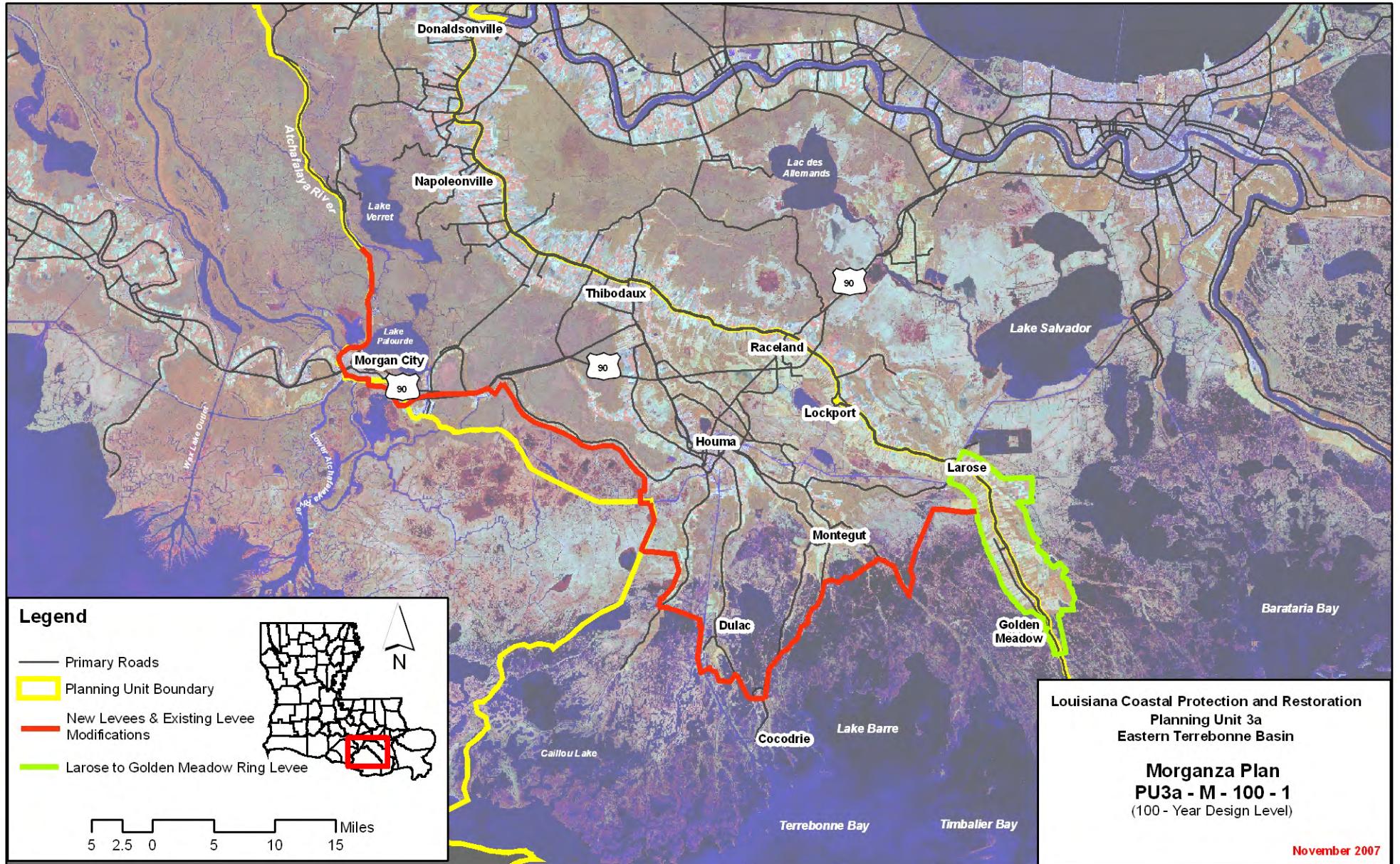
Planning Unit:	3a	Alt. No.:	PU3a-M-100-1	Category:	Coastal Restoration + Structural Measures
Alternative Description:	Sustain coastal landscape through restoration. Construct Morganza to the Gulf levee with extension tying into high ground west of Morgan City at 100-year design level.				
Coastal Component:	R1	Nonstructural Component:			None
Structural Component:	See alternative description above.				

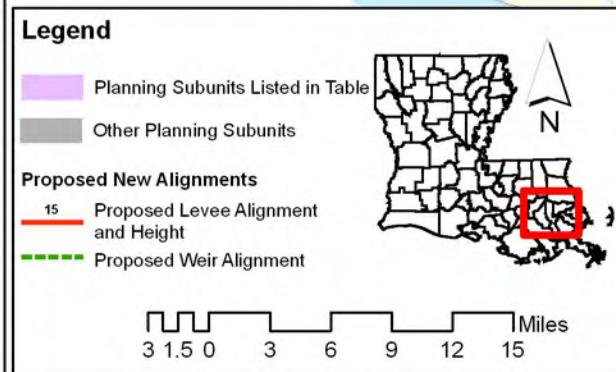
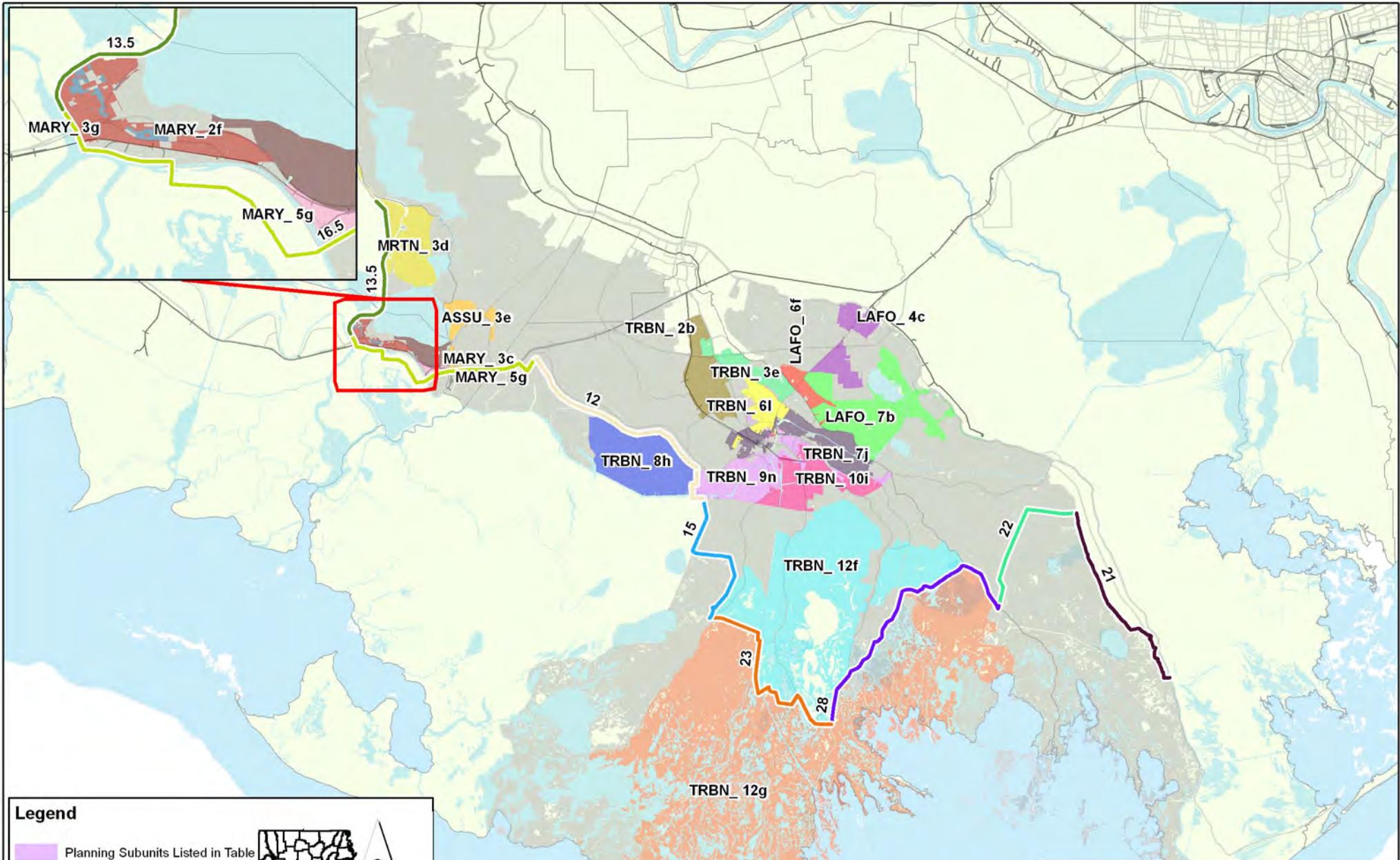
Scenario	Future Conditions (Relative Sea Level Rise (RSLR) and Redevelopment Assumptions)	Uncertainty	Results by Scenario with Uncertainty Bands								
			Life Cycle Cost	Population Impacted	Residual Damages	Gross Regional Output Impacted	Employment Impacted	People's Earned Income Impacted	Archeo. Sites Protected	Historic Properties Protected	Historic Districts Protected
			Ann. Equiv. \$ Millions	Ann. Equiv. #	Ann. Equiv. \$ Millions	Ann. Equiv. \$ Millions	Ann. Equiv. #	Ann. Equiv. \$ Millions	# Sites	# Properties	# Districts
1	Low RSLR High Employment Dispersed Population	High	2,282	5,918	236	333	1,022	62	203	18	1
		Mid		7,658	343	539	1,790	102	180	17	1
		Low		9,106	474	677	2,444	136	157	13	0
2	High RSLR High Employment Dispersed Population	High	2,330	6,165	253	407	1,149	76	203	18	1
		Mid		7,878	367	638	1,977	122	180	14	1
		Low		9,285	503	757	2,578	151	157	8	0
3	Low RSLR Business-as-Usual Compact Population	High	2,282	5,249	231	334	1,017	63	203	18	1
		Mid		7,041	334	528	1,776	102	180	17	1
		Low		8,388	455	653	2,392	132	157	13	0
4	High RSLR Business-as-Usual Compact Population	High	2,330	5,433	246	265	1,161	79	203	18	1
		Mid		7,198	354	363	1,958	121	180	14	1
		Low		8,507	478	417	2,544	150	157	8	0

Other Results			Wetlands Created/Protected		Scenario 1	Scenario 2	Scenario 3	Scenario 4
Construction Time (years)			After 50 yrs (% of baseline)		98	97	98	97
Direct Wetland Impacts (acres)			After 100 yrs (% of baseline)		110	100	110	100
Indirect Impacts (unitless)			Present Value of Life Cycle Costs (\$ Millions)					
Spatial Integrity (unitless)			Coastal Component		23,276	23,703	23,276	23,703
Non-Federal Share of Present Value of Life Cycle Costs	Scenario	(\$ Millions)	Nonstructural Component		0	0	0	0
	1 / 2	15,791	Structural Component		21,412	21,928	21,412	21,928
	3 / 4	15,791	Total Project		44,688	45,631	44,688	45,631

2075 Residual Risk / Damages - Low Uncertainty (\$ Millions)								Planning Unit 3a Structural Plan Morganza Alt 100-year Design	
Frequency	Scenario 1		Scenario 2		Scenario 3		Scenario 4		
	No Action	With Proj							
10-year	1,460	347	2,472	445	1,422	329	2,425	431	
100-year	10,629	873	15,966	996	9,695	859	13,659	946	
400-year	22,650	2,015	25,236	2,046	17,848	1,891	19,693	1,924	
1,000-year	26,922	15,270	28,128	15,273	20,766	12,948	21,591	12,951	
2,000-year	28,659	20,250	29,317	20,251	21,942	16,667	22,348	16,669	

Note: Present Value costs and Annual Equivalent numbers are calculated for the period from 2010 to 2075 at common base year 2025 using a 4.7%/8% Federal discount rate. All dollar metrics are based on 2007 price levels.





Louisiana Coastal Protection and Restoration
Planning Unit 3a
East Terrebonne Basin
Morganza Plan
PU3a - M - 100 - 1
Planning Subunits - Key Map

June 2008
30

Alternative: PU3a-M-100-1
Water Surface Elevations (feet - NAVD88 2004.65)

Planning Sub Unit	2010 (Base) Conditions						2060 (Future) Conditions					
	100-yr Event		400-year Event		1,000-yr Event		100-yr Event		400-year Event		1,000-yr Event	
	Without Project	With Project	Without Project	With Project	Without Project	With Project	Without Project	With Project	Without Project	With Project	Without Project	With Project
ASSU_3e	3.7	2.4	3.9	4.8	4.3	9.1	6.9	2.4	7.1	4.8	7.5	9.1
LAFO_4c	7.0	1.0	11.7	4.8	13.6	10.9	10.2	1.0	14.9	4.8	16.8	10.9
LAFO_6f	8.4	1.0	13.4	4.8	16.7	10.9	11.6	1.0	16.6	4.8	19.9	10.9
LAFO_7b	7.8	1.0	11.5	4.8	13.6	10.9	11.0	1.0	14.7	4.8	16.8	10.9
MARY_2f	6.3	2.4	8.5	4.8	9.9	9.1	9.5	2.4	11.7	4.8	13.1	9.1
MARY_3c	6.3	2.4	10.8	4.8	13.1	9.1	9.5	2.4	14.0	4.8	16.3	9.1
MARY_3g	6.1	2.4	9.6	4.8	11.4	9.1	9.3	2.4	12.8	4.8	14.6	9.1
MARY_5g	7.8	2.4	9.9	4.8	12.0	9.1	11.0	2.4	13.1	4.8	15.2	9.1
MRTN_3d	3.8	2.4	5.9	4.8	7.1	9.1	7.0	2.4	9.1	4.8	10.3	9.1
TRBN_10i	11.2	1.0	16.1	4.8	19.5	10.9	14.4	1.0	19.3	4.8	22.7	10.9
TRBN_12f	13.5	1.0	18.0	4.8	20.8	10.9	16.7	1.0	21.2	4.8	24.0	10.9
TRBN_12g	13.2	14.7	16.9	18.9	19.0	21.3	16.1	17.9	19.6	22.1	21.8	24.5
TRBN_2b	6.6	1.0	9.5	4.8	12.8	10.9	9.8	1.0	12.7	4.8	16.0	10.9
TRBN_3e	4.9	1.0	8.8	4.8	11.7	10.9	8.1	1.0	12.0	4.8	14.9	10.9
TRBN_6l	7.8	1.0	8.8	4.8	10.5	10.9	11.0	1.0	12.0	4.8	13.7	10.9
TRBN_7j	9.3	1.0	14.0	4.8	16.3	10.9	12.5	1.0	17.2	4.8	19.5	10.9
TRBN_8h	9.7	9.9	14.5	14.8	17.4	17.7	14.3	13.1	18.7	18.0	20.7	20.9
TRBN_9n	8.4	1.0	12.1	4.8	14.1	10.9	11.6	1.0	15.3	4.8	17.3	10.9
Evaluation Parameters	Confidence Level:			90%			Levee Design:			No Friction Waves		
	Future Relative Sea Level Rise:			3.2 feet			Levee Overtopping:			No Friction Waves		

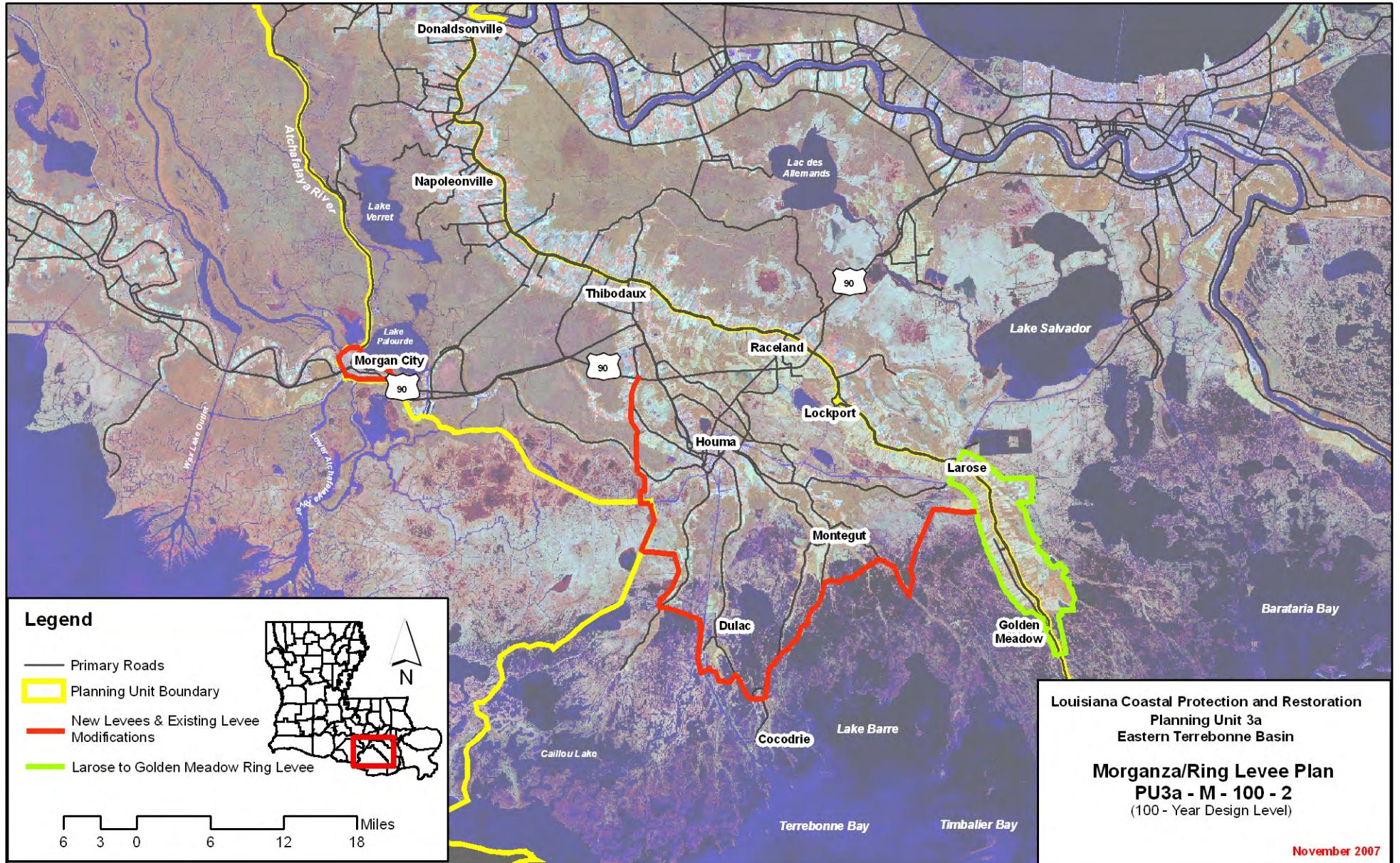
Planning Unit:	3a	Alt. No.:	PU3a-M-100-2	Category:	Coastal Restoration + Structural Measures
Alternative Description:	Sustain coastal landscape through restoration. Construct Morganza to the Gulf levee with tieback to high ground south of Thibodaux and ring levee around Morgan City at 100-year design level.				
Coastal Component:	R1	Nonstructural Component:		None	
Structural Component:	See alternative description above.				

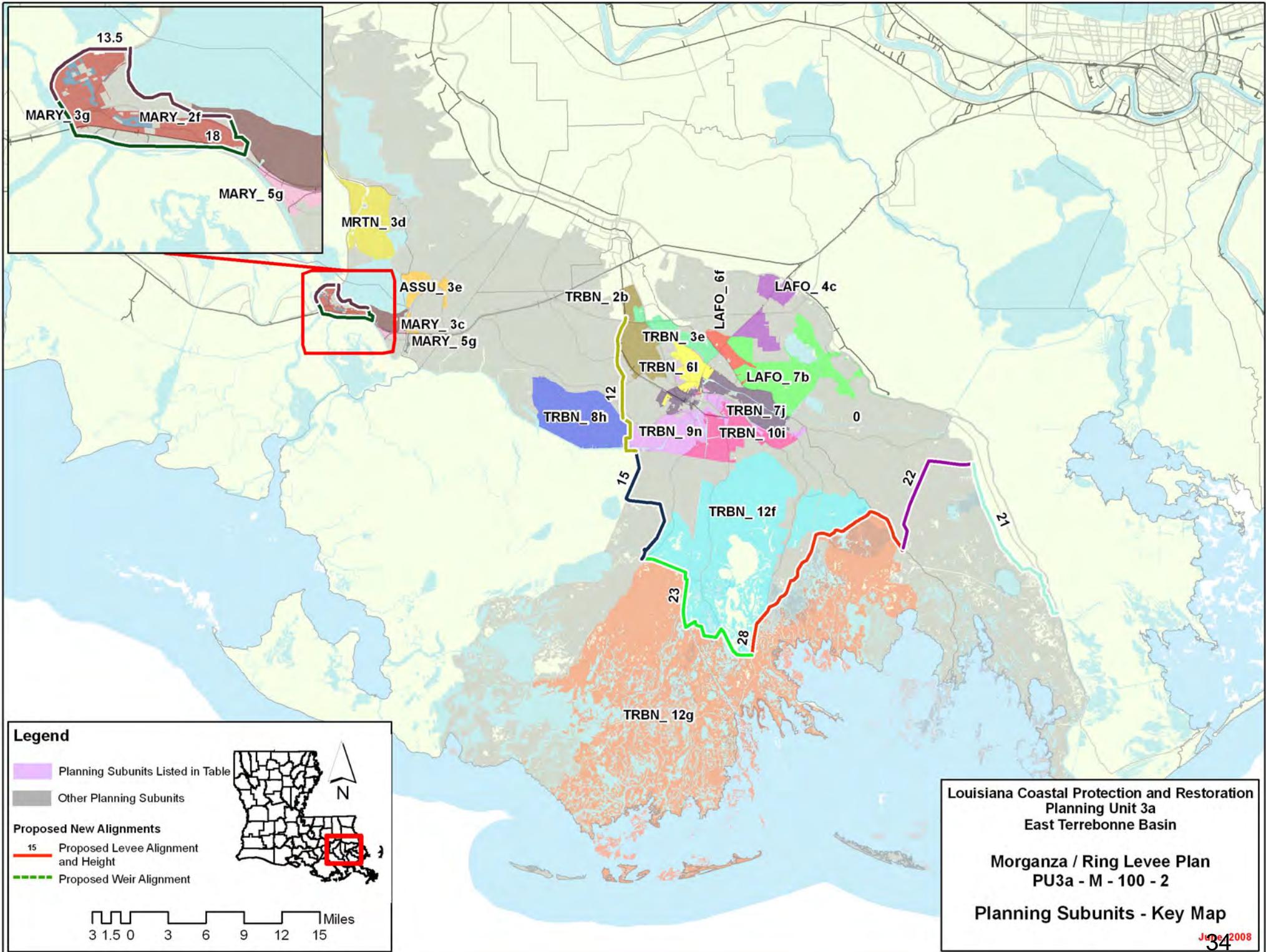
Scenario	Future Conditions (Relative Sea Level Rise (RSLR) and Redevelopment Assumptions)	Uncertainty	Results by Scenario with Uncertainty Bands								
			Life Cycle Cost	Population Impacted	Residual Damages	Gross Regional Output Impacted	Employment Impacted	People's Earned Income Impacted	Archeo. Sites Protected	Historic Properties Protected	Historic Districts Protected
			Ann. Equiv. \$ Millions	Ann. Equiv. #	Ann. Equiv. \$ Millions	Ann. Equiv. \$ Millions	Ann. Equiv. #	Ann. Equiv. \$ Millions	# Sites	# Properties	# Districts
1	Low RSLR High Employment Dispersed Population	High	2,158	6,053	245	358	1,036	66	174	17	1
		Mid		8,182	374	579	1,854	110	151	14	1
		Low		9,937	537	747	2,606	149	128	10	0
2	High RSLR High Employment Dispersed Population	High	2,186	6,516	273	456	1,199	85	174	15	1
		Mid		8,554	413	697	2,065	133	151	11	0
		Low		10,221	579	843	2,763	168	128	8	0
3	Low RSLR Business-as-Usual Compact Population	High	2,158	5,341	240	365	1,034	67	174	17	1
		Mid		7,507	365	577	1,844	110	151	14	1
		Low		9,148	518	731	2,556	146	128	10	0
4	High RSLR Business-as-Usual Compact Population	High	2,186	5,698	267	323	1,218	88	174	15	1
		Mid		7,788	400	431	2,053	133	151	11	0
		Low		9,331	553	514	2,735	167	128	8	0

Other Results			Wetlands Created/Protected		Scenario 1	Scenario 2	Scenario 3	Scenario 4
Construction Time (years)			After 50 yrs (% of baseline)		98	97	98	97
Direct Wetland Impacts (acres)			After 100 yrs (% of baseline)		110	100	110	100
Indirect Impacts (unitless)			Present Value of Life Cycle Costs (\$ Millions)					
Spatial Integrity (unitless)			Coastal Component		23,276	23,703	23,276	23,703
Non-Federal Share of Present Value of Life Cycle Costs	Scenario	(\$ Millions)		Nonstructural Component		0	0	0
	1 / 2	14,974	15,164	Structural Component		18,983	19,098	18,983
	3 / 4	14,974	15,164	Total Project		42,258	42,801	42,258

2075 Residual Risk / Damages - Low Uncertainty (\$ Millions)								Planning Unit 3a Structural Plan Morganza Alt 100-year Design	
Frequency	Scenario 1		Scenario 2		Scenario 3		Scenario 4		
	No Action	With Proj							
10-year	1,460	399	2,472	725	1,422	390	2,425	762	
100-year	10,629	2,082	15,966	2,670	9,695	2,056	13,659	2,532	
400-year	22,650	5,312	25,236	5,528	17,848	4,933	19,693	5,088	
1,000-year	26,922	20,567	28,128	20,702	20,766	16,857	21,591	16,937	
2,000-year	28,659	20,763	29,317	20,780	21,942	17,002	22,348	17,028	

Note: Present Value costs and Annual Equivalent numbers are calculated for the period from 2010 to 2075 at common base year 2025 using a 4.78% Federal discount rate. All dollar metrics are based on 2007 price levels.





Alternative: PU3a-M-100-2
Water Surface Elevations (feet - NAVD88 2004.65)

Planning Sub Unit	2010 (Base) Conditions						2060 (Future) Conditions					
	100-yr Event		400-year Event		1,000-yr Event		100-yr Event		400-year Event		1,000-yr Event	
	Without Project	With Project	Without Project	With Project	Without Project	With Project	Without Project	With Project	Without Project	With Project	Without Project	With Project
ASSU_3e	3.7	4.4	3.9	4.6	4.3	5.0	6.9	7.6	7.1	7.8	7.5	8.2
LAFO_4c	7.0	1.1	11.7	5.7	13.6	12.0	10.2	1.1	14.9	5.7	16.8	12.0
LAFO_6f	8.4	1.1	13.4	5.7	16.7	12.0	11.6	1.1	16.6	5.7	19.9	12.0
LAFO_7b	7.8	1.1	11.5	5.7	13.6	12.0	11.0	1.1	14.7	5.7	16.8	12.0
MARY_2f	6.3	1.3	8.5	10.1	9.9	18.0	9.5	1.3	11.7	10.1	13.1	18.0
MARY_3c	6.3	7.0	10.8	11.5	13.1	13.9	9.5	10.2	14.0	14.7	16.3	17.1
MARY_3g	6.1	1.3	9.6	10.1	11.4	18.0	9.3	1.3	12.8	10.1	14.6	18.0
MARY_5g	7.8	8.5	9.9	10.6	12.0	12.7	11.0	11.7	13.1	13.8	15.2	15.9
MRTN_3d	3.8	4.5	5.9	6.6	7.1	7.8	7.0	7.7	9.1	9.8	10.3	11.0
TRBN_10i	11.2	1.1	16.1	5.7	19.5	12.0	14.4	1.1	19.3	5.7	22.7	12.0
TRBN_12f	13.5	1.1	18.0	5.7	20.8	12.0	16.7	1.1	21.2	5.7	24.0	12.0
TRBN_12g	13.2	14.7	16.9	18.9	19.0	21.3	16.1	17.9	19.6	22.1	21.8	24.5
TRBN_2b	6.6	1.1	9.5	5.7	12.8	12.0	9.8	1.1	12.7	5.7	16.0	12.0
TRBN_3e	4.9	1.1	8.8	5.7	11.7	12.0	8.1	1.1	12.0	5.7	14.9	12.0
TRBN_6l	7.8	1.1	8.8	5.7	10.5	12.0	11.0	1.1	12.0	5.7	13.7	12.0
TRBN_7j	9.3	1.1	14.0	5.7	16.3	12.0	12.5	1.1	17.2	5.7	19.5	12.0
TRBN_8h	9.7	9.9	14.5	14.8	17.4	17.7	14.3	13.1	18.7	18.0	20.7	20.9
TRBN_9n	8.4	1.1	12.1	5.7	14.1	12.0	11.6	1.1	15.3	5.7	17.3	12.0
Evaluation Parameters	Confidence Level:			90%			Levee Design:			No Friction Waves		
	Future Relative Sea Level Rise:			3.2 feet			Levee Overtopping:			No Friction Waves		

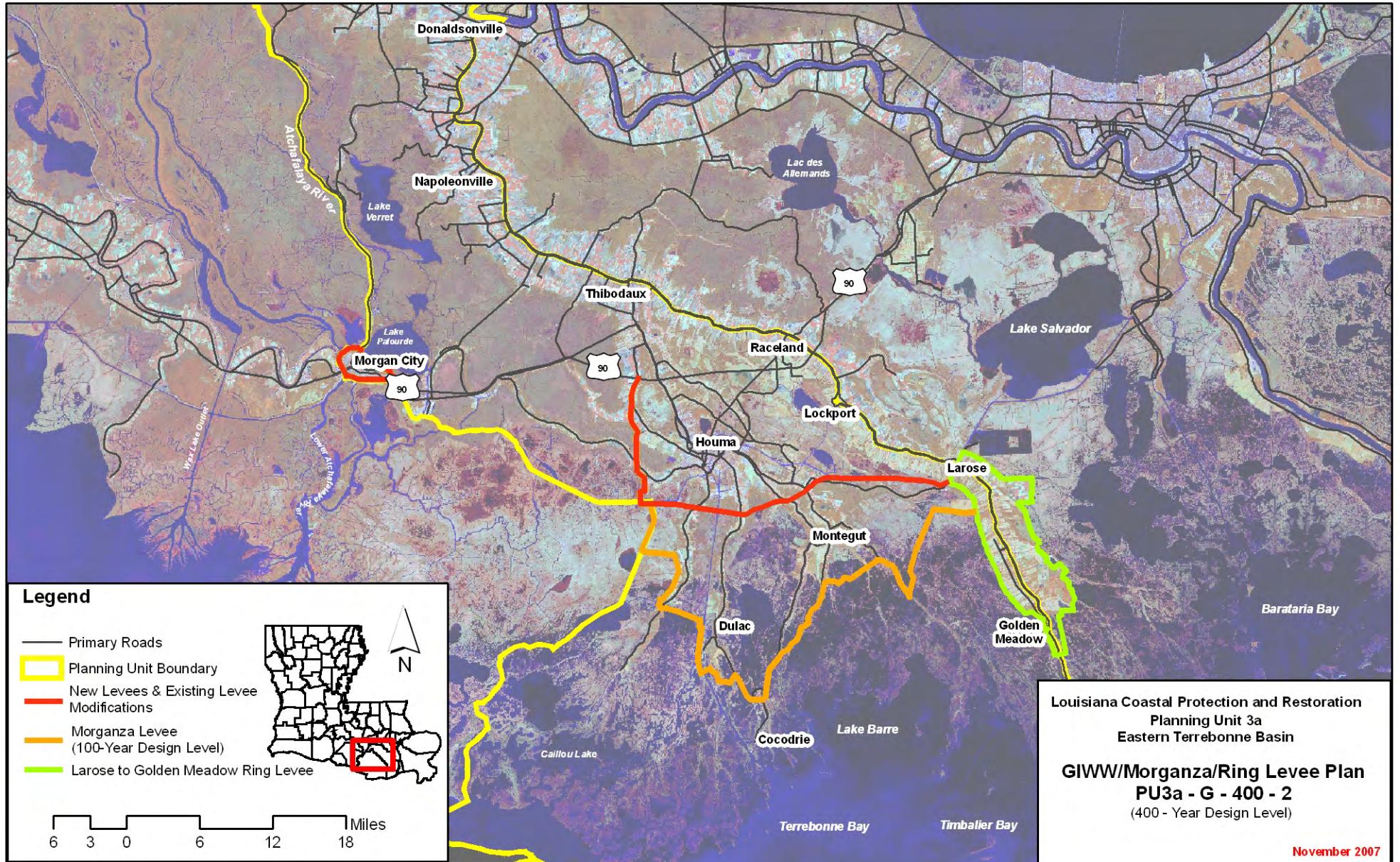
Planning Unit:	3a	Alt. No.:	PU3a-G-400-2	Category:	Coastal Restoration + Structural Measures
Alternative Description:	Sustain coastal landscape through restoration. Construct Morganza to the Gulf levee at the 100-year design level with a second levee along the GIWW with tieback to high ground south of Thibodaux and ring levee around Morgan City providing a 400-year levee				
Coastal Component:	R1	Nonstructural Component:		None	
Structural Component:	See alternative description above.				

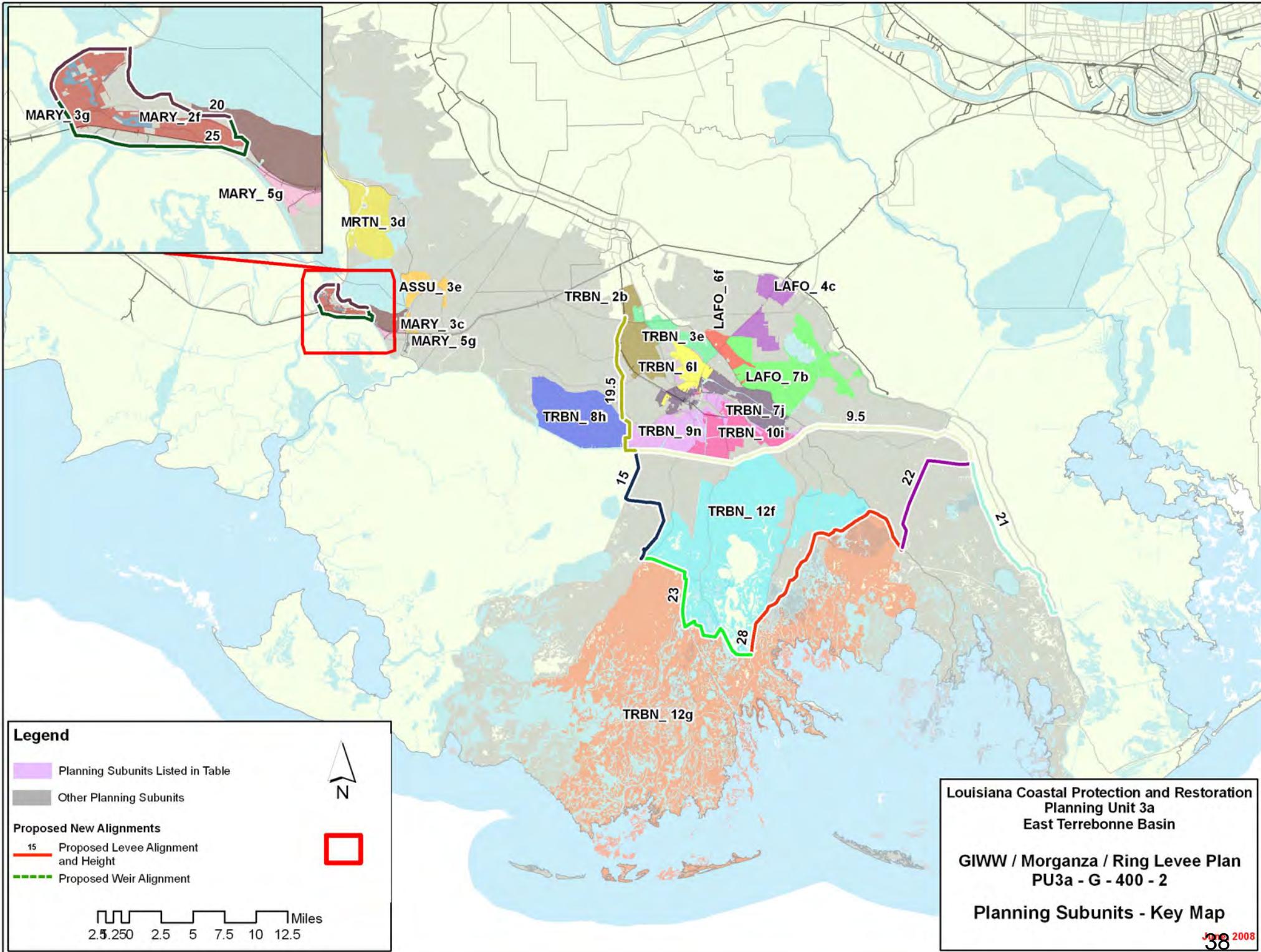
Scenario	Future Conditions (Relative Sea Level Rise (RSLR) and Redevelopment Assumptions)	Uncertainty	Results by Scenario with Uncertainty Bands								
			Life Cycle Cost	Population Impacted	Residual Damages	Gross Regional Output Impacted	Employment Impacted	People's Earned Income Impacted	Archeo. Sites Protected	Historic Properties Protected	Historic Districts Protected
			Ann. Equiv. \$ Millions	Ann. Equiv. #	Ann. Equiv. \$ Millions	Ann. Equiv. \$ Millions	Ann. Equiv. #	Ann. Equiv. \$ Millions	# Sites	# Properties	# Districts
1	Low RSLR High Employment Dispersed Population	High	2,476	6,212	254	371	1,081	69	174	13	1
		Mid		8,210	377	585	1,871	111	151	11	1
		Low		9,659	514	715	2,489	142	128	5	1
2	High RSLR High Employment Dispersed Population	High	2,502	6,675	281	469	1,243	88	174	11	1
		Mid		8,582	416	702	2,082	134	151	9	1
		Low		9,943	556	812	2,645	161	128	4	1
3	Low RSLR Business-as-Usual Compact Population	High	2,476	5,489	247	377	1,077	70	174	13	1
		Mid		7,549	368	583	1,860	111	151	11	1
		Low		8,923	497	701	2,441	140	128	5	1
4	High RSLR Business-as-Usual Compact Population	High	2,502	5,846	273	335	1,260	91	174	11	1
		Mid		7,830	402	436	2,069	134	151	9	1
		Low		9,106	532	484	2,619	161	128	4	1

Other Results			Wetlands Created/Protected		Scenario 1	Scenario 2	Scenario 3	Scenario 4
Construction Time (years)			After 50 yrs (% of baseline)		98	97	98	97
Direct Wetland Impacts (acres)			After 100 yrs (% of baseline)		110	100	110	100
Indirect Impacts (unitless)			Present Value of Life Cycle Costs (\$ Millions)					
Spatial Integrity (unitless)			Coastal Component		23,276	23,703	23,276	23,703
Non-Federal Share of Present Value of Life Cycle Costs	Scenario	(\$ Millions)	Nonstructural Component		0	0	0	0
	1 / 2	17,073	Structural Component		25,212	25,285	25,212	25,285
	3 / 4	17,073	Total Project		48,488	48,988	48,488	48,988

2075 Residual Risk / Damages - Low Uncertainty (\$ Millions)								Planning Unit 3a Structural Plan GIWW Alt 400-year Design	
Frequency	Scenario 1		Scenario 2		Scenario 3		Scenario 4		
	No Action	With Proj							
10-year	1,460	403	2,472	729	1,422	392	2,425	764	
100-year	10,629	2,080	15,966	2,668	9,695	2,053	13,659	2,529	
400-year	22,650	3,483	25,236	3,699	17,848	3,198	19,693	3,353	
1,000-year	26,922	10,993	28,128	11,127	20,766	9,148	21,591	9,227	
2,000-year	28,659	11,503	29,317	11,520	21,942	9,600	22,348	9,626	

Note: Present Value costs and Annual Equivalent numbers are calculated for the period from 2010 to 2075 at common base year 2025 using a 4.7%/8% Federal discount rate. All dollar metrics are based on 2007 price levels.





Alternative: PU3a-G-400-2
Water Surface Elevations (feet - NAVD88 2004.65)

Planning Sub Unit	2010 (Base) Conditions						2060 (Future) Conditions					
	100-yr Event		400-year Event		1,000-yr Event		100-yr Event		400-year Event		1,000-yr Event	
	Without Project	With Project	Without Project	With Project	Without Project	With Project	Without Project	With Project	Without Project	With Project	Without Project	With Project
ASSU_3e	3.7	4.4	3.9	4.6	4.3	5.0	6.9	7.6	7.1	7.8	7.5	8.2
LAFO_4c	7.0	1.3	11.7	1.4	13.6	9.5	10.2	1.3	14.9	1.4	16.8	9.5
LAFO_6f	8.4	1.3	13.4	1.4	16.7	9.5	11.6	1.3	16.6	1.4	19.9	9.5
LAFO_7b	7.8	1.3	11.5	1.4	13.6	9.5	11.0	1.3	14.7	1.4	16.8	9.5
MARY_2f	6.3	0.8	8.5	1.3	9.9	2.8	9.5	0.8	11.7	1.3	13.1	2.8
MARY_3c	6.3	7.0	10.8	11.5	13.1	13.9	9.5	10.2	14.0	14.7	16.3	17.1
MARY_3g	6.1	0.8	9.6	1.3	11.4	2.8	9.3	0.8	12.8	1.3	14.6	2.8
MARY_5g	7.8	8.5	9.9	10.6	12.0	12.7	11.0	11.7	13.1	13.8	15.2	15.9
MRTN_3d	3.8	4.5	5.9	6.6	7.1	7.8	7.0	7.7	9.1	9.8	10.3	11.0
TRBN_10i	11.2	1.3	16.1	1.4	19.5	9.5	14.4	1.3	19.3	1.4	22.7	9.5
TRBN_12f	13.5	1.0	18.0	6.6	20.8	15.0	16.7	1.0	21.2	6.6	24.0	15.0
TRBN_12g	13.2	14.7	16.9	18.9	19.0	21.3	16.1	17.9	19.6	22.1	21.8	24.5
TRBN_2b	6.6	1.3	9.5	1.4	12.8	9.5	9.8	1.3	12.7	1.4	16.0	9.5
TRBN_3e	4.9	1.3	8.8	1.4	11.7	9.5	8.1	1.3	12.0	1.4	14.9	9.5
TRBN_6l	7.8	1.3	8.8	1.4	10.5	9.5	11.0	1.3	12.0	1.4	13.7	9.5
TRBN_7j	9.3	1.3	14.0	1.4	16.3	9.5	12.5	1.3	17.2	1.4	19.5	9.5
TRBN_8h	9.7	9.9	14.5	14.8	17.4	17.7	14.3	13.1	18.7	18.0	20.7	20.9
TRBN_9n	8.4	1.3	12.1	1.4	14.1	9.5	11.6	1.3	15.3	1.4	17.3	9.5
Evaluation Parameters	Confidence Level:			90%			Levee Design:			No Friction Waves		
	Future Relative Sea Level Rise:			3.2 feet			Levee Overtopping:			No Friction Waves		

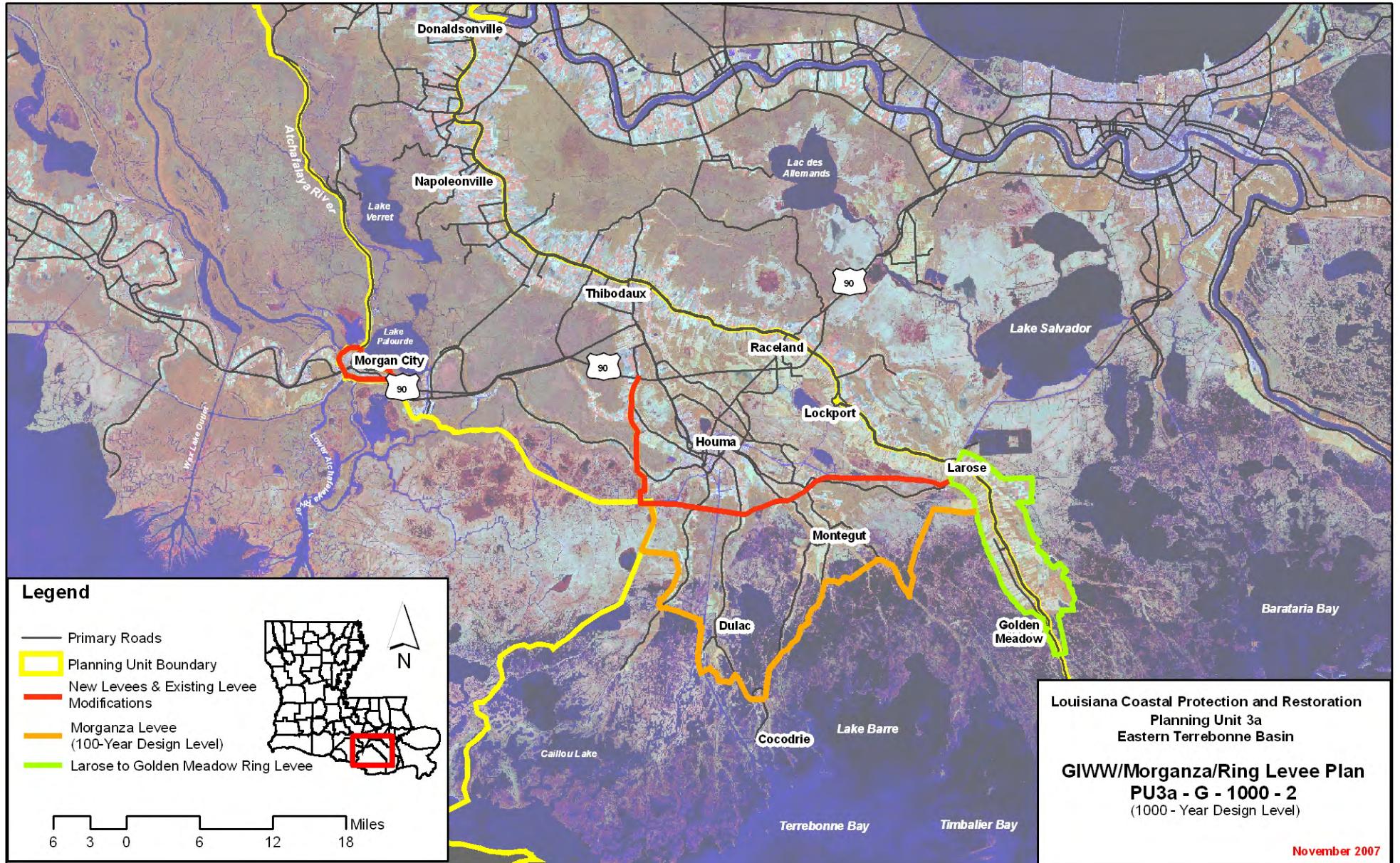
Planning Unit:	3a	Alt. No.:	PU3a-G-1000-2	Category:	Coastal Restoration + Structural Measures
Alternative Description:	Sustain coastal landscape through restoration. Construct Morganza to the Gulf levee at the 100-year design level and a second levee along the GIWW with tieback to high ground south of Thibodaux and ring levee around Morgan City providing a 1000-year levee				
Coastal Component:	R1	Nonstructural Component:		None	
Structural Component:	See alternative description above.				

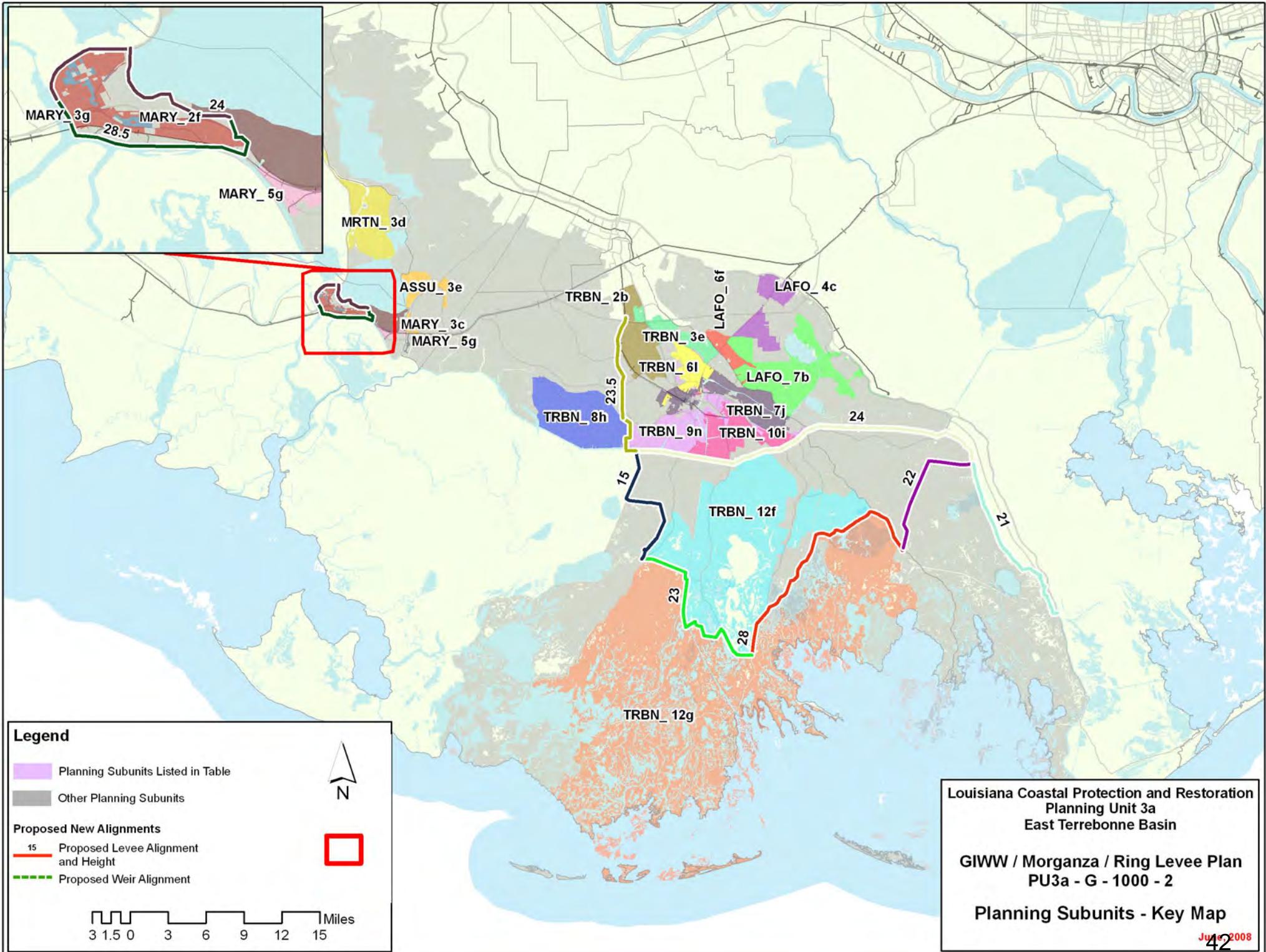
Scenario	Future Conditions (Relative Sea Level Rise (RSLR) and Redevelopment Assumptions)	Uncertainty	Results by Scenario with Uncertainty Bands								
			Life Cycle Cost	Population Impacted	Residual Damages	Gross Regional Output Impacted	Employment Impacted	People's Earned Income Impacted	Archeo. Sites Protected	Historic Properties Protected	Historic Districts Protected
			Ann. Equiv. \$ Millions	Ann. Equiv. #	Ann. Equiv. \$ Millions	Ann. Equiv. \$ Millions	Ann. Equiv. #	Ann. Equiv. \$ Millions	# Sites	# Properties	# Districts
1	Low RSLR High Employment Dispersed Population	High	2,599	6,050	246	358	1,036	66	174	17	1
		Mid		8,047	370	572	1,826	108	151	16	1
		Low		9,493	506	703	2,442	139	128	16	1
2	High RSLR High Employment Dispersed Population	High	2,625	6,512	274	456	1,199	85	174	16	1
		Mid		8,419	408	690	2,038	131	151	16	1
		Low		9,778	548	799	2,599	158	128	16	1
3	Low RSLR Business-as-Usual Compact Population	High	2,599	5,339	240	365	1,034	67	174	17	1
		Mid		7,399	361	570	1,817	108	151	16	1
		Low		8,768	490	688	2,397	137	128	16	1
4	High RSLR Business-as-Usual Compact Population	High	2,625	5,696	267	323	1,218	88	174	16	1
		Mid		7,680	396	424	2,026	132	151	16	1
		Low		8,951	525	472	2,575	158	128	16	1

Other Results			Wetlands Created/Protected		Scenario 1	Scenario 2	Scenario 3	Scenario 4
Construction Time (years)			After 50 yrs (% of baseline)		98	97	98	97
Direct Wetland Impacts (acres)			After 100 yrs (% of baseline)		110	100	110	100
Indirect Impacts (unitless)			Present Value of Life Cycle Costs (\$ Millions)					
Spatial Integrity (unitless)			Coastal Component		23,276	23,703	23,276	23,703
Non-Federal Share of Present Value of Life Cycle Costs	Scenario	(\$ Millions)	Nonstructural Component		0	0	0	0
	1 / 2	17,926	Structural Component		27,625	27,703	27,625	27,703
	3 / 4	17,926	Total Project		50,901	51,406	50,901	51,406

2075 Residual Risk / Damages - Low Uncertainty (\$ Millions)								Planning Unit 3a Structural Plan GIWW Alt 1000-year Design	
Frequency	Scenario 1		Scenario 2		Scenario 3		Scenario 4		
	No Action	With Proj							
10-year	1,460	403	2,472	729	1,422	392	2,425	764	
100-year	10,629	2,080	15,966	2,668	9,695	2,053	13,659	2,529	
400-year	22,650	3,476	25,236	3,692	17,848	3,192	19,693	3,346	
1,000-year	26,922	5,200	28,128	5,335	20,766	4,661	21,591	4,741	
2,000-year	28,659	5,655	29,317	5,672	21,942	5,035	22,348	5,060	

Note: Present Value costs and Annual Equivalent numbers are calculated for the period from 2010 to 2075 at common base year 2025 using a 4.7/8% Federal discount rate. All dollar metrics are based on 2007 price levels.





Alternative: PU3a-G-1000-2
Water Surface Elevations (feet - NAVD88 2004.65)

Planning Sub Unit	2010 (Base) Conditions						2060 (Future) Conditions					
	100-yr Event		400-year Event		1,000-yr Event		100-yr Event		400-year Event		1,000-yr Event	
	Without Project	With Project	Without Project	With Project	Without Project	With Project	Without Project	With Project	Without Project	With Project	Without Project	With Project
ASSU_3e	3.7	4.4	3.9	4.6	4.3	5.0	6.9	7.6	7.1	7.8	7.5	8.2
LAFO_4c	7.0	1.3	11.7	1.3	13.6	1.4	10.2	1.3	14.9	1.3	16.8	1.4
LAFO_6f	8.4	1.3	13.4	1.3	16.7	1.4	11.6	1.3	16.6	1.3	19.9	1.4
LAFO_7b	7.8	1.3	11.5	1.3	13.6	1.4	11.0	1.3	14.7	1.3	16.8	1.4
MARY_2f	6.3	0.8	8.5	0.9	9.9	1.3	9.5	0.8	11.7	0.9	13.1	1.3
MARY_3c	6.3	7.0	10.8	11.5	13.1	13.9	9.5	10.2	14.0	14.7	16.3	17.1
MARY_3g	6.1	0.8	9.6	0.9	11.4	1.3	9.3	0.8	12.8	0.9	14.6	1.3
MARY_5g	7.8	8.5	9.9	10.6	12.0	12.7	11.0	11.7	13.1	13.8	15.2	15.9
MRTN_3d	3.8	4.5	5.9	6.6	7.1	7.8	7.0	7.7	9.1	9.8	10.3	11.0
TRBN_10i	11.2	1.3	16.1	1.3	19.5	1.4	14.4	1.3	19.3	1.3	22.7	1.4
TRBN_12f	13.5	1.0	18.0	6.6	20.8	15.0	16.7	1.0	21.2	6.6	24.0	15.0
TRBN_12g	13.2	14.7	16.9	18.9	19.0	21.3	16.1	17.9	19.6	22.1	21.8	24.5
TRBN_2b	6.6	1.3	9.5	1.3	12.8	1.4	9.8	1.3	12.7	1.3	16.0	1.4
TRBN_3e	4.9	1.3	8.8	1.3	11.7	1.4	8.1	1.3	12.0	1.3	14.9	1.4
TRBN_6l	7.8	1.3	8.8	1.3	10.5	1.4	11.0	1.3	12.0	1.3	13.7	1.4
TRBN_7j	9.3	1.3	14.0	1.3	16.3	1.4	12.5	1.3	17.2	1.3	19.5	1.4
TRBN_8h	9.7	9.9	14.5	14.8	17.4	17.7	14.3	13.1	18.7	18.0	20.7	20.9
TRBN_9n	8.4	1.3	12.1	1.3	14.1	1.4	11.6	1.3	15.3	1.3	17.3	1.4
Evaluation Parameters	Confidence Level:			90%			Levee Design:			No Friction Waves		
	Future Relative Sea Level Rise:			3.2 feet			Levee Overtopping:			No Friction Waves		

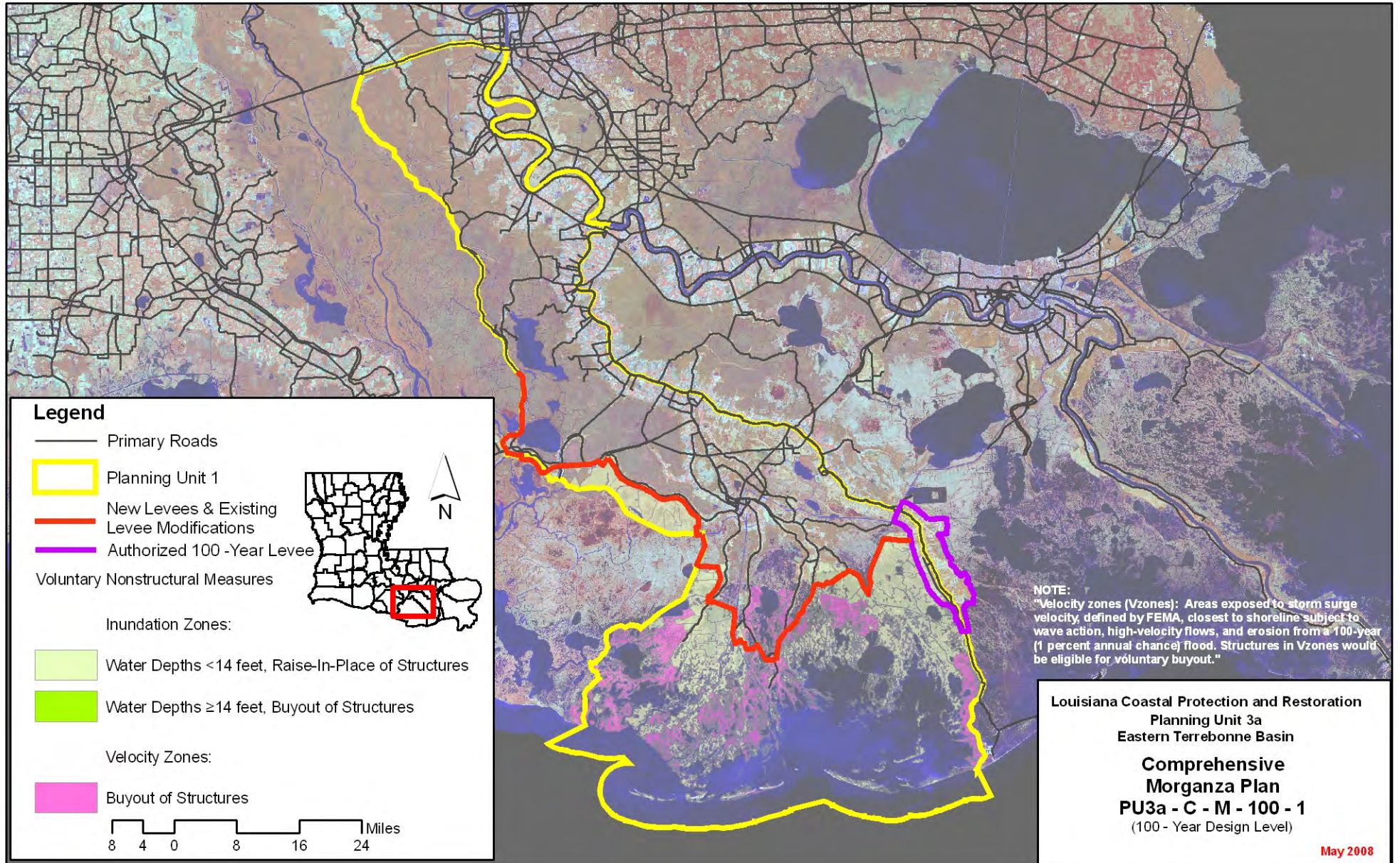
Planning Unit:	3a	Alt. No.:	PU3a-C-M-100-1	Category:	Comprehensive (Coastal+Structural+Nonstructural)
Alternative Description:	Comprehensive plan--Same coastal and structural measures as Alternative PU3a-M-100-1 but with complementary nonstructural measures to reduce residual risk.				
Coastal Component:	R1		Nonstructural Component:		100-yr complementary measures
Structural Component:	Same as Alternative PU3a-M-100-1				

Scenario	Future Conditions (Relative Sea Level Rise (RSLR) and Redevelopment Assumptions)	Uncertainty	Results by Scenario with Uncertainty Bands								
			Life Cycle Cost	Population Impacted	Residual Damages	Gross Regional Output Impacted	Employment Impacted	People's Earned Income Impacted	Archeo. Sites Protected	Historic Properties Protected	Historic Districts Protected
			Ann. Equiv. \$ Millions	Ann. Equiv. #	Ann. Equiv. \$ Millions	Ann. Equiv. \$ Millions	Ann. Equiv. #	Ann. Equiv. \$ Millions	# Sites	# Properties	# Districts
1	Low RSLR High Employment Dispersed Population	High	2,314	5,906	191	304	933	57	203	18	1
		Mid		7,646	296	517	1,718	99	180	17	1
		Low		9,095	426	651	2,332	130	157	13	0
2	High RSLR High Employment Dispersed Population	High	2,362	6,153	207	384	1,075	73	203	18	1
		Mid		7,866	320	616	1,903	118	180	14	1
		Low		9,273	455	732	2,466	145	157	8	0
3	Low RSLR Business-as-Usual Compact Population	High	2,314	5,238	188	310	937	58	203	18	1
		Mid		7,030	289	511	1,711	99	180	17	1
		Low		8,377	409	632	2,290	127	157	13	0
4	High RSLR Business-as-Usual Compact Population	High	2,362	5,422	202	247	1,097	76	203	18	1
		Mid		7,187	309	345	1,892	118	180	14	1
		Low		8,496	432	396	2,442	144	157	8	0

Other Results			Wetlands Created/Protected		Scenario 1	Scenario 2	Scenario 3	Scenario 4
Construction Time (years)			After 50 yrs (% of baseline)		98	97	98	97
Direct Wetland Impacts (acres)			After 100 yrs (% of baseline)		110	100	110	100
Indirect Impacts (unitless)			Present Value of Life Cycle Costs (\$ Millions)					
Spatial Integrity (unitless)			Coastal Component		23,276	23,703	23,276	23,703
Non-Federal Share of Present Value of Life Cycle Costs	Scenario	(\$ Millions)	Nonstructural Component		631	631	623	623
	1 / 2	16,012	Structural Component		21,412	21,928	21,412	21,928
	3 / 4	16,009	Total Project		45,319	46,262	45,311	46,254

2075 Residual Risk / Damages - Low Uncertainty (\$ Millions)								Planning Unit 3a Comprehensive Plan Morganza Alt 100-year Design	
Frequency	Scenario 1		Scenario 2		Scenario 3		Scenario 4		
	No Action	With Proj							
10-year	1,460	107	2,472	162	1,422	99	2,425	162	
100-year	10,629	422	15,966	614	9,695	434	13,659	593	
400-year	22,650	1,852	25,236	1,934	17,848	1,752	19,693	1,830	
1,000-year	26,922	15,182	28,128	15,207	20,766	12,875	21,591	12,896	
2,000-year	28,659	20,184	29,317	20,196	21,942	16,613	22,348	16,623	

Note: Present Value costs and Annual Equivalent numbers are calculated for the period from 2010 to 2075 at common base year 2025 using a 4 7/8% Federal discount rate. All dollar metrics are based on 2007 price levels.



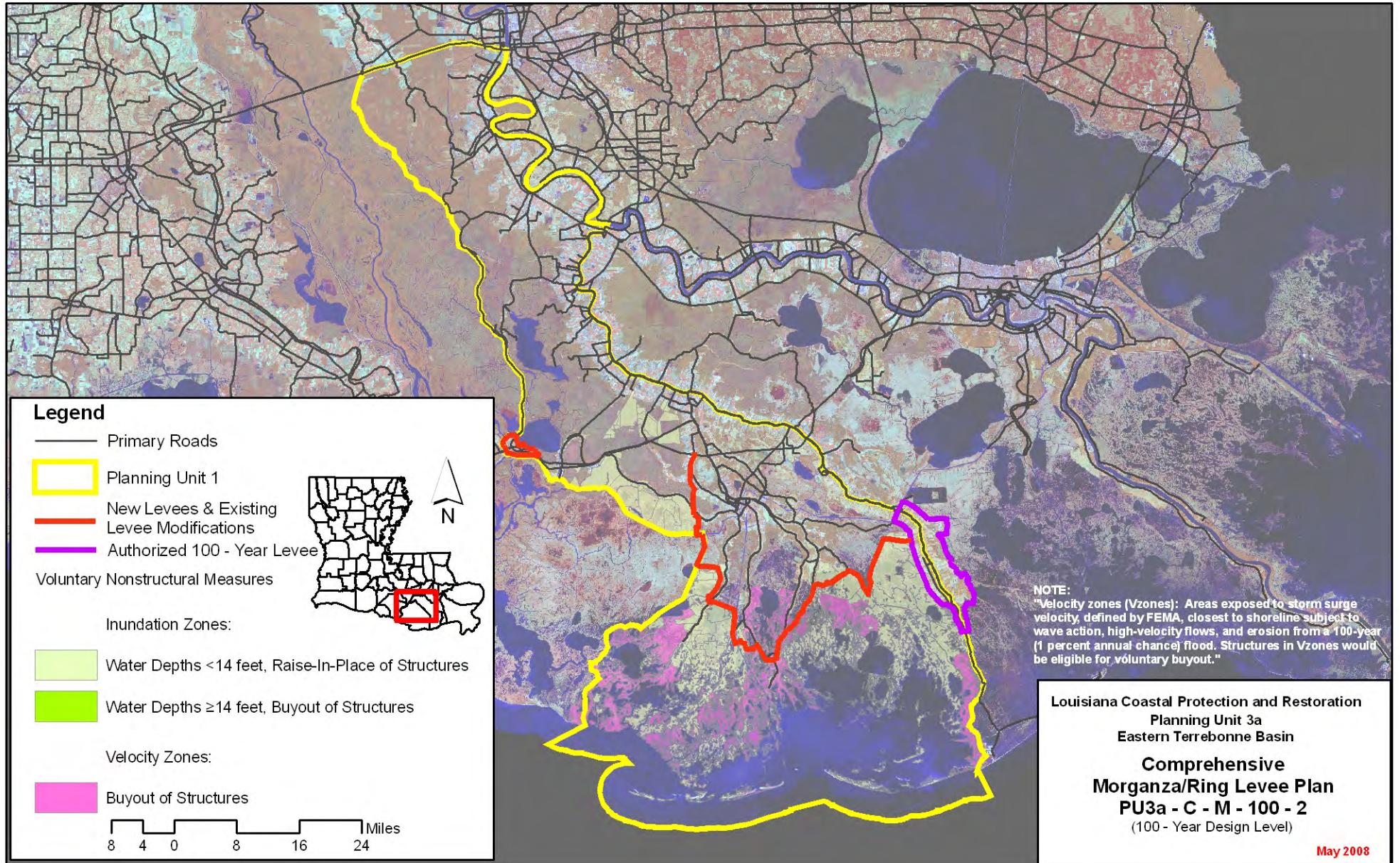
Planning Unit:	3a	Alt. No.:	PU3a-C-M-100-2	Category:	Comprehensive (Coastal+Structural+Nonstructural)	
Alternative Description:	Comprehensive plan--Same coastal and structural measures as Alternative PU3a-M-100-2 but with complementary nonstructural measures to reduce residual risk.					
Coastal Component:	R1		Nonstructural Component:		100-yr complementary measures	
Structural Component:	Same as Alternative PU3a-M-100-2					

Scenario	Future Conditions (Relative Sea Level Rise (RSLR) and Redevelopment Assumptions)	Uncertainty	Results by Scenario with Uncertainty Bands								
			Life Cycle Cost	Population Impacted	Residual Damages	Gross Regional Output Impacted	Employment Impacted	People's Earned Income Impacted	Archeo. Sites Protected	Historic Properties Protected	Historic Districts Protected
			Ann. Equiv. \$ Millions	Ann. Equiv. #	Ann. Equiv. \$ Millions	Ann. Equiv. \$ Millions	Ann. Equiv. #	Ann. Equiv. \$ Millions	# Sites	# Properties	# Districts
1	Low RSLR High Employment Dispersed Population	High	2,193	6,042	196	321	942	61	174	17	1
		Mid		8,171	322	549	1,775	106	151	14	1
		Low		9,925	483	717	2,490	143	128	10	0
2	High RSLR High Employment Dispersed Population	High	2,221	6,504	224	420	1,118	81	174	15	1
		Mid		8,542	361	667	1,986	129	151	11	0
		Low		10,209	526	810	2,646	161	128	8	0
3	Low RSLR Business-as-Usual Compact Population	High	2,193	5,330	193	332	948	62	174	17	1
		Mid		7,496	315	551	1,773	106	151	14	1
		Low		9,137	466	704	2,449	141	128	10	0
4	High RSLR Business-as-Usual Compact Population	High	2,221	5,687	218	292	1,147	85	174	15	1
		Mid		7,777	350	405	1,981	130	151	11	0
		Low		9,320	502	484	2,626	162	128	8	0

Other Results			Wetlands Created/Protected		Scenario 1	Scenario 2	Scenario 3	Scenario 4
Construction Time (years)			After 50 yrs (% of baseline)		98	97	98	97
Direct Wetland Impacts (acres)			After 100 yrs (% of baseline)		110	100	110	100
Indirect Impacts (unitless)			Present Value of Life Cycle Costs (\$ Millions)					
Spatial Integrity (unitless)			Coastal Component		23,276	23,703	23,276	23,703
Non-Federal Share of Present Value of Life Cycle Costs	Scenario	(\$ Millions)	Nonstructural Component		695	695	689	689
	1 / 2	15,217	Structural Component		18,983	19,098	18,983	19,098
	3 / 4	15,215	Total Project		42,954	43,496	42,947	43,490

2075 Residual Risk / Damages - Low Uncertainty (\$ Millions)								Planning Unit 3a Comprehensive Plan Morganza Alt 100-year Design	
Frequency	Scenario 1		Scenario 2		Scenario 3		Scenario 4		
	No Action	With Proj							
10-year	1,460	152	2,472	423	1,422	153	2,425	472	
100-year	10,629	1,548	15,966	2,236	9,695	1,550	13,659	2,129	
400-year	22,650	5,133	25,236	5,406	17,848	4,777	19,693	4,985	
1,000-year	26,922	20,469	28,128	20,631	20,766	16,774	21,591	16,877	
2,000-year	28,659	20,694	29,317	20,723	21,942	16,944	22,348	16,980	

Note: Present Value costs and Annual Equivalent numbers are calculated for the period from 2010 to 2075 at common base year 2025 using a 4 7/8% Federal discount rate. All dollar metrics are based on 2007 price levels.



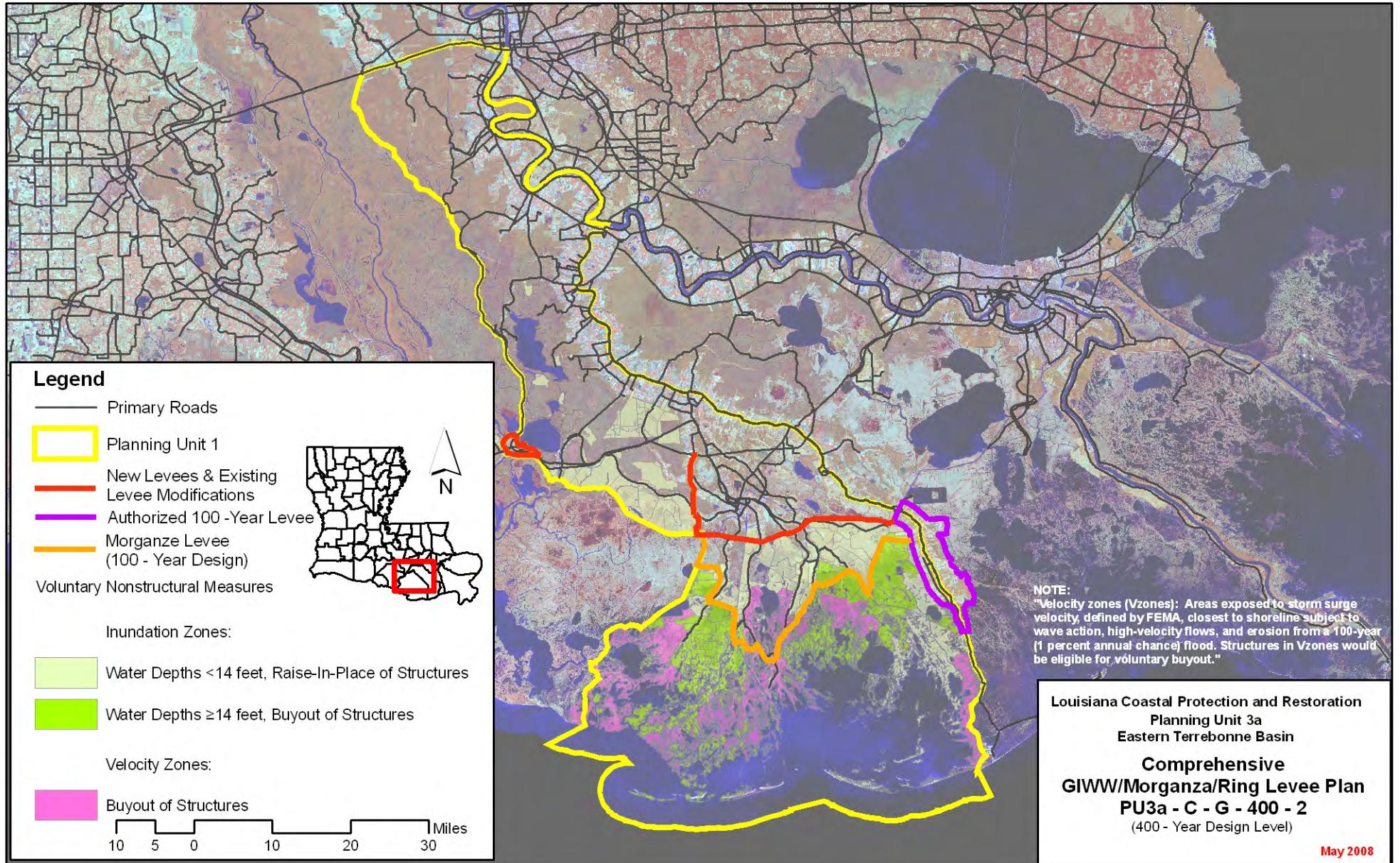
Planning Unit:	3a	Alt. No.:	PU3a-C-G-400-2	Category:	Comprehensive (Coastal+Structural+Nonstructural)
Alternative Description:	Comprehensive plan--Same coastal and structural measures as Alternative PU3a-G-400-2 but with complementary nonstructural measures to reduce residual risk.				
Coastal Component:	R1		Nonstructural Component:		400-yr complementary measures
Structural Component:	Same as Alternative PU3a-G-400-2				

Scenario	Future Conditions (Relative Sea Level Rise (RSLR) and Redevelopment Assumptions)	Uncertainty	Results by Scenario with Uncertainty Bands								
			Life Cycle Cost	Population Impacted	Residual Damages	Gross Regional Output Impacted	Employment Impacted	People's Earned Income Impacted	Archeo. Sites Protected	Historic Properties Protected	Historic Districts Protected
			Ann. Equiv. \$ Millions	Ann. Equiv. #	Ann. Equiv. \$ Millions	Ann. Equiv. \$ Millions	Ann. Equiv. #	Ann. Equiv. \$ Millions	# Sites	# Properties	# Districts
1	Low RSLR High Employment Dispersed Population	High	2,553	5,990	198	274	873	51	174	13	1
		Mid		7,986	311	411	1,412	79	151	11	1
		Low		9,429	434	528	1,938	104	128	5	1
2	High RSLR High Employment Dispersed Population	High	2,579	6,452	223	330	977	62	174	11	1
		Mid		8,358	346	497	1,584	97	151	9	1
		Low		9,714	472	593	2,056	118	128	4	1
3	Low RSLR Business-as-Usual Compact Population	High	2,569	5,275	193	280	874	51	174	13	1
		Mid		7,334	303	412	1,418	79	151	11	1
		Low		8,700	418	520	1,917	103	128	5	1
4	High RSLR Business-as-Usual Compact Population	High	2,595	5,632	216	192	992	64	174	11	1
		Mid		7,615	334	232	1,583	97	151	9	1
		Low		8,884	450	267	2,049	118	128	4	1

Other Results			Wetlands Created/Protected		Scenario 1	Scenario 2	Scenario 3	Scenario 4	
Construction Time (years)			After 50 yrs (% of baseline)		98	97	98	97	
Direct Wetland Impacts (acres)			After 100 yrs (% of baseline)		110	100	110	100	
Indirect Impacts (unitless)			Present Value of Life Cycle Costs (\$ Millions)						
Non-Federal Share of Present Value of Life Cycle Costs	Spatial Integrity (unitless)		Coastal Component		23,276	23,703	23,276	23,703	
	Scenario	(\$ Millions)	Nonstructural Component		1,520	1,520	1,831	1,831	
	1 / 2	17,605	17,780	Structural Component		25,212	25,285	25,212	
3 / 4		17,714	17,889	Total Project		50,008	50,507	50,319	
2075 Residual Risk / Damages - Low Uncertainty (\$ Millions)								Planning Unit 3a Comprehensive Plan GIWW Alt 400-year Design	

Frequency	Scenario 1		Scenario 2		Scenario 3		Scenario 4	
	No Action	With Proj						
10-year	1,460	125	2,472	331	1,422	125	2,425	370
100-year	10,629	1,188	15,966	1,628	9,695	1,168	13,659	1,540
400-year	22,650	2,110	25,236	2,557	17,848	1,917	19,693	2,273
1,000-year	26,922	9,204	28,128	9,505	20,766	7,400	21,591	7,638
2,000-year	28,659	9,921	29,317	10,025	21,942	8,048	22,348	8,160

Note: Present Value costs and Annual Equivalent numbers are calculated for the period from 2010 to 2075 at common base year 2025 using a 4 7/8% Federal discount rate. All dollar metrics are based on 2007 price levels.



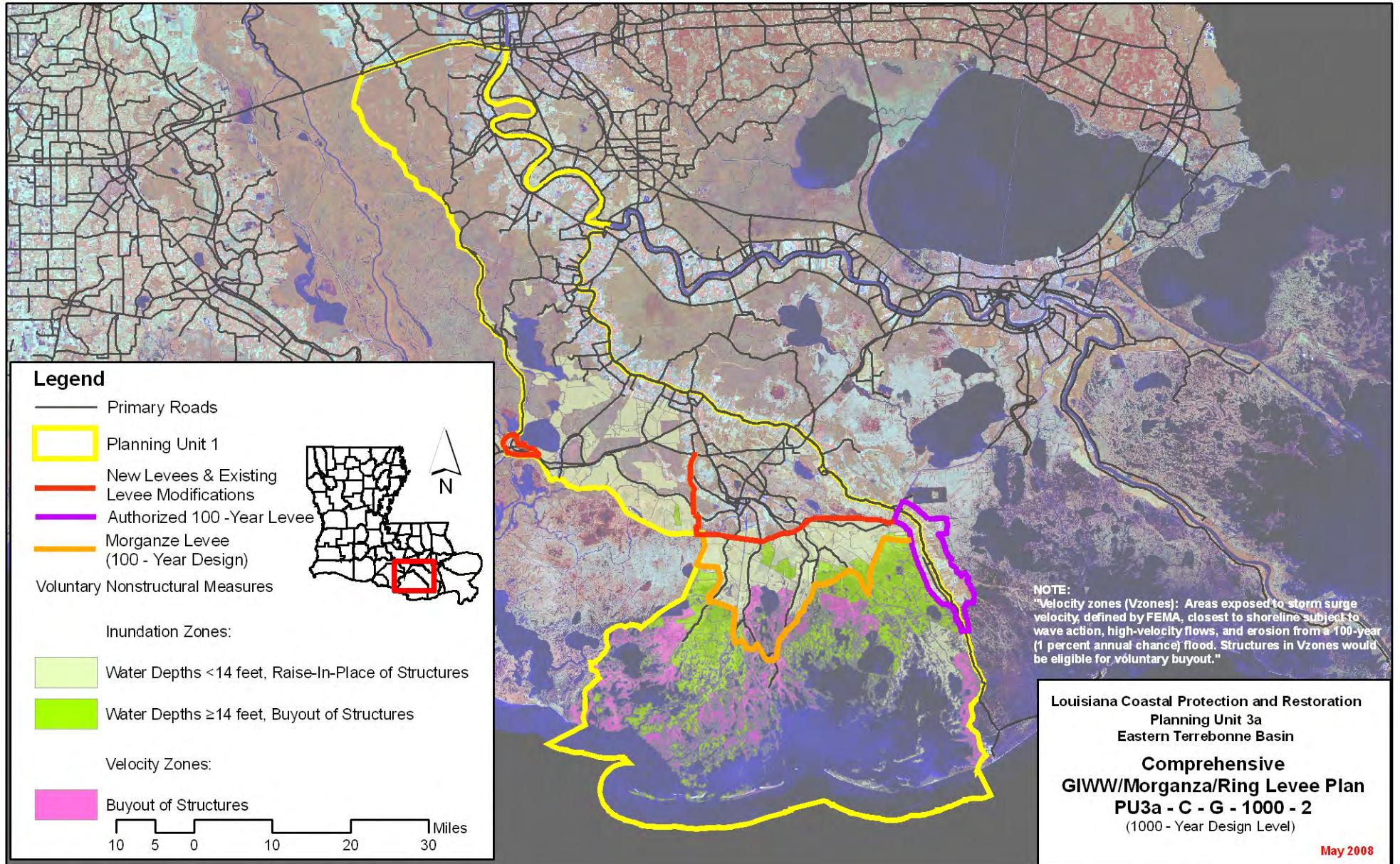
Planning Unit:	3a	Alt. No.:	PU3a-C-G-1000-2	Category:	Comprehensive (Coastal+Structural+Nonstructural)
Alternative Description:	Comprehensive plan--Same coastal and structural measures as Alternative PU3a-G-1000-2 but with complementary nonstructural measures to reduce residual risk.				
Coastal Component:	R1	Nonstructural Component:		1000-yr complementary measures	
Structural Component:	Same as Alternative PU3a-G-1000-2				

Scenario	Future Conditions (Relative Sea Level Rise (RSLR) and Redevelopment Assumptions)	Uncertainty	Results by Scenario with Uncertainty Bands								
			Life Cycle Cost	Population Impacted	Residual Damages	Gross Regional Output Impacted	Employment Impacted	People's Earned Income Impacted	Archeo. Sites Protected	Historic Properties Protected	Historic Districts Protected
			Ann. Equiv. \$ Millions	Ann. Equiv. #	Ann. Equiv. \$ Millions	Ann. Equiv. \$ Millions	Ann. Equiv. #	Ann. Equiv. \$ Millions	# Sites	# Properties	# Districts
1	Low RSLR High Employment Dispersed Population	High	2,727	5,747	189	261	828	48	174	17	1
		Mid		7,742	298	395	1,357	75	151	16	1
		Low		9,168	415	507	1,871	100	128	16	1
2	High RSLR High Employment Dispersed Population	High	2,753	6,210	212	315	927	59	174	16	1
		Mid		8,114	331	472	1,514	91	151	16	1
		Low		9,453	453	568	1,980	112	128	16	1
3	Low RSLR Business-as-Usual Compact Population	High	2,739	5,049	185	265	828	48	174	17	1
		Mid		7,106	291	391	1,361	75	151	16	1
		Low		8,455	400	493	1,843	98	128	16	1
4	High RSLR Business-as-Usual Compact Population	High	2,765	5,405	206	171	939	60	174	16	1
		Mid		7,387	319	204	1,511	91	151	16	1
		Low		8,638	431	239	1,968	112	128	16	1

Other Results			Wetlands Created/Protected		Scenario 1	Scenario 2	Scenario 3	Scenario 4
Construction Time (years)			After 50 yrs (% of baseline)		98	97	98	97
Direct Wetland Impacts (acres)			After 100 yrs (% of baseline)		110	100	110	100
Indirect Impacts (unitless)			Present Value of Life Cycle Costs (\$ Millions)					
Spatial Integrity (unitless)			Coastal Component		23,276	23,703	23,276	23,703
Non-Federal Share of Present Value of Life Cycle Costs	Scenario	(\$ Millions)		Nonstructural Component		2,504	2,504	2,745
	1 / 2	18,802	18,979	Structural Component		27,625	27,703	27,625
	3 / 4	18,887	19,063	Total Project		53,405	53,909	53,646

2075 Residual Risk / Damages - Low Uncertainty (\$ Millions)								Planning Unit 3a Comprehensive Plan GIWW Alt 1000-year Design	
Frequency	Scenario 1		Scenario 2		Scenario 3		Scenario 4		
	No Action	With Proj							
10-year	1,460	102	2,472	276	1,422	98	2,425	289	
100-year	10,629	977	15,966	1,358	9,695	931	13,659	1,250	
400-year	22,650	1,651	25,236	1,951	17,848	1,438	19,693	1,681	
1,000-year	26,922	2,272	28,128	2,718	20,766	1,853	21,591	2,230	
2,000-year	28,659	3,156	29,317	3,313	21,942	2,627	22,348	2,796	

Note: Present Value costs and Annual Equivalent numbers are calculated for the period from 2010 to 2075 at common base year 2025 using a 4.7%/8% Federal discount rate. All dollar metrics are based on 2007 price levels.



**LOUISIANA COASTAL PROTECTION AND RESTORATION FINAL TECHNICAL REPORT
EVALUATION RESULTS APPENDIX**

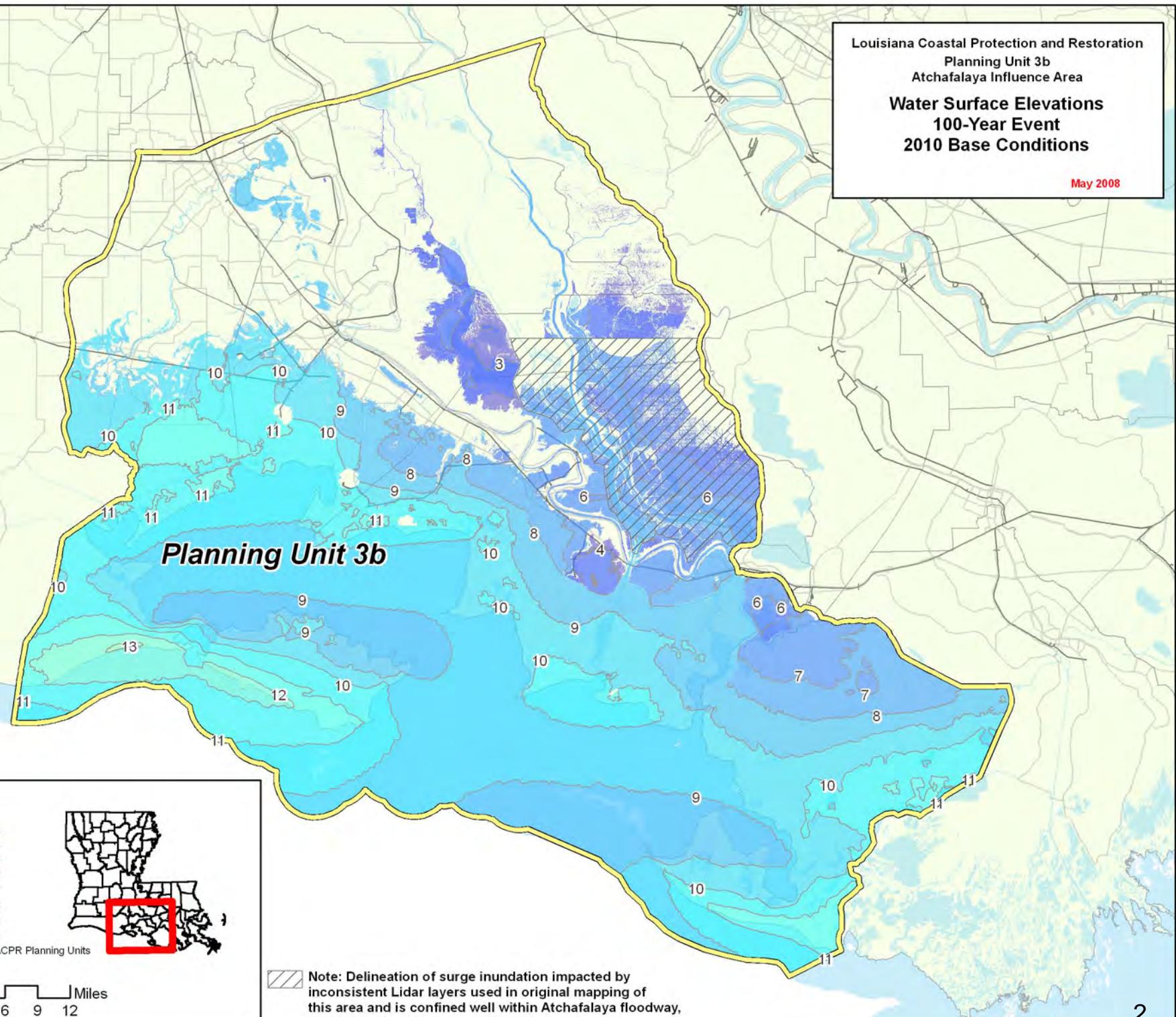
Planning Unit 3b

Louisiana Coastal Protection and Restoration

Planning Unit 3b
Atchafalaya Influence Area

Water Surface Elevations
100-Year Event
2010 Base Conditions

May 2008



Louisiana Coastal Protection and Restoration

Planning Unit 3b
Atchafalaya Influence Area

Water Depths
100-Year Event
2010 Base Conditions

May 2008

Planning Unit 3b

Legend

0	7	14	21
1	8	15	22
2	9	16	23
3	10	17	24
4	11	18	25
5	12	19	
6	13	20	



Miles
4 2 0 4 8 12 16



Note: Delineation of surge inundation impacted by inconsistent Lidar layers used in original mapping of this area and is confined well within Atchafalaya floodway, causing no impact on evaluation of alternatives.

Louisiana Coastal Protection and Restoration

Planning Unit 3b

Atchafalaya Influence Area

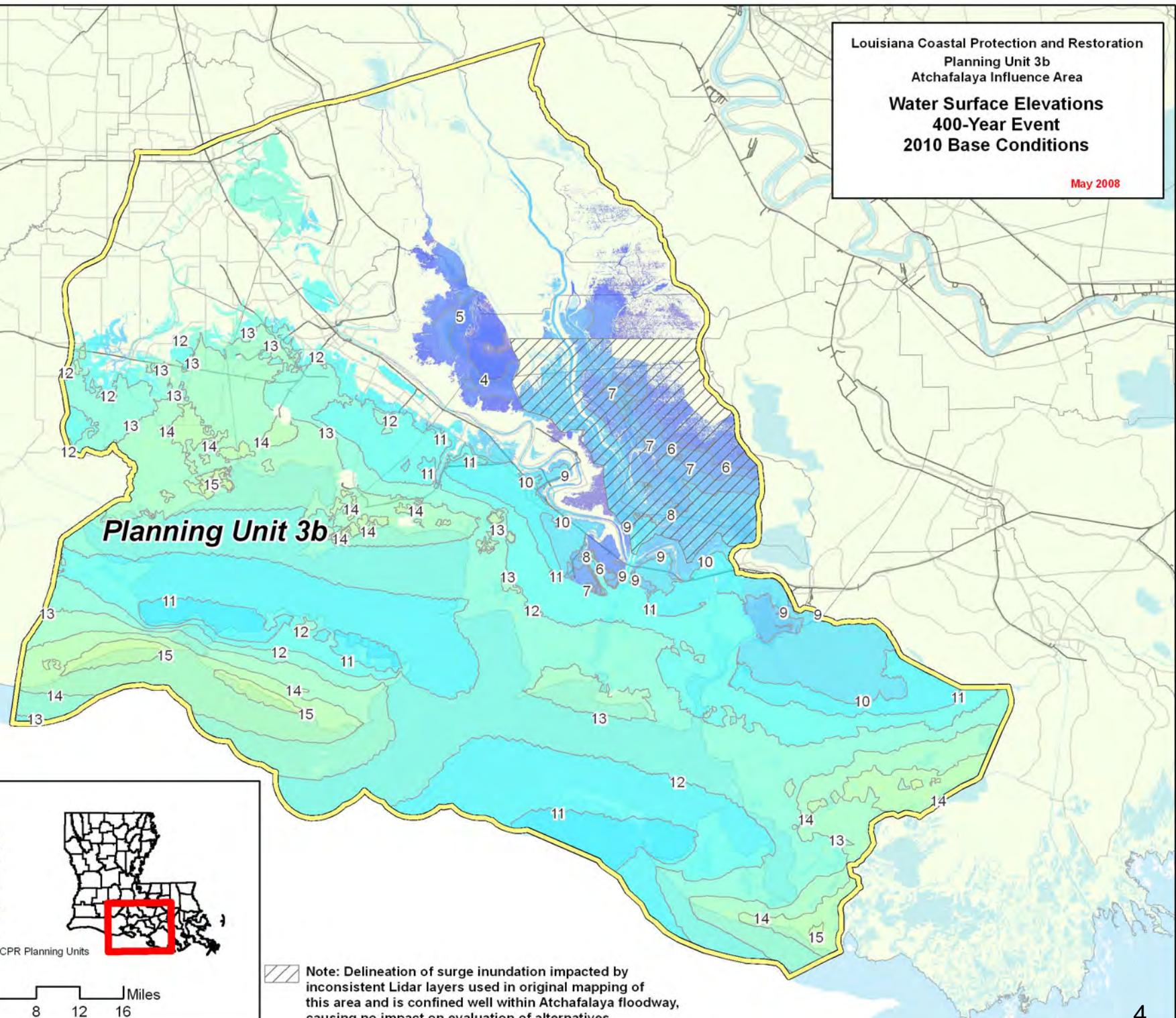
Water Surface Elevations

400-Year Event

2010 Base Conditions

May 2008

Planning Unit 3b



Miles
4 2 0 4 8 12 16

Louisiana Coastal Protection and Restoration

Planning Unit 3b
Atchafalaya Influence Area

Water Depths
400-Year Event
2010 Base Conditions

May 2008

Planning Unit 3b

Legend

0	7	14	21
1	8	15	22
2	9	16	23
3	10	17	24
4	11	18	25
5	12	19	LACPR Planning Units
6	13	20	



Miles
4 2 0 4 8 12 16



Note: Delineation of surge inundation impacted by inconsistent Lidar layers used in original mapping of this area and is confined well within Atchafalaya floodway, causing no impact on evaluation of alternatives.

Louisiana Coastal Protection and Restoration

Planning Unit 3b

Atchafalaya Influence Area

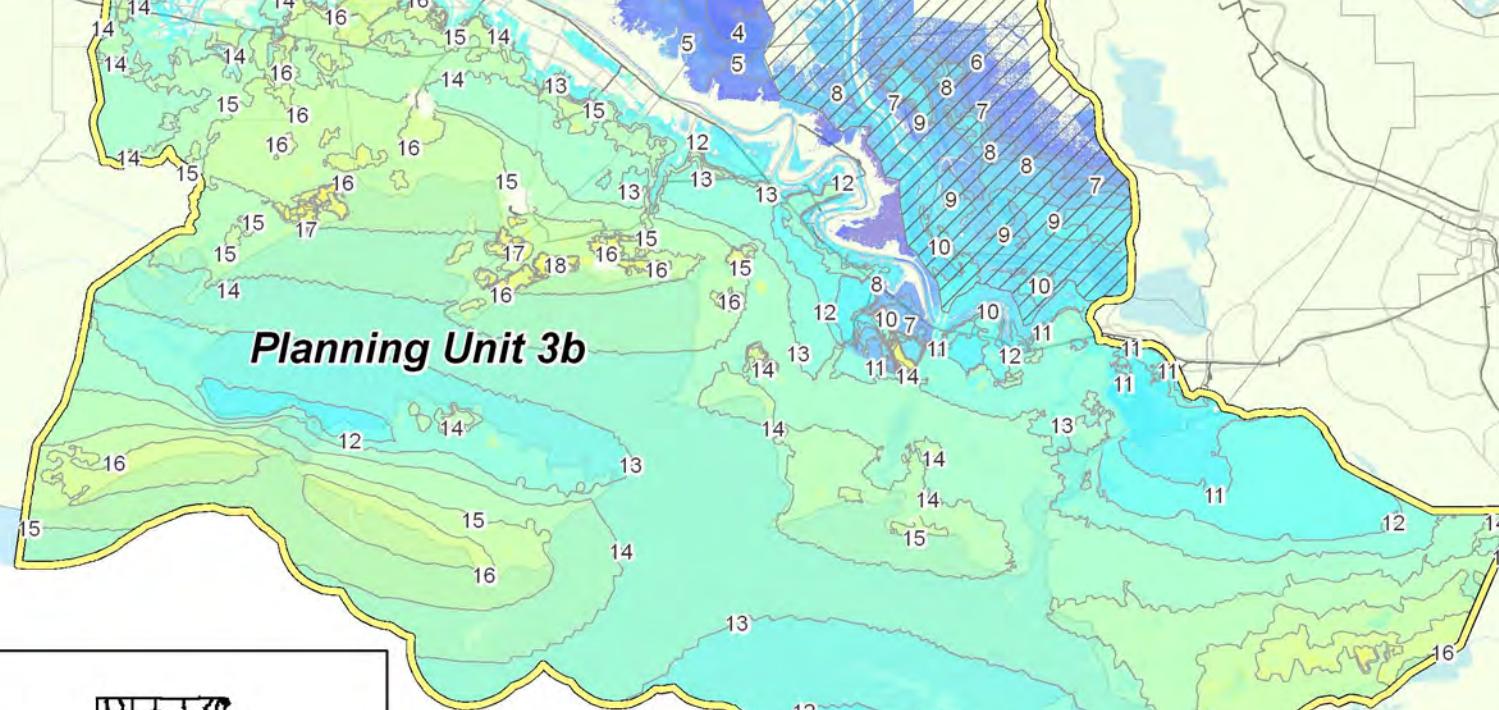
Water Surface Elevations

1000-Year Event

2010 Base Conditions

May 2008

Planning Unit 3b



Legend

-7	3	13	23
-6	4	14	24
-5	5	15	25
-4	6	16	26
-3	7	17	27
-2	8	18	28
-1	9	19	29
0	10	20	30
1	11	21	LACPW Planning Units
2	12	22	



Miles
4 2 0 4 8 12 16



Note: Delineation of surge inundation impacted by inconsistent Lidar layers used in original mapping of this area and is confined well within Atchafalaya floodway, causing no impact on evaluation of alternatives.

Louisiana Coastal Protection and Restoration

Planning Unit 3b
Atchafalaya Influence Area

Water Depths
1000-Year Event
2010 Base Conditions

May 2008

Planning Unit 3b

Legend

0	7	14	21
1	8	15	22
2	9	16	23
3	10	17	24
4	11	18	25
5	12	19	
6	13	20	



Miles
4 2 0 4 8 12 16



Note: Delineation of surge inundation impacted by inconsistent Lidar layers used in original mapping of this area and is confined well within Atchafalaya floodway, causing no impact on evaluation of alternatives.

Louisiana Coastal Protection and Restoration

Planning Unit 3b

Atchafalaya Influence Area

Water Surface Elevations

100-Year Event

2060 No Action

May 2008

Planning Unit 3b

Legend

-7	3	13	23
-6	4	14	24
-5	5	15	25
-4	6	16	26
-3	7	17	27
-2	8	18	28
-1	9	19	29
0	10	20	30
1	11	21	LACP Planning Units
2	12	22	



4 2 0 4 8 12 16 Miles

Note: Future "no-action" frequencies or event surfaces are based on ADCIRC simulated storm surge values for a projected "50-yr" future coast based on no additional coastal restoration. Statistical surfaces shown include the added effects of relative sea level rise, i.e. eustatic plus local subsidence.

Louisiana Coastal Protection and Restoration

Planning Unit 3b

Atchafalaya Influence Area

**Water Surface Elevations
400-Year Event
2060 No Action**

May 2008

Planning Unit 3b

Legend

-7	3	13	23
-6	4	14	24
-5	5	15	25
-4	6	16	26
-3	7	17	27
-2	8	18	28
-1	9	19	29
0	10	20	30
1	11	21	LACP Planning Units
2	12	22	



Miles
4 2 0 4 8 12 16

Note: Future "no-action" frequencies or event surfaces are based on ADCIRC simulated storm surge values for a projected "50-yr" future coast based on no additional coastal restoration. Statistical surfaces shown include the added effects of relative sea level rise, i.e. eustatic plus local subsidence.

Louisiana Coastal Protection and Restoration

Planning Unit 3b
Atchafalaya Influence Area

Water Surface Elevations
1000-Year Event
2060 No Action

May 2008

Planning Unit 3b

Legend

-7	3	13	23
-6	4	14	24
-5	5	15	25
-4	6	16	26
-3	7	17	27
-2	8	18	28
-1	9	19	29
0	10	20	30
1	11	21	LACP Planning Units
2	12	22	



Miles
4 2 0 4 8 12 16

Note: Future "no-action" frequencies or event surfaces are based on ADCIRC simulated storm surge values for a projected "50-yr" future coast based on no additional coastal restoration. Statistical surfaces shown include the added effects of relative sea level rise, i.e. eustatic plus local subsidence.

Louisiana Coastal Protection and Restoration

Planning Unit 3b
Atchafalaya Influence Area

Water Surface Elevations
100-Year Event
2060 Maintain

May 2008

Planning Unit 3b

13



Legend

-7	3	13	23
-6	4	14	24
-5	5	15	25
-4	6	16	26
-3	7	17	27
-2	8	18	28
-1	9	19	29
0	10	20	30
1	11	21	LACP R Planning Units
2	12	22	

4 2 0 4 8 12 16 Miles

Note 1: Future "maintain coast" frequencies or event surfaces are based on ADCIRC simulated storm surge values for the base coastline. Statistical surfaces shown include the added effects of relative sea level rise, i.e. eustatic plus local subsidence.

Note 2: Delineation of surge inundation impacted by inconsistent Lidar layers used in original mapping of this area and is confined well within Atchafalaya floodway, causing no impact on evaluation of alternatives.

Louisiana Coastal Protection and Restoration

Planning Unit 3b
Atchafalaya Influence Area

**Water Surface Elevations
400-Year Event
2060 Maintain**

May 2008

Planning Unit 3b



Legend

-7	3	13	23
-6	4	14	24
-5	5	15	25
-4	6	16	26
-3	7	17	27
-2	8	18	28
-1	9	19	29
0	10	20	30
1	11	21	LACP R Planning Units
2	12	22	

4 2 0 4 8 12 16 Miles

Note 1: Future "maintain coast" frequencies or event surfaces are based on ADCIRC simulated storm surge values for the base coastline. Statistical surfaces shown include the added effects of relative sea level rise, i.e. eustatic plus local subsidence.

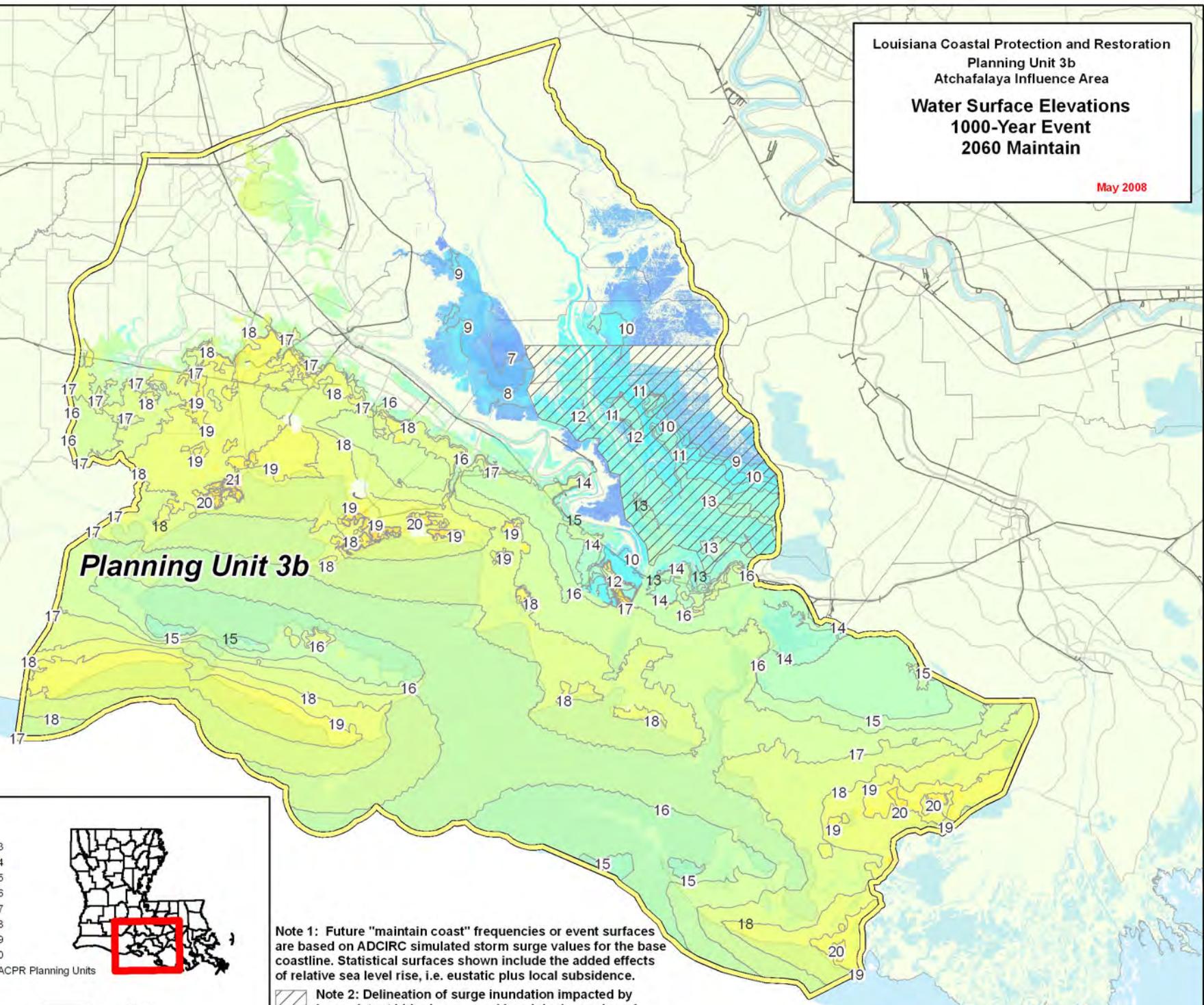
Note 2: Delineation of surge inundation impacted by inconsistent Lidar layers used in original mapping of this area and is confined well within Atchafalaya floodway, causing no impact on evaluation of alternatives.

Louisiana Coastal Protection and Restoration

Planning Unit 3b
Atchafalaya Influence Area

Water Surface Elevations
1000-Year Event
2060 Maintain

May 2008



Planning Unit:	3b	Alt. No.:	PU3b-0	Category:	No Action
Alternative Description:	No action (without project) alternative.				
Coastal Component:	Degraded coast-increasing risk.	Nonstructural Component:		None	
Structural Component:	No new levees or increases in risk reduction level for existing levees.				

Scenario	Future Conditions (Relative Sea Level Rise (RSLR) and Redevelopment Assumptions)	Uncertainty	Results by Scenario with Uncertainty Bands								
			Life Cycle Cost	Population Impacted	Residual Damages	Gross Regional Output Impacted	Employment Impacted	People's Earned Income Impacted	Archeo. Sites Protected	Historic Properties Protected	Historic Districts Protected
			Ann. Equiv. \$ Millions	Ann. Equiv. #	Ann. Equiv. \$ Millions	Ann. Equiv. \$ Millions	Ann. Equiv. #	Ann. Equiv. \$ Millions	# Sites	# Properties	# Districts
1	Low RSLR High Employment Dispersed Population	High	0	4,331	203	343	1,176	78	19	13	1
		Mid		6,163	326	503	1,849	118	17	10	1
		Low		7,655	469	614	2,248	141	14	6	0
2	High RSLR High Employment Dispersed Population	High	0	4,852	242	272	1,347	94	19	11	1
		Mid		6,771	379	341	2,017	133	17	8	0
		Low		8,345	529	383	2,357	150	14	3	0
3	Low RSLR Business-as-Usual Compact Population	High	0	4,055	201	360	1,178	81	19	13	1
		Mid		5,863	323	525	1,826	119	17	10	1
		Low		7,317	460	645	2,207	142	14	6	0
4	High RSLR Business-as-Usual Compact Population	High	0	4,571	239	431	1,332	94	19	11	1
		Mid		6,445	373	605	1,997	135	17	8	0
		Low		8,000	516	706	2,338	153	14	3	0

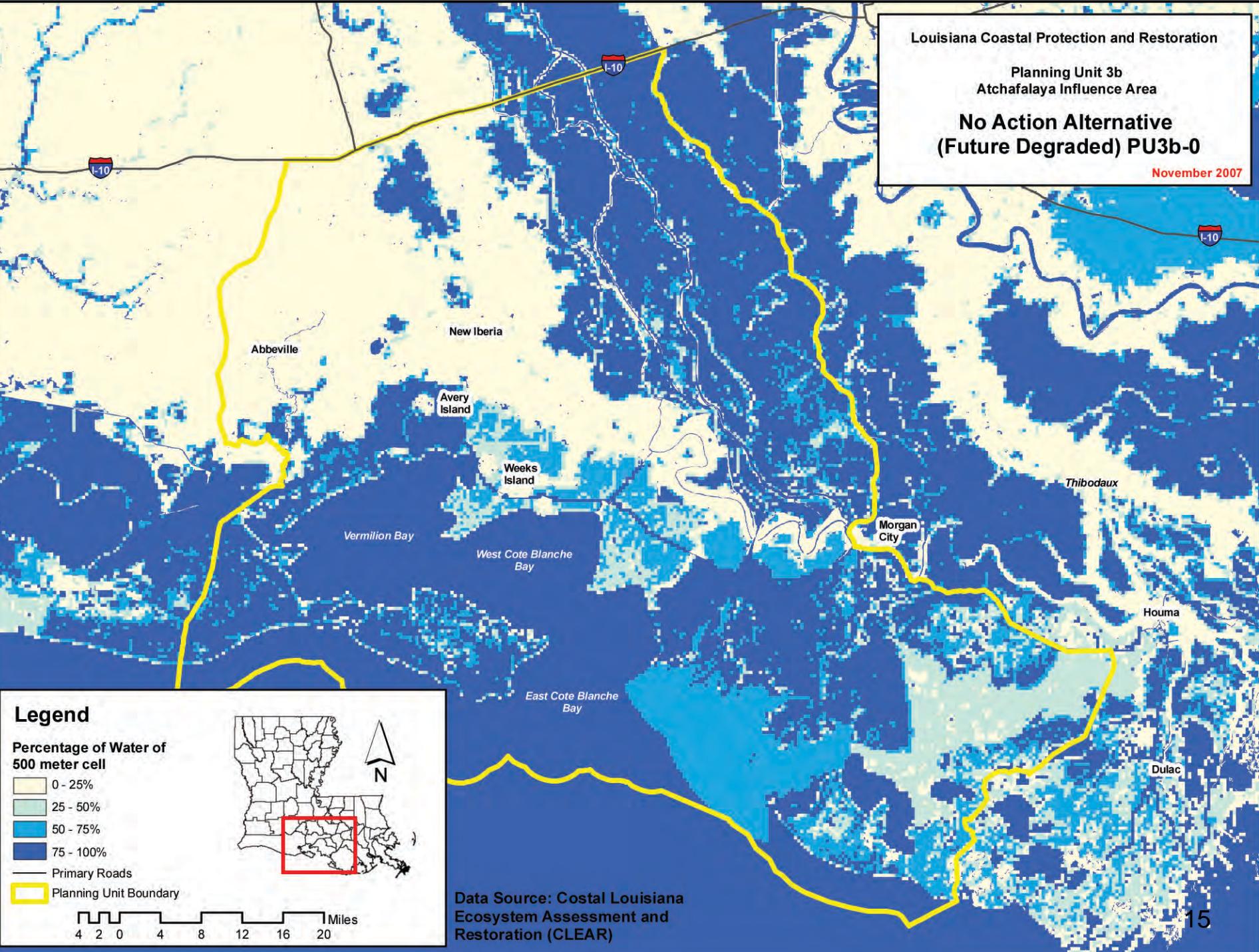
Other Results			Wetlands Created/Protected		Scenario 1	Scenario 2	Scenario 3	Scenario 4
Construction Time (years)			After 50 yrs (% of baseline)		97	95	97	95
Direct Wetland Impacts (acres)			After 100 yrs (% of baseline)		94	89	94	89
Indirect Impacts (unitless)			Present Value of Life Cycle Costs (\$ Millions)					
Spatial Integrity (unitless)			Coastal Component		0	0	0	0
Non-Federal Share of Present Value of Life Cycle Costs	Scenario	(\$ Millions)	Nonstructural Component		0	0	0	0
	1 / 2	0	Structural Component		0	0	0	0
	3 / 4	0	Total Project		0	0	0	0

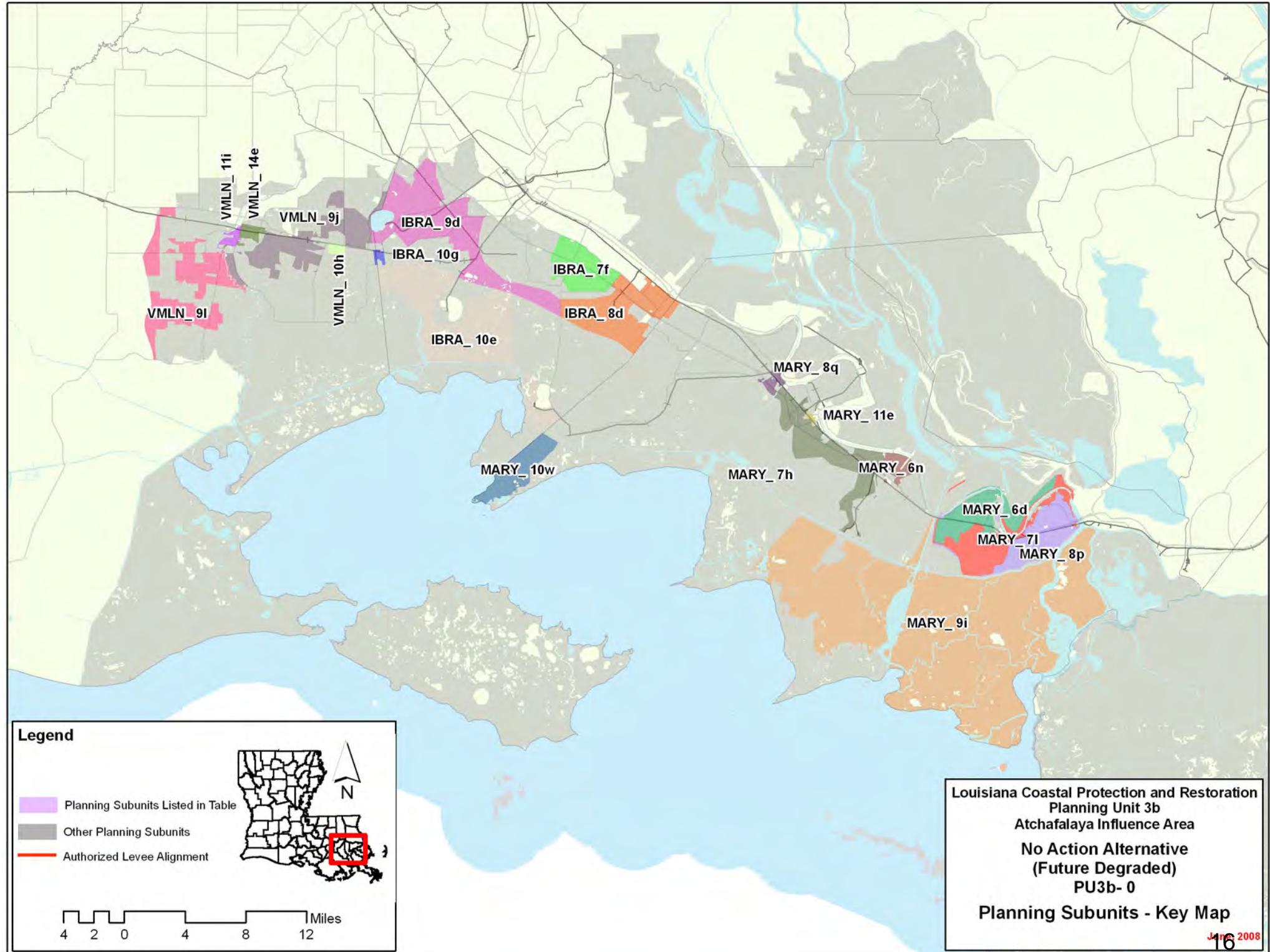
2075 Residual Risk / Damages - Low Uncertainty (\$ Millions)								Planning Unit 3b No Action Plan	
Frequency	Scenario 1		Scenario 2		Scenario 3		Scenario 4		
	No Action	With Proj							
10-year	1,024	N/A	1,523	N/A	1,013	N/A	1,543	N/A	
100-year	4,254	N/A	5,717	N/A	4,148	N/A	5,447	N/A	
400-year	8,571	N/A	9,628	N/A	7,772	N/A	8,782	N/A	
1,000-year	11,203	N/A	11,827	N/A	10,886	N/A	11,680	N/A	
2,000-year	12,281	N/A	12,591	N/A	12,370	N/A	12,769	N/A	

Note: Present Value costs and Annual Equivalent numbers are calculated for the period from 2010 to 2075 at common base year 2025 using a 4.7%/8% Federal discount rate. All dollar metrics are based on 2007 price levels.

**No Action Alternative
(Future Degraded) PU3b-0**

November 2007





Alternative: PU3b-0
Water Surface Elevations (feet - NAVD88 2004.65)

Planning Sub Unit	2010 (Base) Conditions						2060 (Future) Conditions					
	100-yr Event		400-year Event		1,000-yr Event		100-yr Event		400-year Event		1,000-yr Event	
	Without Project	With Project	Without Project	With Project	Without Project	With Project	Without Project	With Project	Without Project	With Project	Without Project	With Project
IBRA_10e	11.7		15.2		17.0		14.9		18.4		20.2	
IBRA_10g	11.5		15.4		17.8		14.7		18.6		21.0	
IBRA_7f	8.1		11.3		14.5		11.3		14.5		17.7	
IBRA_8d	10.1		15.2		19.1		13.3		18.4		22.3	
IBRA_9d	9.0		13.8		17.1		12.2		17.0		20.3	
MARY_10w	11.7		16.0		17.9		13.9		17.6		20.0	
MARY_11e	7.8		11.3		14.1		11.0		14.5		17.3	
MARY_6d	7.8		9.6		12.0		11.0		12.8		15.2	
MARY_6n	7.9		13.9		14.8		11.1		17.1		18.0	
MARY_7h	7.8		10.9		13.2		11.0		14.1		16.4	
MARY_7l	7.8		10.6		13.1		11.0		13.8		16.3	
MARY_8p	8.6		12.4		14.8		11.8		15.6		18.0	
MARY_8q	8.2		13.5		17.2		11.4		16.7		20.4	
MARY_9i	9.9		13.4		15.4		13.1		16.6		18.6	
VMLN_10h	11.4		15.6		18.3		14.6		18.8		21.5	
VMLN_11i	7.8		11.3		14.8		11.0		14.5		18.0	
VMLN_14e	7.8		9.4		14.3		11.0		12.6		17.5	
VMLN_9j	7.8		13.1		16.3		11.0		16.3		19.5	
VMLN_9l	10.6		13.7		15.5		13.8		16.9		18.7	
Evaluation Parameters	Confidence Level:			90%	3.2 feet	Levee Design:			No Friction Waves			
	Future Relative Sea Level Rise:					Levee Overtopping:			No Friction Waves			

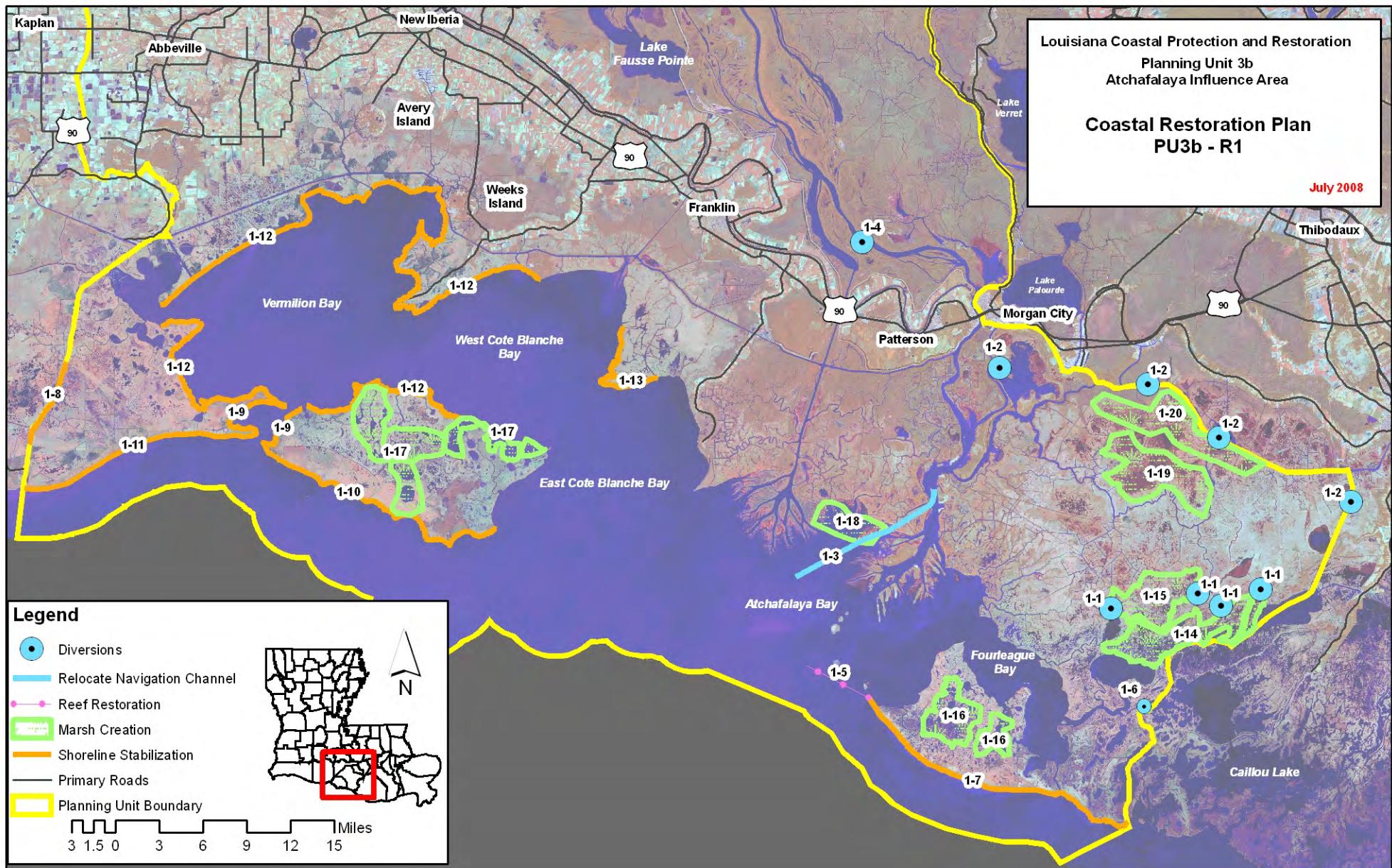
Planning Unit:	3b	Alt. No.:	PU3b-R1	Category:	Coastal Restoration Only
Alternative Description:	Sustain coastal landscape through restoration including shoreline protection, marsh creation, etc.				
Coastal Component:	R1	Nonstructural Component:		None	
Structural Component:	No new levees or increases in risk reduction level for existing levees.				

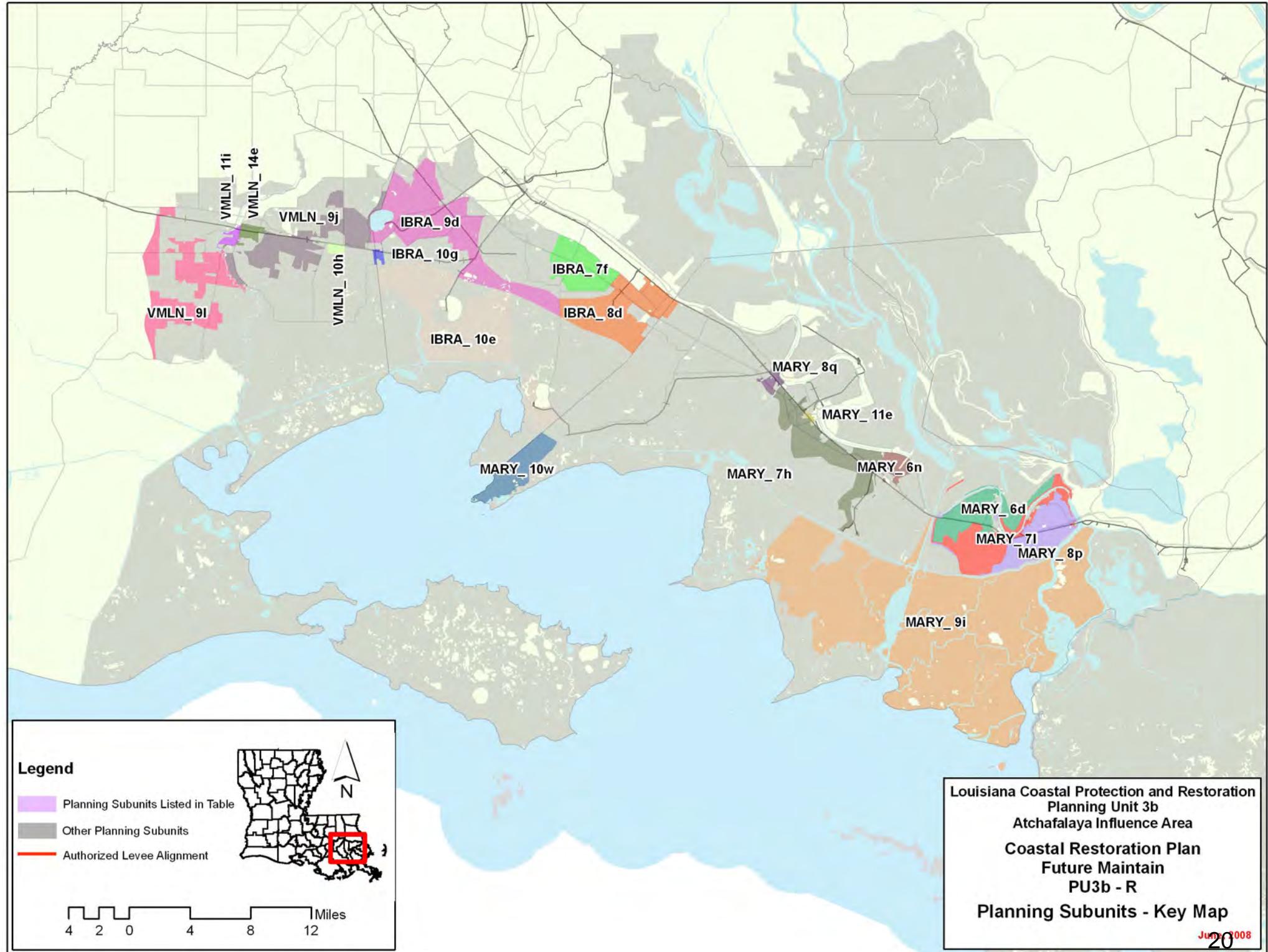
Scenario	Future Conditions (Relative Sea Level Rise (RSLR) and Redevelopment Assumptions)	Uncertainty	Results by Scenario with Uncertainty Bands								
			Life Cycle Cost	Population Impacted	Residual Damages	Gross Regional Output Impacted	Employment Impacted	People's Earned Income Impacted	Archeo. Sites Protected	Historic Properties Protected	Historic Districts Protected
			Ann. Equiv. \$ Millions	Ann. Equiv. #	Ann. Equiv. \$ Millions	Ann. Equiv. \$ Millions	Ann. Equiv. #	Ann. Equiv. \$ Millions	# Sites	# Properties	# Districts
1	Low RSLR High Employment Dispersed Population	High	243	4,326	203	343	1,177	78	154	2	2
		Mid		6,162	327	502	1,847	118	130	2	2
		Low		7,655	469	613	2,247	141	106	2	0
2	High RSLR High Employment Dispersed Population	High	245	4,854	242	413	1,347	94	154	4	2
		Mid		6,761	379	571	2,017	133	130	2	1
		Low		8,344	529	665	2,358	150	106	2	0
3	Low RSLR Business-as-Usual Compact Population	High	243	4,051	201	361	1,179	81	154	2	2
		Mid		5,862	323	524	1,823	119	130	2	2
		Low		7,316	460	645	2,207	142	106	2	0
4	High RSLR Business-as-Usual Compact Population	High	245	4,574	239	431	1,332	94	154	4	2
		Mid		6,440	373	605	1,997	135	130	2	1
		Low		7,998	516	706	2,339	153	106	2	0

Other Results			Wetlands Created/Protected		Scenario 1	Scenario 2	Scenario 3	Scenario 4
Construction Time (years)			After 50 yrs (% of baseline)		105	104	105	104
Direct Wetland Impacts (acres)			After 100 yrs (% of baseline)		105	100	105	100
Indirect Impacts (unitless)			Present Value of Life Cycle Costs (\$ Millions)					
Spatial Integrity (unitless)			Coastal Component		4,756	4,796	4,756	4,796
Non-Federal Share of Present Value of Life Cycle Costs	Scenario	(\$ Millions)	Nonstructural Component		0	0	0	0
	1 / 2	1,664	Structural Component		0	0	0	0
	3 / 4	1,664	Total Project		4,756	4,796	4,756	4,796

2075 Residual Risk / Damages - Low Uncertainty (\$ Millions)								Planning Unit 3b Coastal Plan Coastal Restoration Alt	
Frequency	Scenario 1		Scenario 2		Scenario 3		Scenario 4		
	No Action	With Proj							
10-year	1,024	1,022	1,523	1,522	1,013	1,012	1,543	1,545	
100-year	4,254	4,253	5,717	5,721	4,148	4,147	5,447	5,452	
400-year	8,571	8,576	9,628	9,629	7,772	7,771	8,782	8,779	
1,000-year	11,203	11,197	11,827	11,823	10,886	10,877	11,680	11,673	
2,000-year	12,281	12,280	12,591	12,590	12,370	12,369	12,769	12,766	

Note: Present Value costs and Annual Equivalent numbers are calculated for the period from 2010 to 2075 at common base year 2025 using a 4.7%/8% Federal discount rate. All dollar metrics are based on 2007 price levels.





Alternative: PU3b-R1
Water Surface Elevations (feet - NAVD88 2004.65)

Planning Sub Unit	2010 (Base) Conditions*						2060 (Future) Conditions					
	100-yr Event		400-year Event		1,000-yr Event		100-yr Event		400-year Event		1,000-yr Event	
	Without Project	With Project	Without Project	With Project	Without Project	With Project	Without Project	With Project	Without Project	With Project	Without Project	With Project
IBRA_10e	11.7	11.7	15.2	15.2	17.0	17.0	14.9	14.9	18.4	18.4	20.2	20.2
IBRA_10g	11.5	11.5	15.4	15.4	17.8	17.8	14.7	14.7	18.6	18.6	21.0	21.0
IBRA_7f	8.1	8.1	11.3	11.3	14.5	14.5	11.3	11.3	14.5	14.5	17.7	17.7
IBRA_8d	10.1	10.1	15.2	15.2	19.1	19.1	13.3	13.3	18.4	18.4	22.3	22.3
IBRA_9d	9.0	9.0	13.8	13.8	17.1	17.1	12.2	12.2	17.0	17.0	20.3	20.3
MARY_10w	11.7	11.7	16.0	16.0	17.9	17.9	13.9	14.9	17.6	19.2	20.0	21.1
MARY_11e	7.8	7.8	11.3	11.3	14.1	14.1	11.0	11.0	14.5	14.5	17.3	17.3
MARY_6d	7.8	7.8	9.6	9.6	12.0	12.0	11.0	11.0	12.8	12.8	15.2	15.2
MARY_6n	7.9	7.9	13.9	13.9	14.8	14.8	11.1	11.1	17.1	17.1	18.0	18.0
MARY_7h	7.8	7.8	10.9	10.9	13.2	13.2	11.0	11.0	14.1	14.1	16.4	16.4
MARY_7l	7.8	7.8	10.6	10.6	13.1	13.1	11.0	11.0	13.8	13.8	16.3	16.3
MARY_8p	8.6	8.6	12.4	12.4	14.8	14.8	11.8	11.8	15.6	15.6	18.0	18.0
MARY_8q	8.2	8.2	13.5	13.5	17.2	17.2	11.4	11.4	16.7	16.7	20.4	20.4
MARY_9i	9.9	9.9	13.4	13.4	15.4	15.4	13.1	13.1	16.6	16.6	18.6	18.6
VMLN_10h	11.4	11.4	15.6	15.6	18.3	18.3	14.6	14.6	18.8	18.8	21.5	21.5
VMLN_11i	7.8	7.8	11.3	11.3	14.8	14.8	11.0	11.0	14.5	14.5	18.0	18.0
VMLN_14e	7.8	7.8	9.4	9.4	14.3	14.3	11.0	11.0	12.6	12.6	17.5	17.5
VMLN_9j	7.8	7.8	13.1	13.1	16.3	16.3	11.0	11.0	16.3	16.3	19.5	19.5
VMLN_9l	10.6	10.6	13.7	13.7	15.5	15.5	13.8	13.8	16.9	16.9	18.7	18.7
Evaluation Parameters	Confidence Level:			90%	3.2 feet	Levee Design:			No Friction Waves			
	Future Relative Sea Level Rise:					Levee Overtopping:			No Friction Waves			

* With and without project base conditions (2010) are the same for coastal restoration only plans.

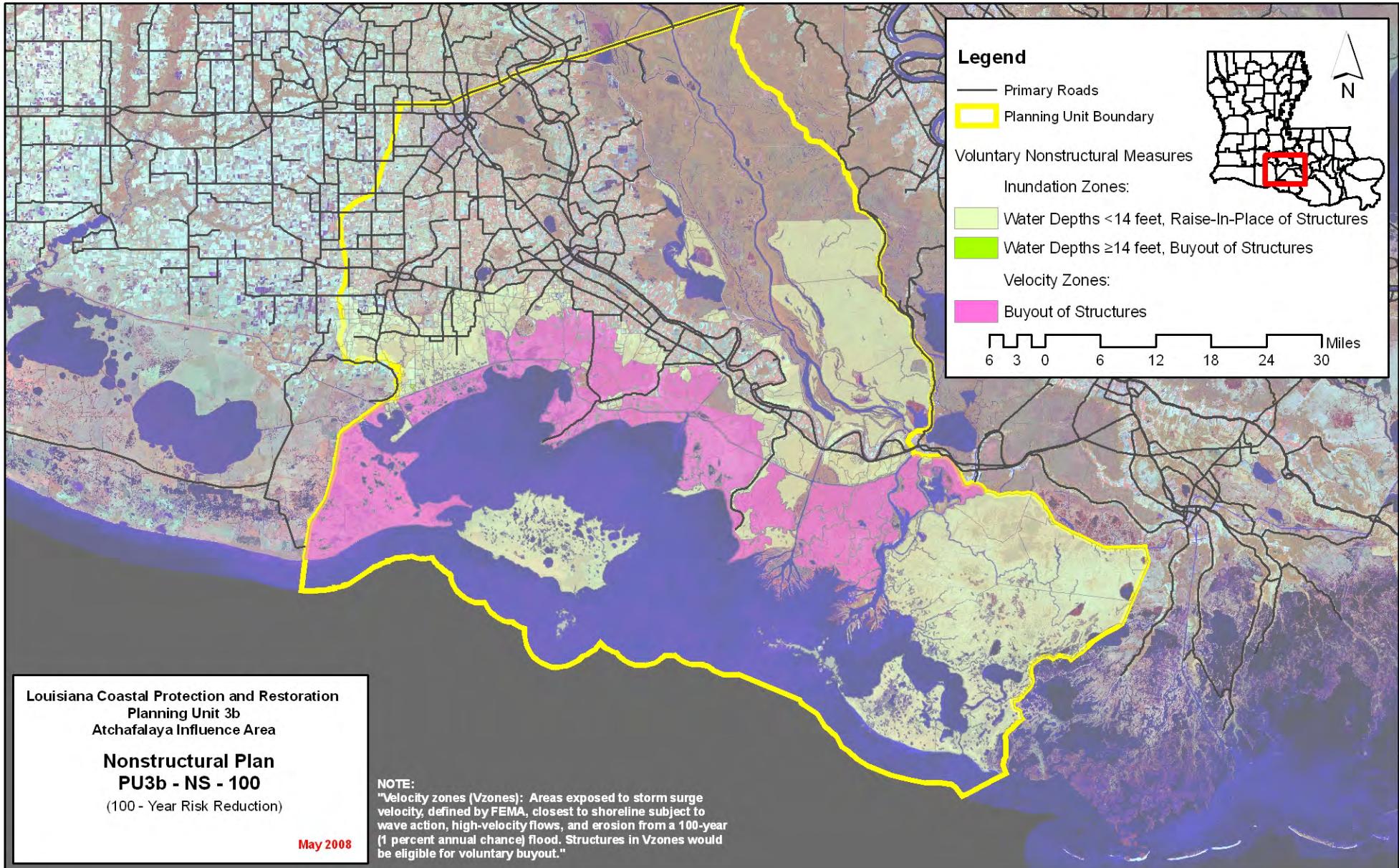
Planning Unit:	3b	Alt. No.:	PU3b-NS-100	Category:	Coastal Restoration + Nonstructural Measures
Alternative Description:	Sustain coastal landscape through restoration. Implement comprehensive 100-year nonstructural measures.				
Coastal Component:	R1	Nonstructural Component:		100-yr stand alone measures	
Structural Component:	No new levees or increases in risk reduction level for existing levees.				

Scenario	Future Conditions (Relative Sea Level Rise (RSLR) and Redevelopment Assumptions)	Uncertainty	Results by Scenario with Uncertainty Bands								
			Life Cycle Cost	Population Impacted	Residual Damages	Gross Regional Output Impacted	Employment Impacted	People's Earned Income Impacted	Archeo. Sites Protected	Historic Properties Protected	Historic Districts Protected
			Ann. Equiv. \$ Millions	Ann. Equiv. #	Ann. Equiv. \$ Millions	Ann. Equiv. \$ Millions	Ann. Equiv. #	Ann. Equiv. \$ Millions	# Sites	# Properties	# Districts
1	Low RSLR High Employment Dispersed Population	High	377	3,848	81	82	383	19	154	2	2
		Mid		5,662	146	205	855	48	130	2	2
		Low		7,118	245	288	1,142	65	106	2	0
2	High RSLR High Employment Dispersed Population	High	379	4,117	90	72	509	31	154	4	2
		Mid		5,970	173	147	971	60	130	2	1
		Low		7,473	283	195	1,230	74	106	2	0
3	Low RSLR Business-as-Usual Compact Population	High	380	3,603	80	80	358	17	154	2	2
		Mid		5,396	143	208	812	47	130	2	2
		Low		6,818	237	296	1,082	63	106	2	0
4	High RSLR Business-as-Usual Compact Population	High	382	3,870	89	137	478	29	154	4	2
		Mid		5,693	169	263	933	59	130	2	1
		Low		7,169	272	339	1,188	73	106	2	0

Other Results			Wetlands Created/Protected		Scenario 1	Scenario 2	Scenario 3	Scenario 4
Construction Time (years)			After 50 yrs (% of baseline)		105	104	105	104
Direct Wetland Impacts (acres)			After 100 yrs (% of baseline)		105	100	105	100
Indirect Impacts (unitless)			Present Value of Life Cycle Costs (\$ Millions)					
Spatial Integrity (unitless)			Coastal Component		4,756	4,796	4,756	4,796
Non-Federal Share of Present Value of Life Cycle Costs	Scenario	(\$ Millions)	Nonstructural Component		2,628	2,628	2,698	2,698
	1 / 2	2,584	Structural Component		0	0	0	0
	3 / 4	2,609	Total Project		7,383	7,424	7,454	7,494

2075 Residual Risk / Damages - Low Uncertainty (\$ Millions)								Planning Unit 3b Nonstructural Plan 100-year Design	
Frequency	Scenario 1		Scenario 2		Scenario 3		Scenario 4		
	No Action	With Proj							
10-year	1,024	141	1,523	331	1,013	137	1,543	347	
100-year	4,254	2,344	5,717	4,542	4,148	2,237	5,447	4,259	
400-year	8,571	7,954	9,628	9,163	7,772	7,133	8,782	8,294	
1,000-year	11,203	10,805	11,827	11,505	10,886	10,465	11,680	11,338	
2,000-year	12,281	11,993	12,591	12,328	12,370	12,068	12,769	12,492	

Note: Present Value costs and Annual Equivalent numbers are calculated for the period from 2010 to 2075 at common base year 2025 using a 4.7%/8% Federal discount rate. All dollar metrics are based on 2007 price levels.



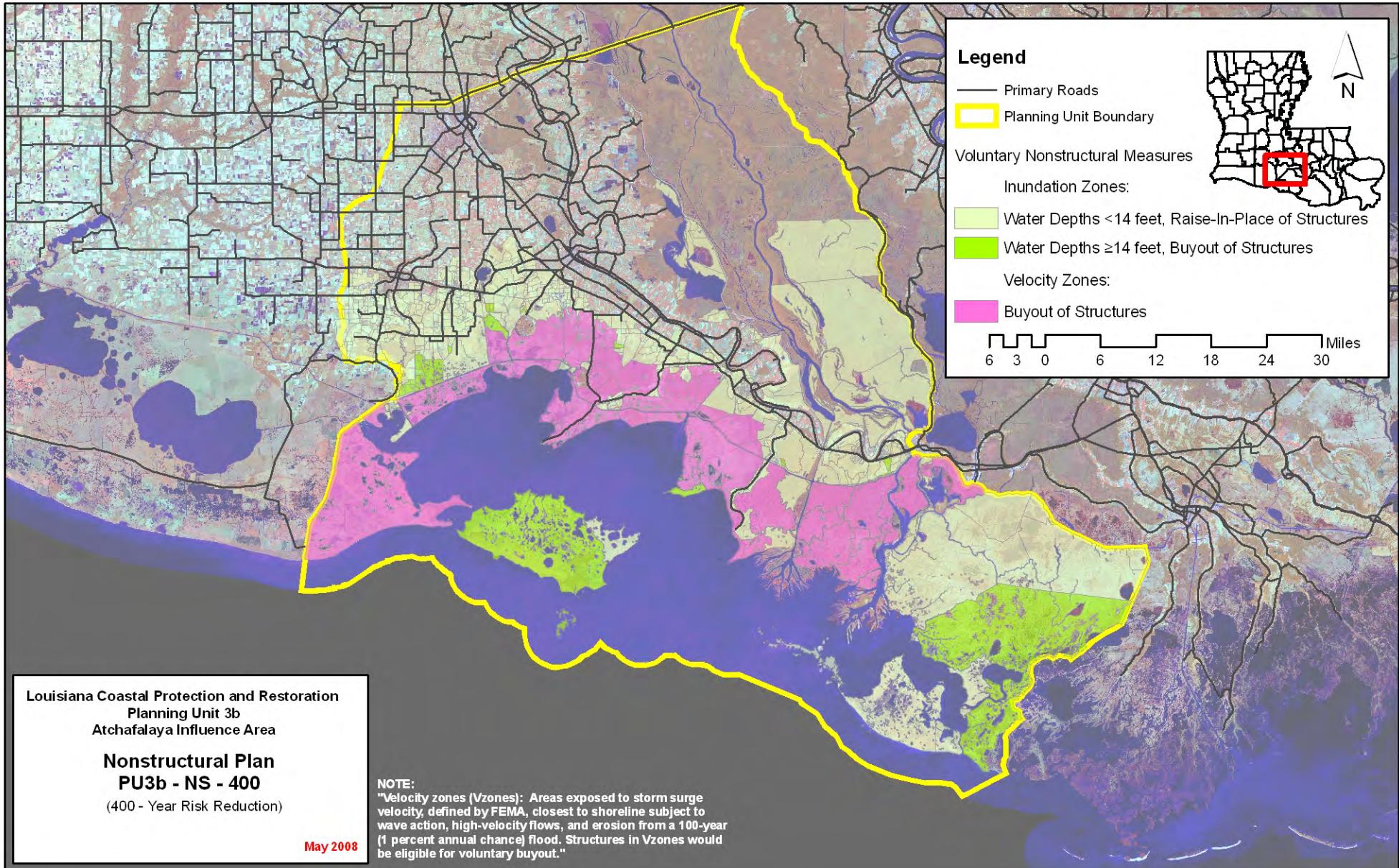
Planning Unit:	3b	Alt. No.:	PU3b-NS-400	Category:	Coastal Restoration + Nonstructural Measures
Alternative Description:	Sustain coastal landscape through restoration. Implement comprehensive 400-year nonstructural measures.				
Coastal Component:	R1	Nonstructural Component:		400-yr stand alone measures	
Structural Component:	No new levees or increases in risk reduction level for existing levees.				

Scenario	Future Conditions (Relative Sea Level Rise (RSLR) and Redevelopment Assumptions)	Uncertainty	Results by Scenario with Uncertainty Bands								
			Life Cycle Cost	Population Impacted	Residual Damages	Gross Regional Output Impacted	Employment Impacted	People's Earned Income Impacted	Archeo. Sites Protected	Historic Properties Protected	Historic Districts Protected
			Ann. Equiv. \$ Millions	Ann. Equiv. #	Ann. Equiv. \$ Millions	Ann. Equiv. \$ Millions	Ann. Equiv. #	Ann. Equiv. \$ Millions	# Sites	# Properties	# Districts
1	Low RSLR High Employment Dispersed Population	High	475	3,848	72	66	333	15	154	2	2
		Mid		5,661	119	119	598	29	130	2	2
		Low		7,117	183	162	781	37	106	2	0
2	High RSLR High Employment Dispersed Population	High	477	4,116	75	4	338	15	154	4	2
		Mid		5,969	125	20	615	30	130	2	1
		Low		7,472	193	66	845	44	106	2	0
3	Low RSLR Business-as-Usual Compact Population	High	481	3,602	72	63	311	14	154	2	2
		Mid		5,395	118	114	560	27	130	2	2
		Low		6,818	179	158	727	35	106	2	0
4	High RSLR Business-as-Usual Compact Population	High	484	3,869	74	65	316	14	154	4	2
		Mid		5,692	123	122	577	29	130	2	1
		Low		7,169	189	194	788	41	106	2	0

Other Results			Wetlands Created/Protected		Scenario 1	Scenario 2	Scenario 3	Scenario 4
Construction Time (years)			After 50 yrs (% of baseline)		105	104	105	104
Direct Wetland Impacts (acres)			After 100 yrs (% of baseline)		105	100	105	100
Indirect Impacts (unitless)			Present Value of Life Cycle Costs (\$ Millions)					
Spatial Integrity (unitless)			Coastal Component		4,756	4,796	4,756	4,796
Non-Federal Share of Present Value of Life Cycle Costs	Scenario	(\$ Millions)	Nonstructural Component		4,557	4,557	4,683	4,683
	1 / 2	3,259	Structural Component		0	0	0	0
	3 / 4	3,303	Total Project		9,313	9,353	9,438	9,479

2075 Residual Risk / Damages - Low Uncertainty (\$ Millions)								Planning Unit 3b Nonstructural Plan 400-year Design	
Frequency	Scenario 1		Scenario 2		Scenario 3		Scenario 4		
	No Action	With Proj							
10-year	1,024	116	1,523	167	1,013	112	1,543	162	
100-year	4,254	537	5,717	853	4,148	524	5,447	825	
400-year	8,571	3,643	9,628	6,793	7,772	3,185	8,782	6,048	
1,000-year	11,203	9,691	11,827	10,927	10,886	9,314	11,680	10,695	
2,000-year	12,281	11,524	12,591	12,009	12,370	11,536	12,769	12,144	

Note: Present Value costs and Annual Equivalent numbers are calculated for the period from 2010 to 2075 at common base year 2025 using a 4.7%/8% Federal discount rate. All dollar metrics are based on 2007 price levels.



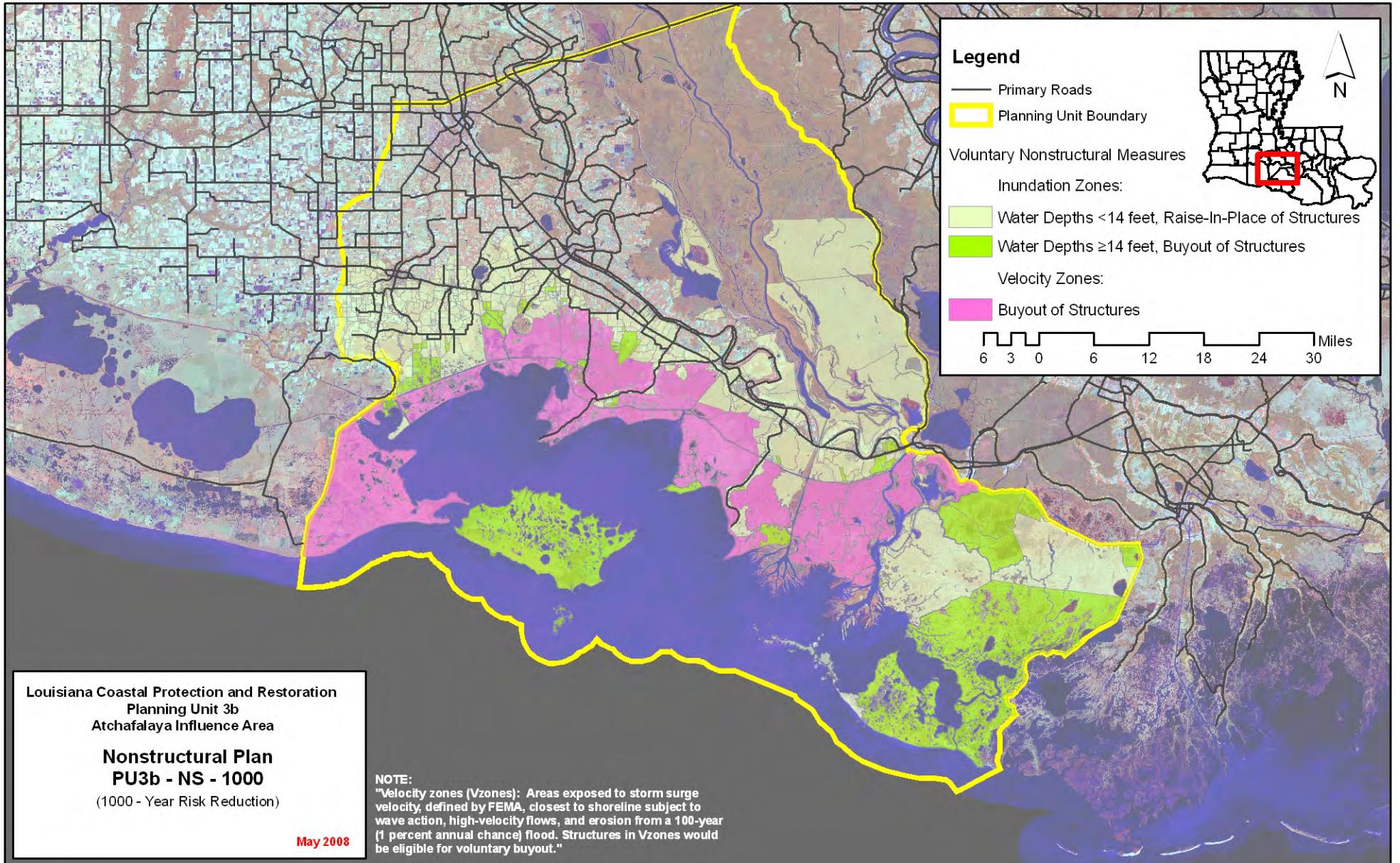
Planning Unit:	3b	Alt. No.:	PU3b-NS-1000	Category:	Coastal Restoration + Nonstructural Measures
Alternative Description:	Sustain coastal landscape through restoration. Implement comprehensive 1000-year nonstructural measures.				
Coastal Component:	R1	Nonstructural Component:		1000-yr stand alone measures	
Structural Component:	No new levees or increases in risk reduction level for existing levees.				

Scenario	Future Conditions (Relative Sea Level Rise (RSLR) and Redevelopment Assumptions)	Uncertainty	Results by Scenario with Uncertainty Bands								
			Life Cycle Cost	Population Impacted	Residual Damages	Gross Regional Output Impacted	Employment Impacted	People's Earned Income Impacted	Archeo. Sites Protected	Historic Properties Protected	Historic Districts Protected
			Ann. Equiv. \$ Millions	Ann. Equiv. #	Ann. Equiv. \$ Millions	Ann. Equiv. \$ Millions	Ann. Equiv. #	Ann. Equiv. \$ Millions	# Sites	# Properties	# Districts
1	Low RSLR High Employment Dispersed Population	High	533	3,755	70	65	329	15	154	2	2
		Mid		5,562	114	107	568	27	130	2	2
		Low		7,016	166	138	705	32	106	2	0
2	High RSLR High Employment Dispersed Population	High	535	4,024	72	0	330	15	154	4	2
		Mid		5,870	117	4	575	27	130	2	1
		Low		7,370	171	15	723	34	106	2	0
3	Low RSLR Business-as-Usual Compact Population	High	567	3,519	70	62	308	14	154	2	2
		Mid		5,311	113	102	534	25	130	2	2
		Low		6,732	164	133	662	30	106	2	0
4	High RSLR Business-as-Usual Compact Population	High	569	3,786	71	62	309	14	154	4	2
		Mid		5,609	116	105	540	26	130	2	1
		Low		7,083	168	141	680	32	106	2	0

Other Results			Wetlands Created/Protected		Scenario 1	Scenario 2	Scenario 3	Scenario 4
Construction Time (years)			After 50 yrs (% of baseline)		105	104	105	104
Direct Wetland Impacts (acres)			After 100 yrs (% of baseline)		105	100	105	100
Indirect Impacts (unitless)			Present Value of Life Cycle Costs (\$ Millions)					
Spatial Integrity (unitless)			Coastal Component		4,756	4,796	4,756	4,796
Non-Federal Share of Present Value of Life Cycle Costs	Scenario		Nonstructural Component		5,701	5,701	6,353	6,353
	1 / 2	3,660	3,674	Structural Component		0	0	0
	3 / 4	3,888	3,902	Total Project		10,457	10,497	11,108

2075 Residual Risk / Damages - Low Uncertainty (\$ Millions)								Planning Unit 3b Nonstructural Plan 1000-year Design	
Frequency	Scenario 1		Scenario 2		Scenario 3		Scenario 4		
	No Action	With Proj							
10-year	1,024	103	1,523	139	1,013	100	1,543	135	
100-year	4,254	433	5,717	565	4,148	424	5,447	555	
400-year	8,571	817	9,628	1,370	7,772	801	8,782	1,309	
1,000-year	11,203	3,928	11,827	7,609	10,886	3,963	11,680	7,536	
2,000-year	12,281	9,274	12,591	10,830	12,370	9,374	12,769	10,929	

Note: Present Value costs and Annual Equivalent numbers are calculated for the period from 2010 to 2075 at common base year 2025 using a 4.7%/8% Federal discount rate. All dollar metrics are based on 2007 price levels.



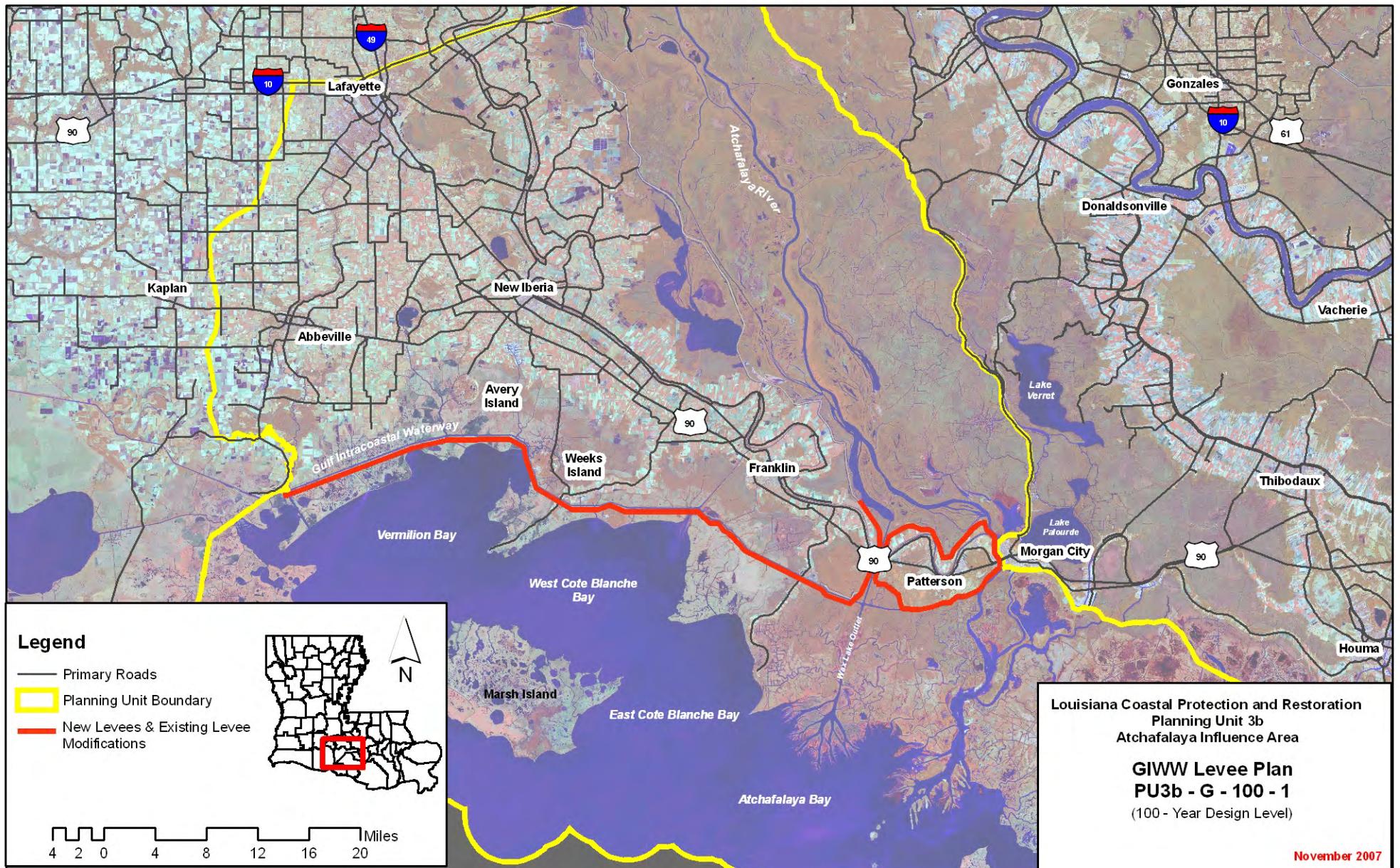
Planning Unit:	3b	Alt. No.:	PU3b-G-100-1	Category:	Coastal Restoration + Structural Measures
Alternative Description:	Sustain coastal landscape through restoration. Raise ring levee around Patterson/Berwick to 100-year design level and construct levee along the GIWW west to the boundary of Planning Unit 4 at the 100-year design level.				
Coastal Component:	R1	Nonstructural Component:		None	
Structural Component:	See alternative description above.				

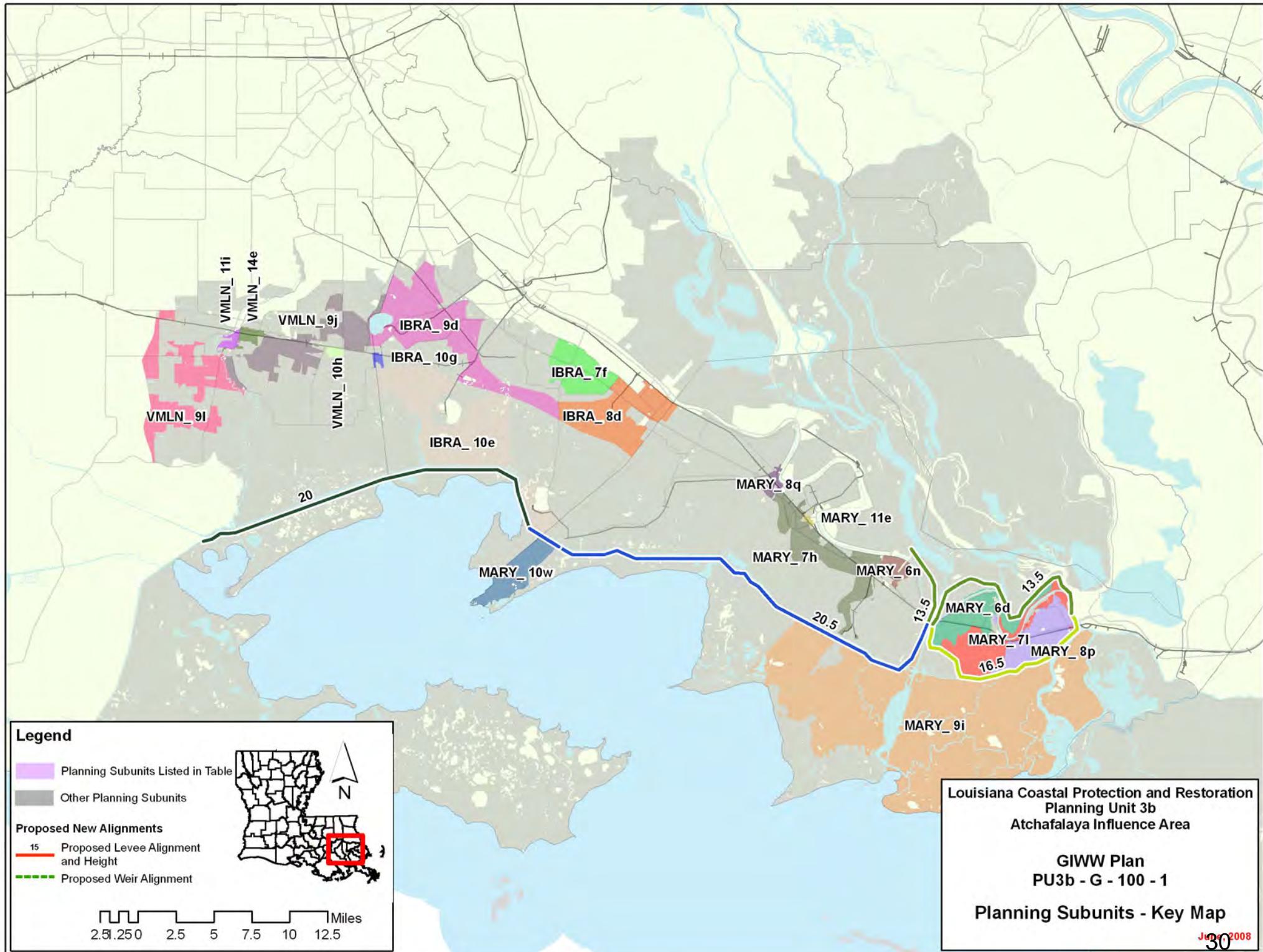
Scenario	Future Conditions (Relative Sea Level Rise (RSLR) and Redevelopment Assumptions)	Uncertainty	Results by Scenario with Uncertainty Bands								
			Life Cycle Cost	Population Impacted	Residual Damages	Gross Regional Output Impacted	Employment Impacted	People's Earned Income Impacted	Archeo. Sites Protected	Historic Properties Protected	Historic Districts Protected
			Ann. Equiv. \$ Millions	Ann. Equiv. #	Ann. Equiv. \$ Millions	Ann. Equiv. \$ Millions	Ann. Equiv. #	Ann. Equiv. \$ Millions	# Sites	# Properties	# Districts
1	Low RSLR High Employment Dispersed Population	High	1,020	1,660	94	121	514	27	312	20	5
		Mid		2,465	146	180	816	43	288	19	5
		Low		3,227	210	225	1,000	52	264	18	5
2	High RSLR High Employment Dispersed Population	High	1,023	1,733	100	54	536	29	312	20	5
		Mid		2,551	154	65	838	45	288	18	5
		Low		3,324	219	78	1,014	53	264	18	4
3	Low RSLR Business-as-Usual Compact Population	High	1,020	1,562	94	121	496	27	312	20	5
		Mid		2,357	145	179	782	42	288	19	5
		Low		3,101	208	226	957	50	264	18	5
4	High RSLR Business-as-Usual Compact Population	High	1,023	1,633	100	131	516	29	312	20	5
		Mid		2,439	153	191	806	44	288	18	5
		Low		3,198	216	233	973	52	264	18	4

Other Results			Wetlands Created/Protected		Scenario 1	Scenario 2	Scenario 3	Scenario 4
Construction Time (years)			After 50 yrs (% of baseline)		105	104	105	104
Direct Wetland Impacts (acres)			After 100 yrs (% of baseline)		105	100	105	100
Indirect Impacts (unitless)			Present Value of Life Cycle Costs (\$ Millions)					
Spatial Integrity (unitless)			Coastal Component		4,756	4,796	4,756	4,796
Non-Federal Share of Present Value of Life Cycle Costs	Scenario	(\$ Millions)	Nonstructural Component		0	0	0	0
	1 / 2	7,047	Structural Component		15,214	15,238	15,214	15,238
	3 / 4	7,047	Total Project		19,970	20,035	19,970	20,035

2075 Residual Risk / Damages - Low Uncertainty (\$ Millions)								Planning Unit 3b Structural Plan GIWW Alt 100-year Design	
Frequency	Scenario 1		Scenario 2		Scenario 3		Scenario 4		
	No Action	With Proj							
10-year	1,024	158	1,523	194	1,013	159	1,543	196	
100-year	4,254	318	5,717	359	4,148	318	5,447	357	
400-year	8,571	567	9,628	614	7,772	579	8,782	633	
1,000-year	11,203	2,867	11,827	2,883	10,886	2,950	11,680	2,969	
2,000-year	12,281	6,368	12,591	6,412	12,370	6,321	12,769	6,338	

Note: Present Value costs and Annual Equivalent numbers are calculated for the period from 2010 to 2075 at common base year 2025 using a 4.7%/8% Federal discount rate. All dollar metrics are based on 2007 price levels.





Alternative: PU3b-G-100-1
Water Surface Elevations (feet - NAVD88 2004.65)

Planning Sub Unit	2010 (Base) Conditions						2060 (Future) Conditions					
	100-yr Event		400-year Event		1,000-yr Event		100-yr Event		400-year Event		1,000-yr Event	
	Without Project	With Project	Without Project	With Project	Without Project	With Project	Without Project	With Project	Without Project	With Project	Without Project	With Project
IBRA_10e	11.6	2.4	15.5	3.9	18.0	8.2	14.8	2.4	18.7	3.9	21.2	8.2
IBRA_10g	11.5	2.4	15.4	3.9	17.8	8.2	14.7	2.4	18.6	3.9	21.0	8.2
IBRA_7f	8.1	2.4	11.3	3.9	14.5	8.2	11.3	2.4	14.5	3.9	17.7	8.2
IBRA_8d	10.1	2.4	15.2	3.9	19.1	8.2	13.3	2.4	18.4	3.9	22.3	8.2
IBRA_9d	9.0	2.4	13.8	3.9	17.1	8.2	12.2	2.4	17.0	3.9	20.3	8.2
MARY_10w	11.7	13.6	16.0	19.0	17.9	22.7	13.9	16.8	17.6	22.2	20.0	25.9
MARY_11e	7.8	1.3	11.3	3.5	14.1	9.1	11.0	1.3	14.5	3.5	17.3	9.1
MARY_6d	7.8	-0.4	9.6	3.5	12.0	10.8	11.0	-0.4	12.8	3.5	15.2	10.8
MARY_6n	7.9	1.3	13.9	3.5	14.8	9.1	11.1	1.3	17.1	3.5	18.0	9.1
MARY_7h	7.8	1.3	10.9	3.5	13.2	9.1	11.0	1.3	14.1	3.5	16.4	9.1
MARY_7l	7.8	-0.4	10.6	3.5	13.1	10.8	11.0	-0.4	13.8	3.5	16.3	10.8
MARY_8p	8.6	-0.4	12.4	3.5	14.8	10.8	11.8	-0.4	15.6	3.5	18.0	10.8
MARY_8q	8.2	1.3	13.5	3.5	17.2	9.1	11.4	1.3	16.7	3.5	20.4	9.1
MARY_9i	9.9	10.6	13.4	14.6	15.4	16.8	13.1	13.8	16.6	17.8	18.6	20.0
VMLN_10h	11.4	2.4	15.6	3.9	18.3	8.2	14.6	2.4	18.8	3.9	21.5	8.2
VMLN_11i	7.8	2.4	11.3	3.9	14.8	8.2	11.0	2.4	14.5	3.9	18.0	8.2
VMLN_14e	7.8	2.4	9.4	3.9	14.3	8.2	11.0	2.4	12.6	3.9	17.5	8.2
VMLN_9j	7.8	2.4	13.1	3.9	16.3	8.2	11.0	2.4	16.3	3.9	19.5	8.2
VMLN_9l	10.6	2.4	13.7	3.9	15.5	8.2	13.8	2.4	16.9	3.9	18.7	8.2
Evaluation Parameters	Confidence Level:			90%	3.2 feet	Levee Design:			No Friction Waves			
	Future Relative Sea Level Rise:					Levee Overtopping:			No Friction Waves			

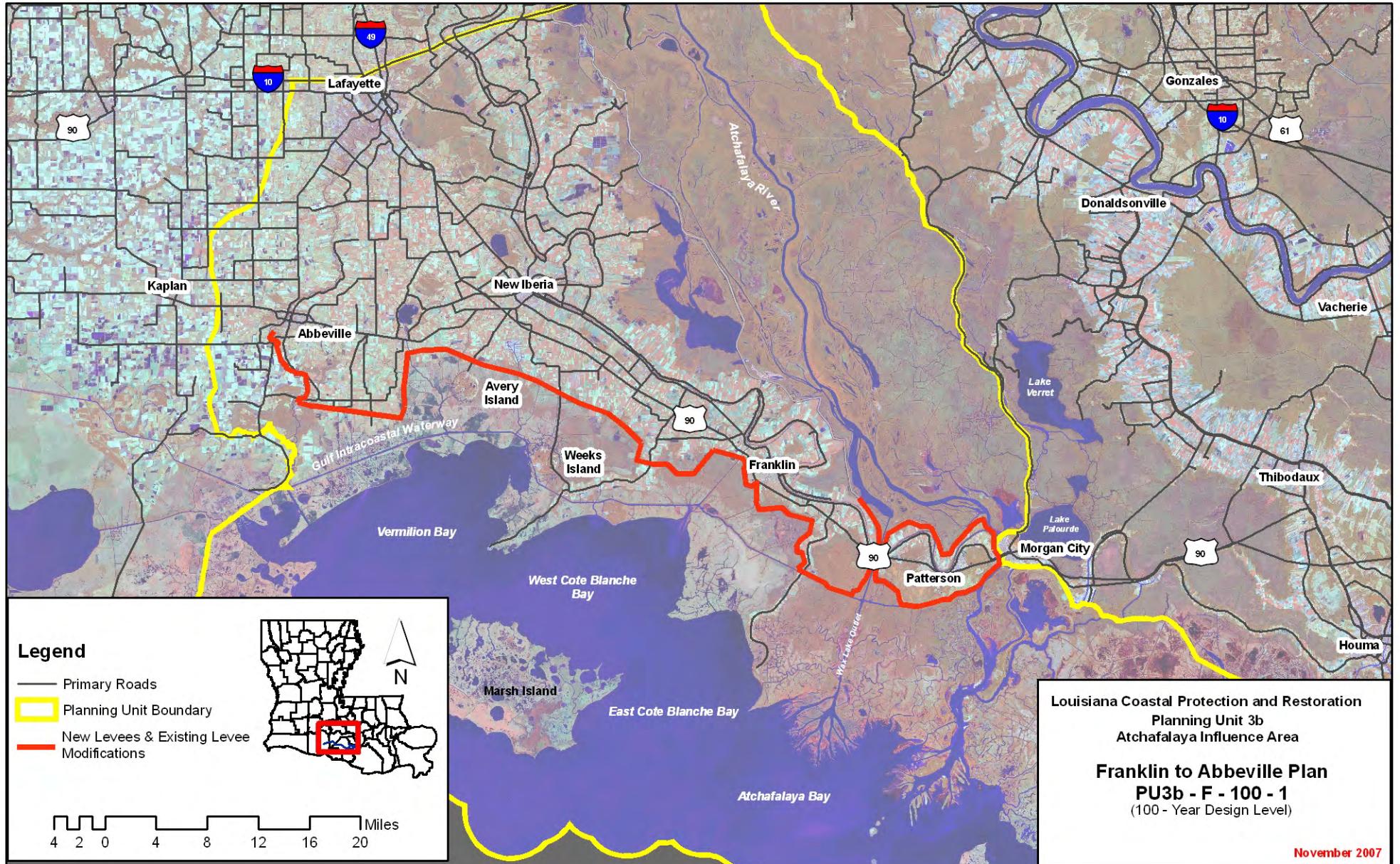
Planning Unit:	3b	Alt. No.:	PU3b-F-100-1	Category:	Coastal Restoration + Structural Measures	
Alternative Description:	Sustain coastal landscape through restoration. Raise ring levee around Patterson/Berwick to 100-year design level and construct levee along the edge of development north of the GIWW to high ground west of Abbeville at the 100-year design level.					
Coastal Component:	R1		Nonstructural Component:	None		
Structural Component:	See alternative description above.					

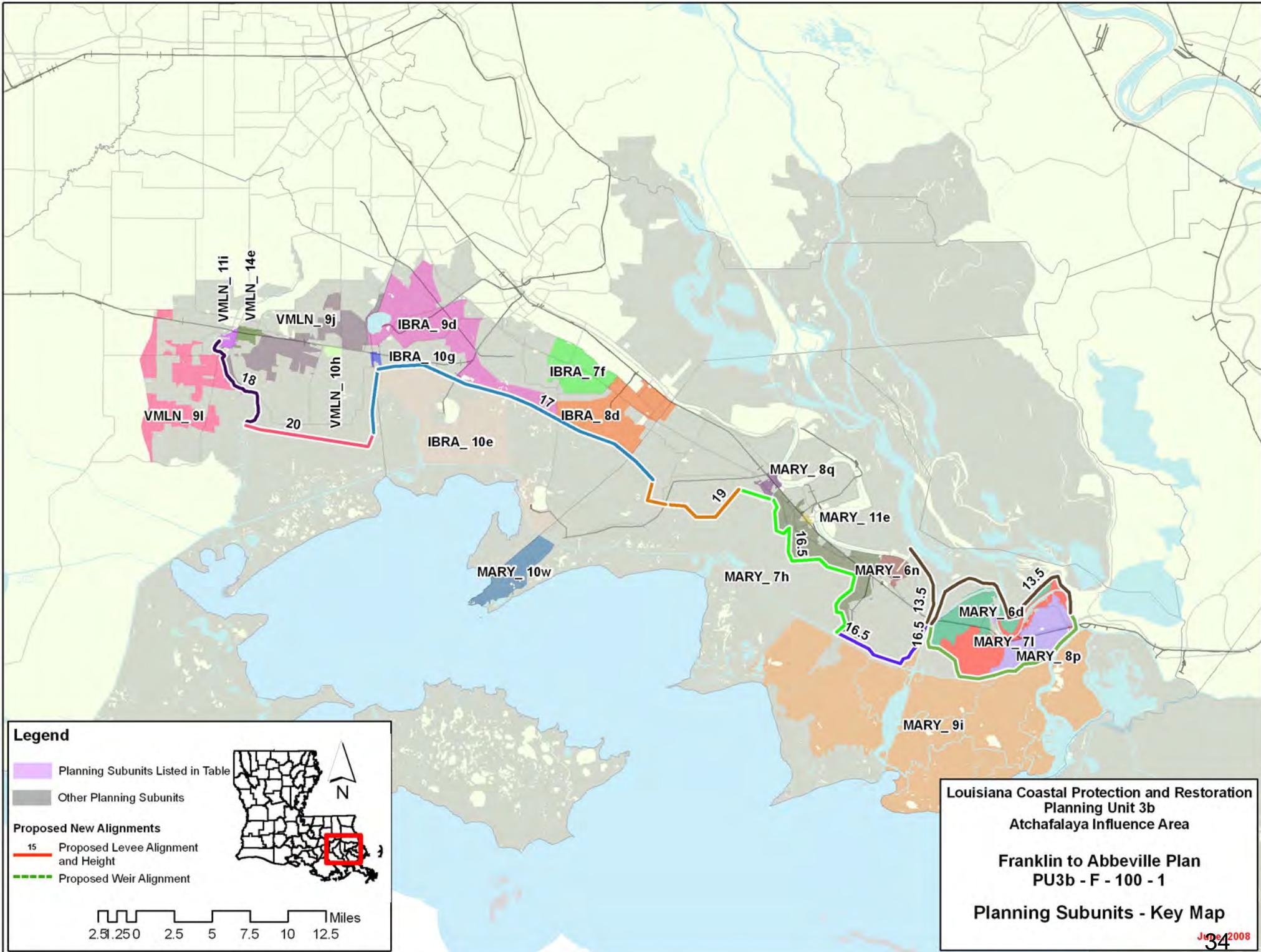
Scenario	Future Conditions (Relative Sea Level Rise (RSLR) and Redevelopment Assumptions)	Uncertainty	Results by Scenario with Uncertainty Bands								
			Life Cycle Cost	Population Impacted	Residual Damages	Gross Regional Output Impacted	Employment Impacted	People's Earned Income Impacted	Archeo. Sites Protected	Historic Properties Protected	Historic Districts Protected
			Ann. Equiv. \$ Millions	Ann. Equiv. #	Ann. Equiv. \$ Millions	Ann. Equiv. \$ Millions	Ann. Equiv. #	Ann. Equiv. \$ Millions	# Sites	# Properties	# Districts
1	Low RSLR High Employment Dispersed Population	High	954	1,958	107	126	546	29	202	16	3
		Mid		2,881	167	192	875	46	178	15	3
		Low		3,909	261	260	1,148	61	154	14	1
2	High RSLR High Employment Dispersed Population	High	958	2,059	115	60	569	31	202	16	3
		Mid		2,991	178	81	910	50	178	15	2
		Low		4,057	273	113	1,163	62	154	14	0
3	Low RSLR Business-as-Usual Compact Population	High	954	1,829	106	125	523	28	202	16	3
		Mid		2,729	165	191	835	45	178	15	3
		Low		3,734	254	255	1,067	57	154	14	1
4	High RSLR Business-as-Usual Compact Population	High	958	1,922	114	136	546	30	202	16	3
		Mid		2,836	175	203	859	47	178	15	2
		Low		3,869	265	264	1,088	59	154	14	0

Other Results			Wetlands Created/Protected		Scenario 1	Scenario 2	Scenario 3	Scenario 4
Construction Time (years)			After 50 yrs (% of baseline)		105	104	105	104
Direct Wetland Impacts (acres)			After 100 yrs (% of baseline)		105	100	105	100
Indirect Impacts (unitless)			Present Value of Life Cycle Costs (\$ Millions)					
Spatial Integrity (unitless)			Coastal Component		4,756	4,796	4,756	4,796
Non-Federal Share of Present Value of Life Cycle Costs	Scenario	(\$ Millions)	Nonstructural Component		0	0	0	0
	1 / 2	6,622	Structural Component		13,918	13,955	13,918	13,955
	3 / 4	6,622	Total Project		18,674	18,751	18,674	18,751

2075 Residual Risk / Damages - Low Uncertainty (\$ Millions)								Planning Unit 3b Structural Plan Franklin to Abbeville Alt 100-year Design	
Frequency	Scenario 1		Scenario 2		Scenario 3		Scenario 4		
	No Action	With Proj							
10-year	1,024	222	1,523	282	1,013	223	1,543	285	
100-year	4,254	713	5,717	879	4,148	636	5,447	750	
400-year	8,571	5,508	9,628	5,680	7,772	5,128	8,782	5,287	
1,000-year	11,203	10,913	11,827	11,013	10,886	10,668	11,680	10,828	
2,000-year	12,281	11,431	12,591	11,510	12,370	11,339	12,769	11,416	

Note: Present Value costs and Annual Equivalent numbers are calculated for the period from 2010 to 2075 at common base year 2025 using a 4.7%/8% Federal discount rate. All dollar metrics are based on 2007 price levels.





Alternative: PU3b-F-100-1
Water Surface Elevations (feet - NAVD88 2004.65)

Planning Sub Unit	2010 (Base) Conditions						2060 (Future) Conditions					
	100-yr Event		400-year Event		1,000-yr Event		100-yr Event		400-year Event		1,000-yr Event	
	Without Project	With Project	Without Project	With Project	Without Project	With Project	Without Project	With Project	Without Project	With Project	Without Project	With Project
IBRA_10e	11.6	12.5	15.5	17.1	18.0	20.0	14.8	15.7	18.7	20.3	21.2	23.2
IBRA_10g	11.5	4.6	15.4	11.5	17.8	17.0	14.7	4.6	18.6	11.5	21.0	17.0
IBRA_7f	8.1	4.0	11.3	15.0	14.5	17.0	11.3	4.0	14.5	15.0	17.7	17.0
IBRA_8d	10.1	4.0	15.2	15.0	19.1	17.0	13.3	4.0	18.4	15.0	22.3	17.0
IBRA_9d	9.0	4.0	13.8	15.0	17.1	17.0	12.2	4.0	17.0	15.0	20.3	17.0
MARY_10w	11.7	11.9	16.0	16.2	17.9	19.2	13.9	15.1	17.6	19.4	20.0	22.4
MARY_11e	7.8	0.5	11.3	9.8	14.1	16.5	11.0	0.5	14.5	9.8	17.3	16.5
MARY_6d	7.8	-0.4	9.6	3.5	12.0	10.8	11.0	-0.4	12.8	3.5	15.2	10.8
MARY_6n	7.9	0.5	13.9	9.8	14.8	16.5	11.1	0.5	17.1	9.8	18.0	16.5
MARY_7h	7.8	0.5	10.9	9.8	13.2	16.5	11.0	0.5	14.1	9.8	16.4	16.5
MARY_7l	7.8	-0.4	10.6	3.5	13.1	10.8	11.0	-0.4	13.8	3.5	16.3	10.8
MARY_8p	8.6	-0.4	12.4	3.5	14.8	10.8	11.8	-0.4	15.6	3.5	18.0	10.8
MARY_8q	8.2	3.0	13.5	8.3	17.2	16.5	11.4	3.0	16.7	8.3	20.4	16.5
MARY_9i	9.9	10.5	13.4	14.2	15.4	16.4	13.1	13.7	16.6	17.4	18.6	19.6
VMLN_10h	11.4	4.6	15.6	11.5	18.3	17.0	14.6	4.6	18.8	11.5	21.5	17.0
VMLN_11i	7.8	4.6	11.3	11.5	14.8	17.0	11.0	4.6	14.5	11.5	18.0	17.0
VMLN_14e	7.8	4.6	9.4	11.5	14.3	17.0	11.0	4.6	12.6	11.5	17.5	17.0
VMLN_9j	7.8	4.6	13.1	11.5	16.3	17.0	11.0	4.6	16.3	11.5	19.5	17.0
VMLN_9l	10.6	10.9	13.7	12.5	15.5	14.0	13.8	14.1	16.9	15.7	18.7	17.2
Evaluation Parameters	Confidence Level:			90%	3.2 feet	Levee Design:			No Friction Waves			
	Future Relative Sea Level Rise:					Levee Overtopping:			No Friction Waves			

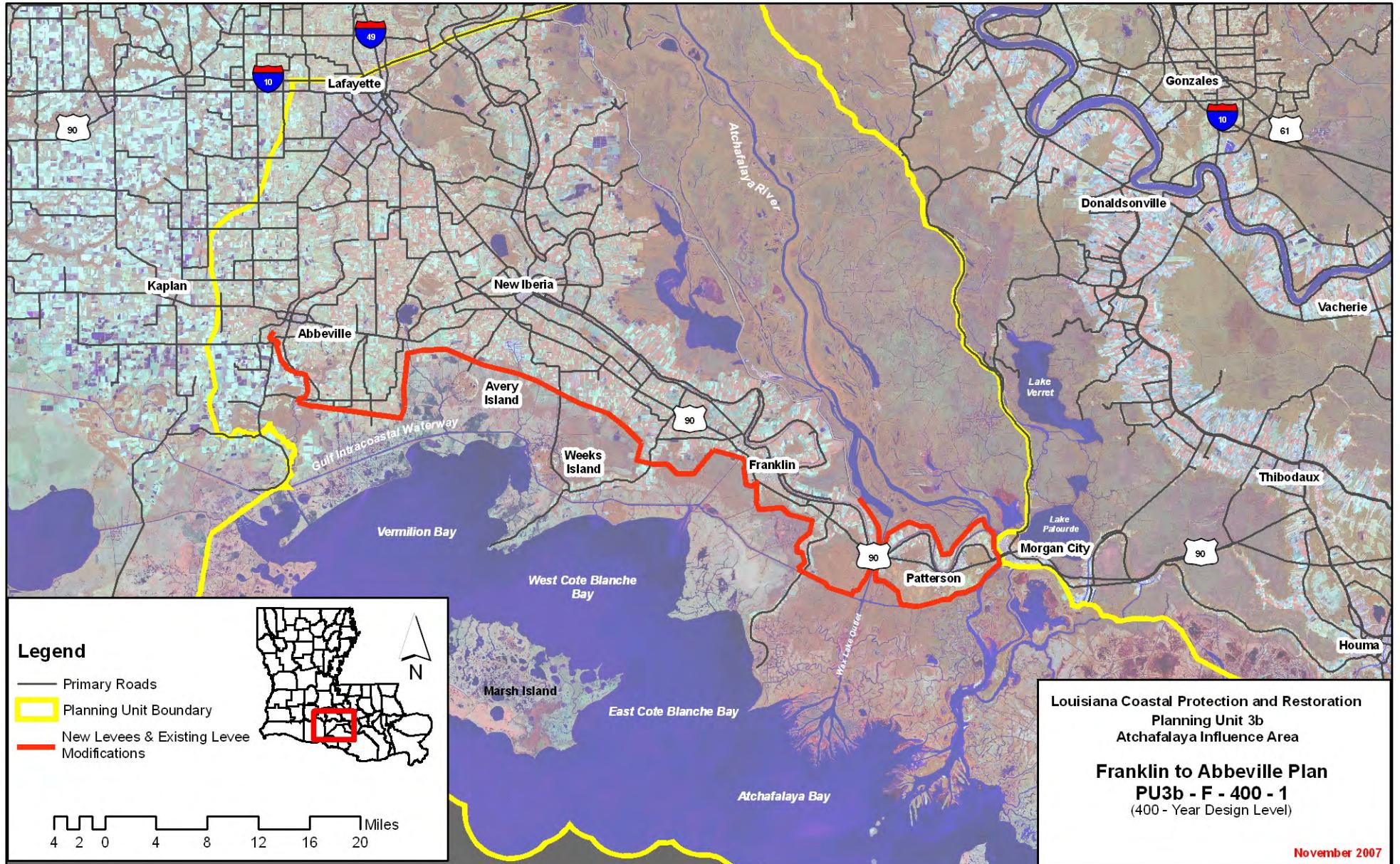
Planning Unit:	3b	Alt. No.:	PU3b-F-400-1	Category:	Coastal Restoration + Structural Measures
Alternative Description:	Sustain coastal landscape through restoration. Raise ring levee around Patterson/Berwick to 400-year design level and construct levee along the edge of development north of the GIWW to high ground west of Abbeville at the 400-year design level.				
Coastal Component:	R1	Nonstructural Component:		None	
Structural Component:	See alternative description above.				

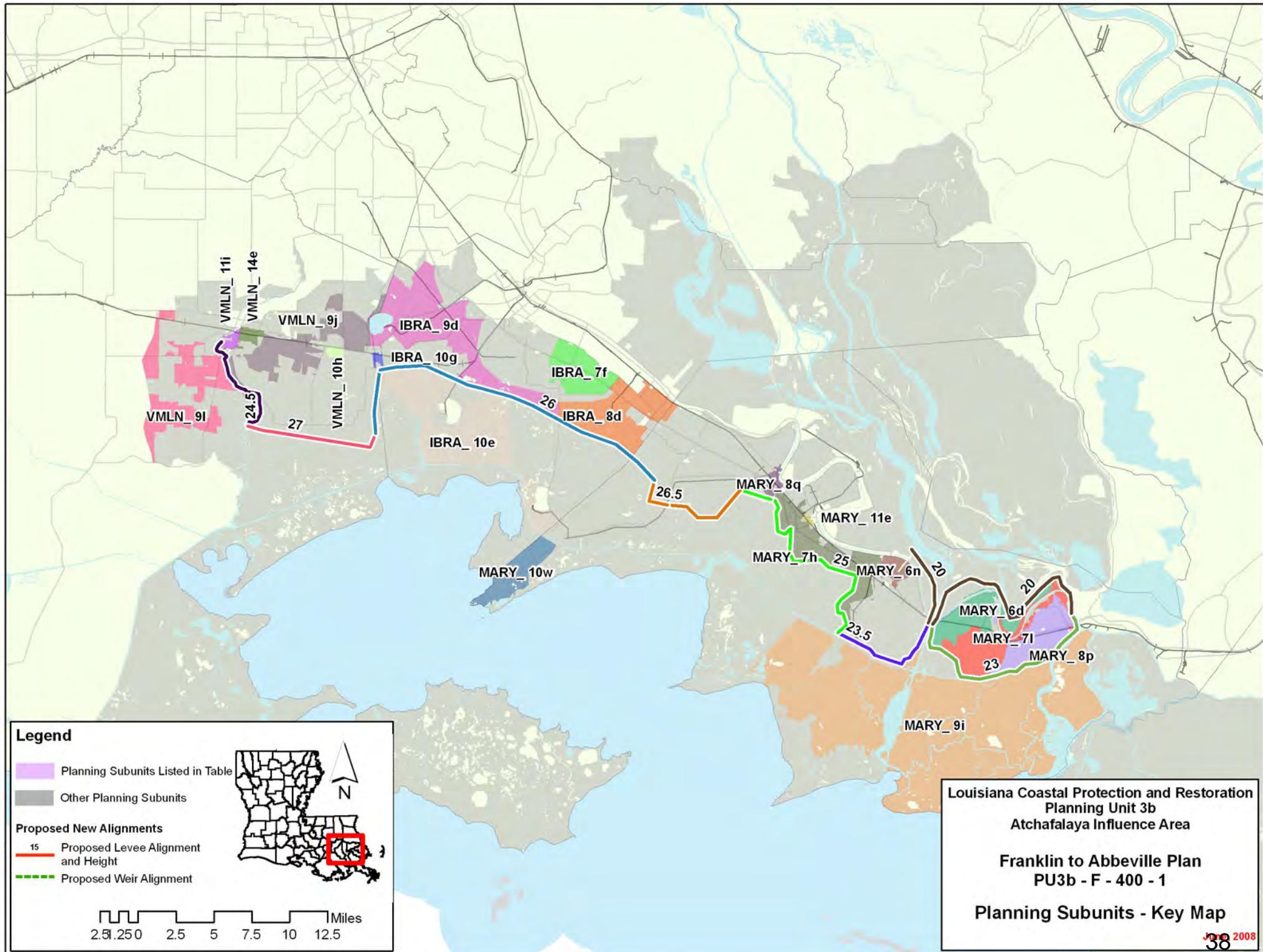
Scenario	Future Conditions (Relative Sea Level Rise (RSLR) and Redevelopment Assumptions)	Uncertainty	Results by Scenario with Uncertainty Bands								
			Life Cycle Cost	Population Impacted	Residual Damages	Gross Regional Output Impacted	Employment Impacted	People's Earned Income Impacted	Archeo. Sites Protected	Historic Properties Protected	Historic Districts Protected
			Ann. Equiv. \$ Millions	Ann. Equiv. #	Ann. Equiv. \$ Millions	Ann. Equiv. \$ Millions	Ann. Equiv. #	Ann. Equiv. \$ Millions	# Sites	# Properties	# Districts
1	Low RSLR High Employment Dispersed Population	High	1,440	2,146	114	140	598	32	202	19	5
		Mid		3,071	175	208	940	50	178	19	5
		Low		3,871	248	256	1,135	60	154	18	5
2	High RSLR High Employment Dispersed Population	High	1,452	2,264	123	67	628	35	202	19	5
		Mid		3,201	188	85	980	54	178	19	5
		Low		4,041	262	93	1,154	61	154	18	4
3	Low RSLR Business-as-Usual Compact Population	High	1,440	2,008	114	140	575	32	202	19	5
		Mid		2,914	173	206	899	49	178	19	5
		Low		3,692	242	253	1,074	57	154	18	5
4	High RSLR Business-as-Usual Compact Population	High	1,452	2,118	122	153	604	34	202	19	5
		Mid		3,040	185	222	930	52	178	19	5
		Low		3,849	255	264	1,099	59	154	18	4

Other Results			Wetlands Created/Protected		Scenario 1	Scenario 2	Scenario 3	Scenario 4
Construction Time (years)			After 50 yrs (% of baseline)		105	104	105	104
Direct Wetland Impacts (acres)			After 100 yrs (% of baseline)		105	100	105	100
Indirect Impacts (unitless)			Present Value of Life Cycle Costs (\$ Millions)					
Spatial Integrity (unitless)			Coastal Component		4,756	4,796	4,756	4,796
Non-Federal Share of Present Value of Life Cycle Costs	Scenario	(\$ Millions)		Nonstructural Component		0	0	0
	1 / 2	9,958	10,041	Structural Component		23,445	23,639	23,445
	3 / 4	9,958	10,041	Total Project		28,200	28,436	28,200

2075 Residual Risk / Damages - Low Uncertainty (\$ Millions)								Planning Unit 3b Structural Plan Franklin to Abbeville Alt 400-year Design	
Frequency	Scenario 1		Scenario 2		Scenario 3		Scenario 4		
	No Action	With Proj							
10-year	1,024	222	1,523	282	1,013	223	1,543	285	
100-year	4,254	711	5,717	876	4,148	633	5,447	747	
400-year	8,571	1,238	9,628	1,409	7,772	985	8,782	1,145	
1,000-year	11,203	1,679	11,827	1,778	10,886	1,462	11,680	1,621	
2,000-year	12,281	2,167	12,591	2,246	12,370	2,034	12,769	2,112	

Note: Present Value costs and Annual Equivalent numbers are calculated for the period from 2010 to 2075 at common base year 2025 using a 4.7%/8% Federal discount rate. All dollar metrics are based on 2007 price levels.





Alternative: PU3b-F-400-1
Water Surface Elevations (feet - NAVD88 2004.65)

Planning Sub Unit	2010 (Base) Conditions						2060 (Future) Conditions					
	100-yr Event		400-year Event		1,000-yr Event		100-yr Event		400-year Event		1,000-yr Event	
	Without Project	With Project	Without Project	With Project	Without Project	With Project	Without Project	With Project	Without Project	With Project	Without Project	With Project
IBRA_10e	11.6	12.5	15.5	17.1	18.0	20.0	14.8	15.7	18.7	20.3	21.2	23.2
IBRA_10g	11.5	4.3	15.4	4.5	17.8	5.6	14.7	4.3	18.6	4.5	21.0	5.6
IBRA_7f	8.1	3.9	11.3	4.0	14.5	5.3	11.3	3.9	14.5	4.0	17.7	5.3
IBRA_8d	10.1	3.9	15.2	4.0	19.1	5.3	13.3	3.9	18.4	4.0	22.3	5.3
IBRA_9d	9.0	3.9	13.8	4.0	17.1	5.3	12.2	3.9	17.0	4.0	20.3	5.3
MARY_10w	11.7	11.9	16.0	16.2	17.9	19.2	13.9	15.1	17.6	19.4	20.0	22.4
MARY_11e	7.8	0.2	11.3	0.4	14.1	1.5	11.0	0.2	14.5	0.4	17.3	1.5
MARY_6d	7.8	-0.6	9.6	-0.5	12.0	0.1	11.0	-0.6	12.8	-0.5	15.2	0.1
MARY_6n	7.9	0.2	13.9	0.4	14.8	1.5	11.1	0.2	17.1	0.4	18.0	1.5
MARY_7h	7.8	0.2	10.9	0.4	13.2	1.5	11.0	0.2	14.1	0.4	16.4	1.5
MARY_7l	7.8	-0.6	10.6	-0.5	13.1	0.1	11.0	-0.6	13.8	-0.5	16.3	0.1
MARY_8p	8.6	-0.6	12.4	-0.5	14.8	0.1	11.8	-0.6	15.6	-0.5	18.0	0.1
MARY_8q	8.2	2.8	13.5	3.0	17.2	3.6	11.4	2.8	16.7	3.0	20.4	3.6
MARY_9i	9.9	10.5	13.4	14.2	15.4	16.4	13.1	13.7	16.6	17.4	18.6	19.6
VMLN_10h	11.4	4.3	15.6	4.5	18.3	5.6	14.6	4.3	18.8	4.5	21.5	5.6
VMLN_11i	7.8	4.3	11.3	4.5	14.8	5.6	11.0	4.3	14.5	4.5	18.0	5.6
VMLN_14e	7.8	4.3	9.4	4.5	14.3	5.6	11.0	4.3	12.6	4.5	17.5	5.6
VMLN_9j	7.8	4.3	13.1	4.5	16.3	5.6	11.0	4.3	16.3	4.5	19.5	5.6
VMLN_9l	10.6	10.9	13.7	12.5	15.5	14.0	13.8	14.1	16.9	15.7	18.7	17.2
Evaluation Parameters	Confidence Level:			90%	3.2 feet	Levee Design:			No Friction Waves			
	Future Relative Sea Level Rise:					Levee Overtopping:			No Friction Waves			

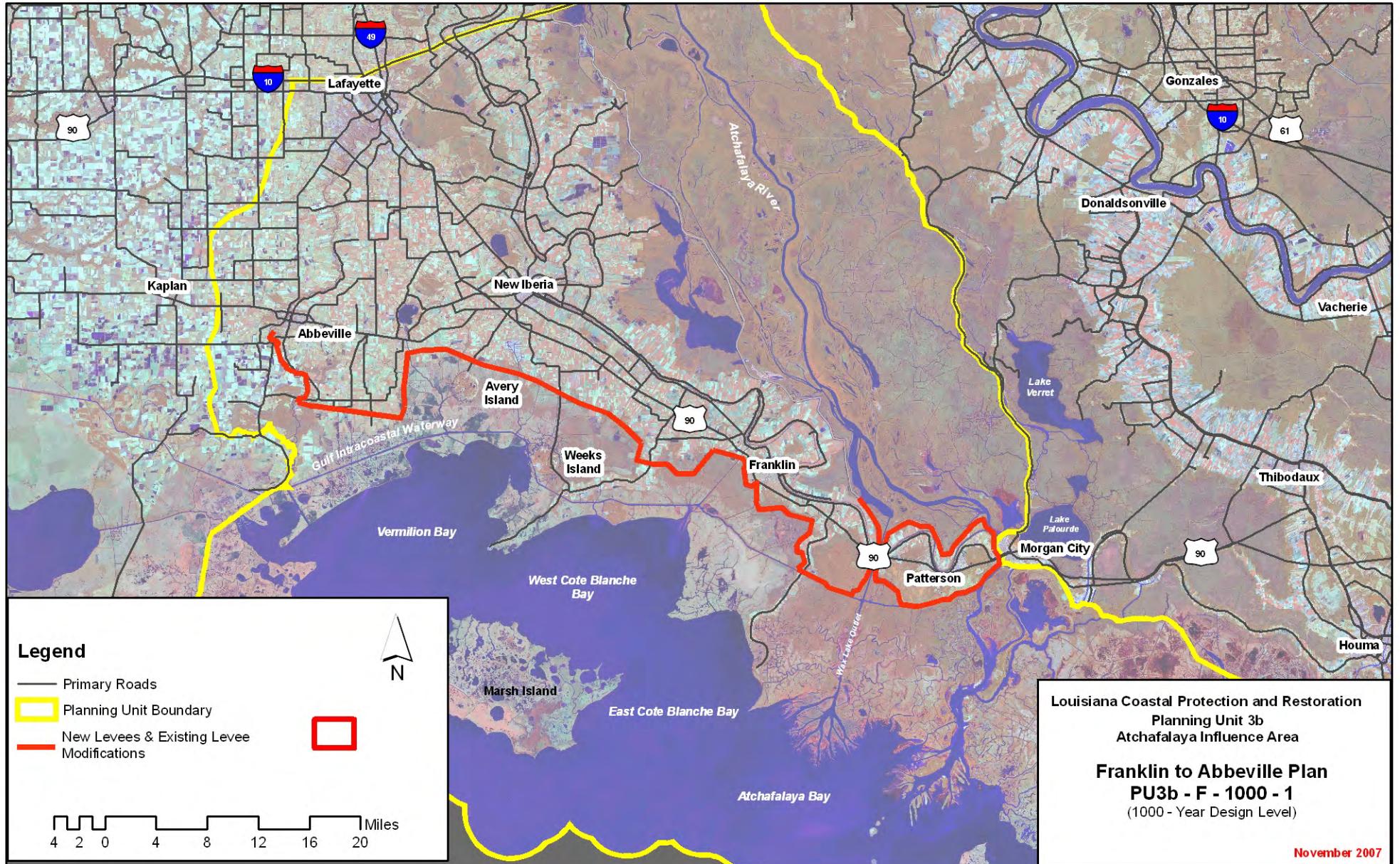
Planning Unit:	3b	Alt. No.:	PU3b-F-1000-1	Category:	Coastal Restoration + Structural Measures
Alternative Description:	Sustain coastal landscape through restoration. Raise ring levee around Patterson/Berwick to 1000-year design level and construct levee along the edge of development north of the GIWW to high ground west of Abbeville at the 1000-year design level.				
Coastal Component:	R1	Nonstructural Component:		None	
Structural Component:	See alternative description above.				

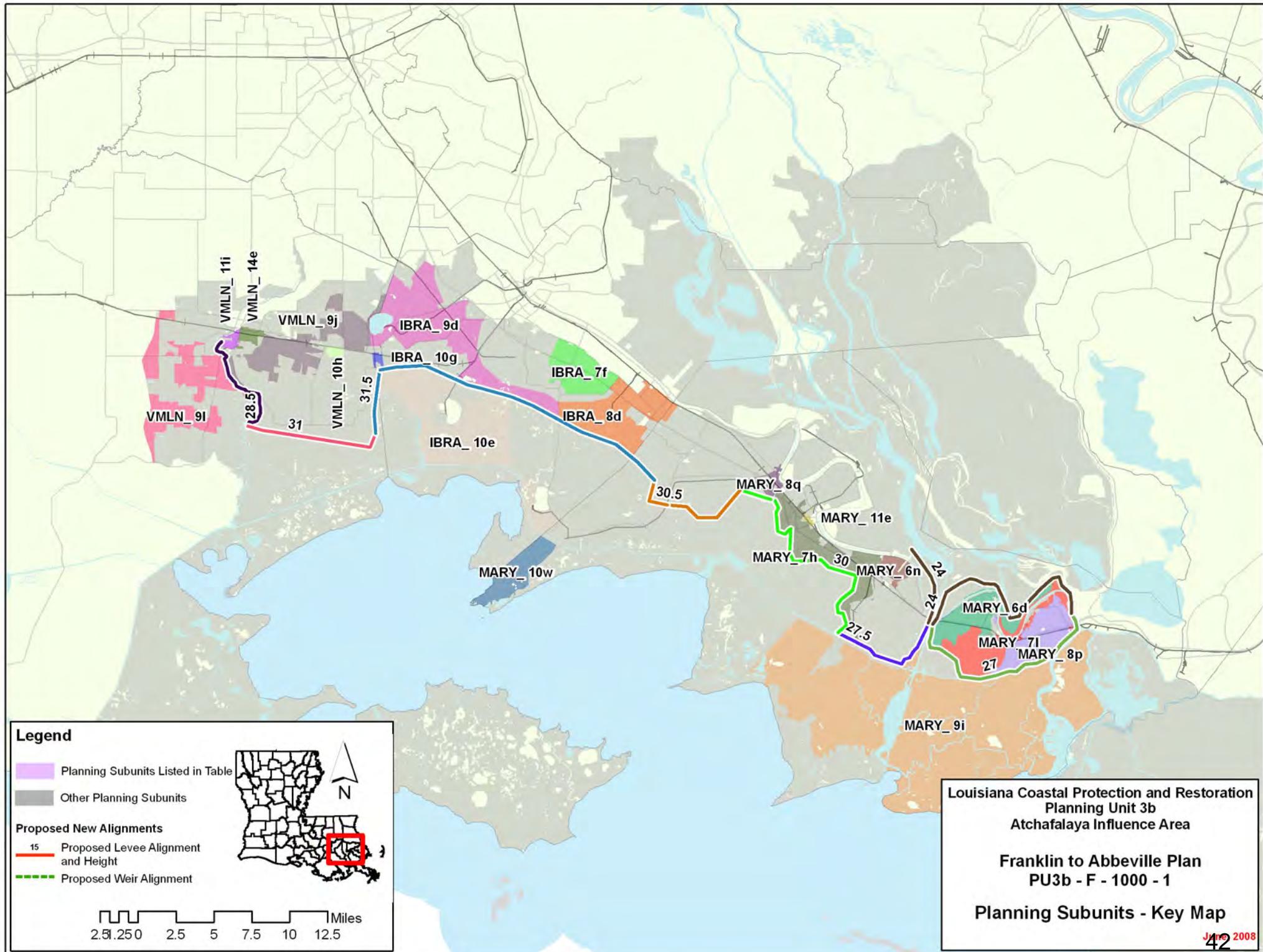
Scenario	Future Conditions (Relative Sea Level Rise (RSLR) and Redevelopment Assumptions)	Uncertainty	Results by Scenario with Uncertainty Bands								
			Life Cycle Cost	Population Impacted	Residual Damages	Gross Regional Output Impacted	Employment Impacted	People's Earned Income Impacted	Archeo. Sites Protected	Historic Properties Protected	Historic Districts Protected
			Ann. Equiv. \$ Millions	Ann. Equiv. #	Ann. Equiv. \$ Millions	Ann. Equiv. \$ Millions	Ann. Equiv. #	Ann. Equiv. \$ Millions	# Sites	# Properties	# Districts
1	Low RSLR High Employment Dispersed Population	High	1,830	2,327	121	154	647	35	202	19	5
		Mid		3,340	188	229	1,023	55	178	19	5
		Low		4,201	267	282	1,236	66	154	18	5
2	High RSLR High Employment Dispersed Population	High	1,832	2,463	132	76	684	38	202	19	5
		Mid		3,492	202	96	1,069	60	178	19	5
		Low		4,394	283	106	1,259	67	154	18	4
3	Low RSLR Business-as-Usual Compact Population	High	1,830	2,178	121	154	624	35	202	19	5
		Mid		3,172	186	229	981	54	178	19	5
		Low		4,011	261	280	1,173	63	154	18	5
4	High RSLR Business-as-Usual Compact Population	High	1,832	2,307	131	170	659	38	202	19	5
		Mid		3,319	199	247	1,019	57	178	19	5
		Low		4,191	275	294	1,204	66	154	18	4

Other Results			Wetlands Created/Protected		Scenario 1	Scenario 2	Scenario 3	Scenario 4
Construction Time (years)			After 50 yrs (% of baseline)		105	104	105	104
Direct Wetland Impacts (acres)			After 100 yrs (% of baseline)		105	100	105	100
Indirect Impacts (unitless)			Present Value of Life Cycle Costs (\$ Millions)					
Spatial Integrity (unitless)			Coastal Component		4,756	4,796	4,756	4,796
Non-Federal Share of Present Value of Life Cycle Costs	Scenario	(\$ Millions)	Nonstructural Component		0	0	0	0
	1 / 2	12,618	Structural Component		31,074	31,087	31,074	31,087
	3 / 4	12,618	Total Project		35,830	35,884	35,830	35,884

2075 Residual Risk / Damages - Low Uncertainty (\$ Millions)								Planning Unit 3b Structural Plan Franklin to Abbeville Alt 1000-year Design	
Frequency	Scenario 1		Scenario 2		Scenario 3		Scenario 4		
	No Action	With Proj							
10-year	1,024	222	1,523	282	1,013	223	1,543	285	
100-year	4,254	711	5,717	876	4,148	633	5,447	747	
400-year	8,571	1,236	9,628	1,408	7,772	983	8,782	1,143	
1,000-year	11,203	1,652	11,827	1,751	10,886	1,433	11,680	1,593	
2,000-year	12,281	1,844	12,591	1,922	12,370	1,696	12,769	1,773	

Note: Present Value costs and Annual Equivalent numbers are calculated for the period from 2010 to 2075 at common base year 2025 using a 4.78% Federal discount rate. All dollar metrics are based on 2007 price levels.





Alternative: PU3b-F-1000-1
Water Surface Elevations (feet - NAVD88 2004.65)

Planning Sub Unit	2010 (Base) Conditions						2060 (Future) Conditions					
	100-yr Event		400-year Event		1,000-yr Event		100-yr Event		400-year Event		1,000-yr Event	
	Without Project	With Project	Without Project	With Project	Without Project	With Project	Without Project	With Project	Without Project	With Project	Without Project	With Project
IBRA_10e	11.6	12.5	15.5	17.1	18.0	20.0	14.8	15.7	18.7	20.3	21.2	23.2
IBRA_10g	11.5	4.3	15.4	4.3	17.8	4.5	14.7	4.3	18.6	4.3	21.0	4.5
IBRA_7f	8.1	3.9	11.3	3.9	14.5	4.0	11.3	3.9	14.5	3.9	17.7	4.0
IBRA_8d	10.1	3.9	15.2	3.9	19.1	4.0	13.3	3.9	18.4	3.9	22.3	4.0
IBRA_9d	9.0	3.9	13.8	3.9	17.1	4.0	12.2	3.9	17.0	3.9	20.3	4.0
MARY_10w	11.7	11.9	16.0	16.2	17.9	19.2	13.9	15.1	17.6	19.4	20.0	22.4
MARY_11e	7.8	0.2	11.3	0.2	14.1	0.4	11.0	0.2	14.5	0.2	17.3	0.4
MARY_6d	7.8	-0.6	9.6	-0.6	12.0	-0.5	11.0	-0.6	12.8	-0.6	15.2	-0.5
MARY_6n	7.9	0.2	13.9	0.2	14.8	0.4	11.1	0.2	17.1	0.2	18.0	0.4
MARY_7h	7.8	0.2	10.9	0.2	13.2	0.4	11.0	0.2	14.1	0.2	16.4	0.4
MARY_7l	7.8	-0.6	10.6	-0.6	13.1	-0.5	11.0	-0.6	13.8	-0.6	16.3	-0.5
MARY_8p	8.6	-0.6	12.4	-0.6	14.8	-0.5	11.8	-0.6	15.6	-0.6	18.0	-0.5
MARY_8q	8.2	2.8	13.5	2.9	17.2	3.0	11.4	2.8	16.7	2.9	20.4	3.0
MARY_9i	9.9	10.5	13.4	14.2	15.4	16.4	13.1	13.7	16.6	17.4	18.6	19.6
VMLN_10h	11.4	4.3	15.6	4.3	18.3	4.5	14.6	4.3	18.8	4.3	21.5	4.5
VMLN_11i	7.8	4.3	11.3	4.3	14.8	4.5	11.0	4.3	14.5	4.3	18.0	4.5
VMLN_14e	7.8	4.3	9.4	4.3	14.3	4.5	11.0	4.3	12.6	4.3	17.5	4.5
VMLN_9j	7.8	4.3	13.1	4.3	16.3	4.5	11.0	4.3	16.3	4.3	19.5	4.5
VMLN_9l	10.6	10.9	13.7	12.5	15.5	14.0	13.8	14.1	16.9	15.7	18.7	17.2
Evaluation Parameters	Confidence Level:			90%	3.2 feet	Levee Design:			No Friction Waves			
	Future Relative Sea Level Rise:					Levee Overtopping:			No Friction Waves			

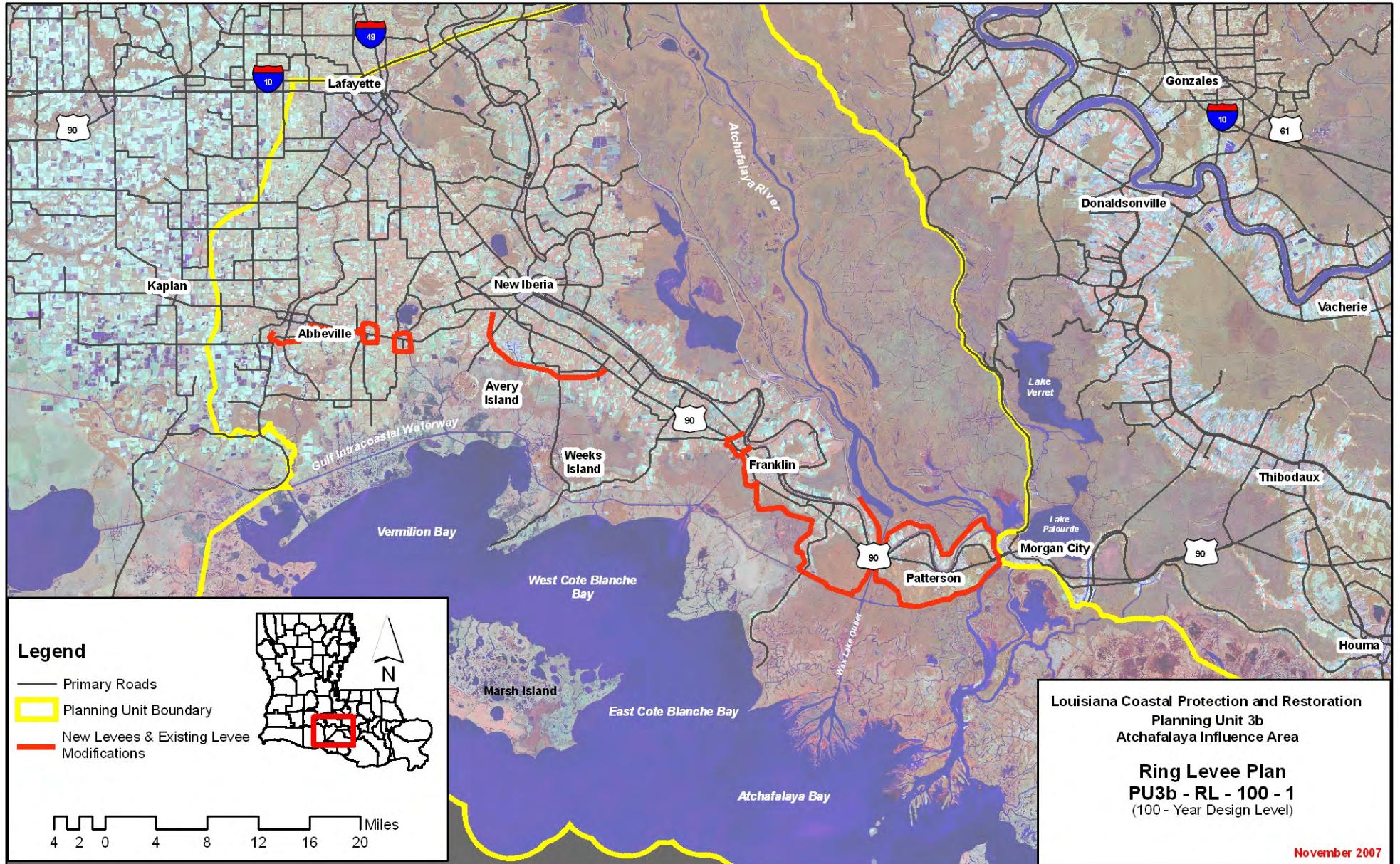
Planning Unit:	3b	Alt. No.:	PU3b-RL-100-1	Category:	Coastal Restoration + Structural Measures
Alternative Description:	Sustain coastal landscape through restoration. Raise ring levee around Patterson/Berwick to 100-year design level and construct ring levees around Franklin/Baldwin, New Iberia, Erath, Delcambre, and Abbeville at the 100-year design level.				
Coastal Component:	R1	Nonstructural Component:		None	
Structural Component:	See alternative description above.				

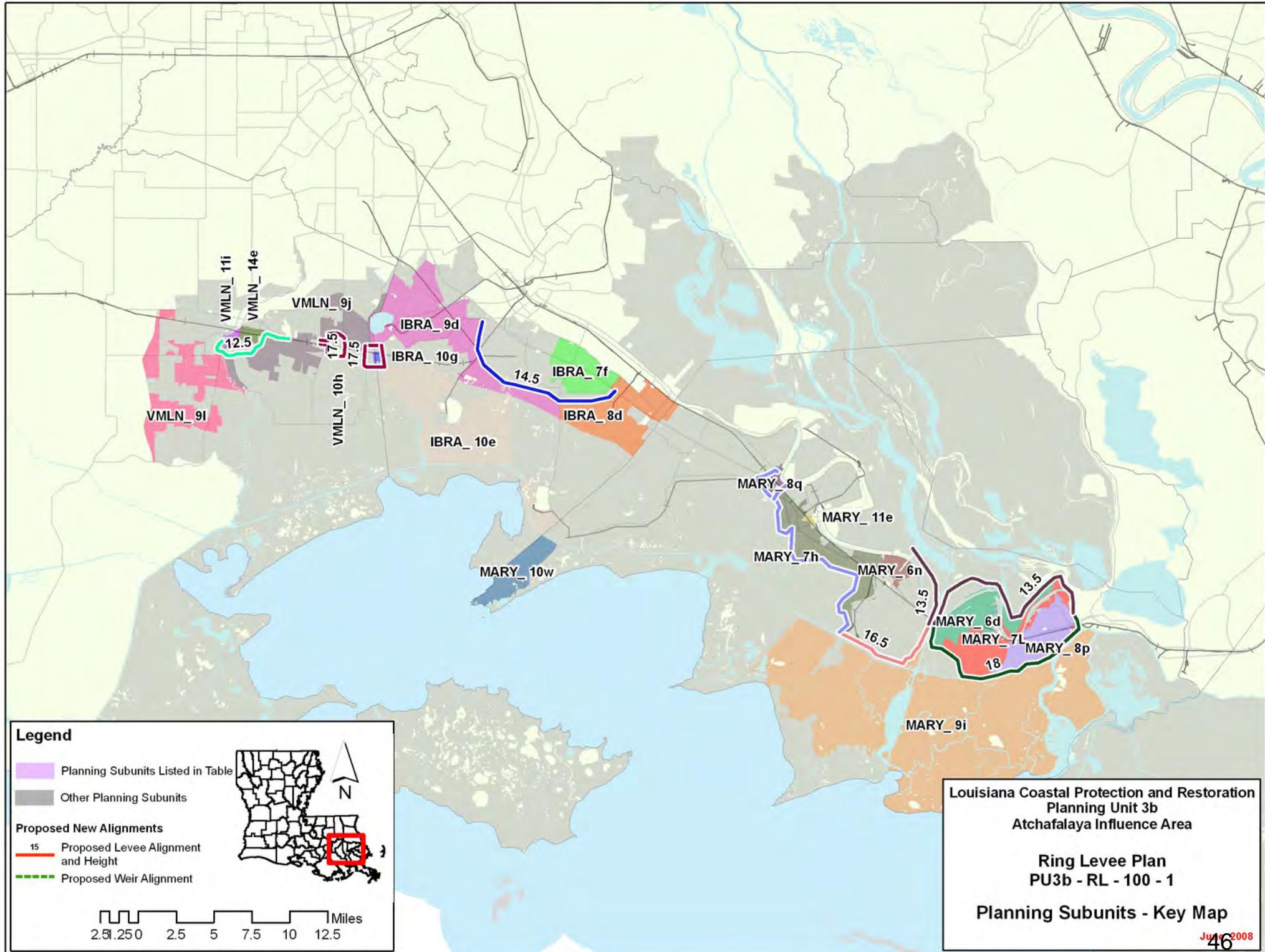
Scenario	Future Conditions (Relative Sea Level Rise (RSLR) and Redevelopment Assumptions)	Uncertainty	Results by Scenario with Uncertainty Bands								
			Life Cycle Cost	Population Impacted	Residual Damages	Gross Regional Output Impacted	Employment Impacted	People's Earned Income Impacted	Archeo. Sites Protected	Historic Properties Protected	Historic Districts Protected
			Ann. Equiv. \$ Millions	Ann. Equiv. #	Ann. Equiv. \$ Millions	Ann. Equiv. \$ Millions	Ann. Equiv. #	Ann. Equiv. \$ Millions	# Sites	# Properties	# Districts
1	Low RSLR High Employment Dispersed Population	High	834	2,785	132	159	615	34	171	15	3
		Mid		3,885	205	234	974	54	147	12	3
		Low		5,093	303	297	1,221	66	123	11	0
2	High RSLR High Employment Dispersed Population	High	838	2,959	146	101	664	39	171	13	3
		Mid		4,104	226	130	1,025	59	147	12	1
		Low		5,385	327	155	1,252	69	123	8	0
3	Low RSLR Business-as-Usual Compact Population	High	834	2,565	131	158	587	33	171	15	3
		Mid		3,644	203	233	925	52	147	12	3
		Low		4,811	296	295	1,141	63	123	11	0
4	High RSLR Business-as-Usual Compact Population	High	838	2,737	144	174	623	36	171	13	3
		Mid		3,848	221	252	966	56	147	12	1
		Low		5,088	316	307	1,174	66	123	8	0

Other Results			Wetlands Created/Protected		Scenario 1	Scenario 2	Scenario 3	Scenario 4
Construction Time (years)			After 50 yrs (% of baseline)		105	104	105	104
Direct Wetland Impacts (acres)			After 100 yrs (% of baseline)		105	100	105	100
Indirect Impacts (unitless)			Present Value of Life Cycle Costs (\$ Millions)					
Spatial Integrity (unitless)			Coastal Component		4,756	4,796	4,756	4,796
Non-Federal Share of Present Value of Life Cycle Costs	Scenario		(\$ Millions)		Nonstructural Component	0	0	0
	1 / 2	5,890	5,916	Structural Component		11,579	11,612	11,579
	3 / 4	5,890	5,916	Total Project		16,335	16,408	16,335

2075 Residual Risk / Damages - Low Uncertainty (\$ Millions)								Planning Unit 3b Structural Plan Ring Levee Alt 100-year Design	
Frequency	Scenario 1		Scenario 2		Scenario 3		Scenario 4		
	No Action	With Proj							
10-year	1,024	316	1,523	453	1,013	315	1,543	456	
100-year	4,254	1,664	5,717	2,321	4,148	1,564	5,447	2,055	
400-year	8,571	6,800	9,628	7,302	7,772	6,294	8,782	6,694	
1,000-year	11,203	9,637	11,827	9,951	10,886	9,032	11,680	9,388	
2,000-year	12,281	10,525	12,591	10,723	12,370	10,107	12,769	10,340	

Note: Present Value costs and Annual Equivalent numbers are calculated for the period from 2010 to 2075 at common base year 2025 using a 4.7%/8% Federal discount rate. All dollar metrics are based on 2007 price levels.





Alternative: PU3b-RL-100-1
Water Surface Elevations (feet - NAVD88 2004.65)

Planning Sub Unit	2010 (Base) Conditions						2060 (Future) Conditions					
	100-yr Event		400-year Event		1,000-yr Event		100-yr Event		400-year Event		1,000-yr Event	
	Without Project	With Project	Without Project	With Project	Without Project	With Project	Without Project	With Project	Without Project	With Project	Without Project	With Project
IBRA_10e	11.6	11.6	15.5	15.5	18.0	18.0	14.8	14.8	18.7	18.7	21.2	21.2
IBRA_10g	11.5	5.4	15.4	17.5	17.8	17.5	14.7	5.4	18.6	17.5	21.0	17.5
IBRA_7f	8.1	6.3	11.3	14.5	14.5	14.5	11.3	6.3	14.5	14.5	17.7	14.5
IBRA_8d	10.1	10.1	15.2	15.2	19.1	19.1	13.3	13.3	18.4	18.4	22.3	22.3
IBRA_9d	9.0	9.0	13.8	13.8	17.1	17.1	12.2	12.2	17.0	17.0	20.3	20.3
MARY_10w	11.7	11.7	16.0	16.0	17.9	17.9	13.9	14.9	17.6	19.2	20.0	21.1
MARY_11e	7.8	0.5	11.3	9.8	14.1	16.5	11.0	0.5	14.5	9.8	17.3	16.5
MARY_6d	7.8	-0.4	9.6	3.5	12.0	10.8	11.0	-0.4	12.8	3.5	15.2	10.8
MARY_6n	7.9	0.5	13.9	9.8	14.8	16.5	11.1	0.5	17.1	9.8	18.0	16.5
MARY_7h	7.8	0.5	10.9	9.8	13.2	16.5	11.0	0.5	14.1	9.8	16.4	16.5
MARY_7l	7.8	-0.4	10.6	3.5	13.1	10.8	11.0	-0.4	13.8	3.5	16.3	10.8
MARY_8p	8.6	-0.4	12.4	3.5	14.8	10.8	11.8	-0.4	15.6	3.5	18.0	10.8
MARY_8q	8.2	5.2	13.5	16.5	17.2	16.5	11.4	5.2	16.7	16.5	20.4	16.5
MARY_9i	9.9	9.9	13.4	13.4	15.4	15.4	13.1	13.1	16.6	16.6	18.6	18.6
VMLN_10h	11.4	6.5	15.6	17.5	18.3	17.5	14.6	6.5	18.8	17.5	21.5	17.5
VMLN_11i	7.8	9.3	11.3	12.5	14.8	12.5	11.0	9.3	14.5	12.5	18.0	12.5
VMLN_14e	7.8	9.3	9.4	12.5	14.3	12.5	11.0	9.3	12.6	12.5	17.5	12.5
VMLN_9j	7.8	7.8	13.1	13.1	16.3	16.3	11.0	11.0	16.3	16.3	19.5	19.5
VMLN_9l	10.6	10.6	13.7	13.7	15.5	15.5	13.8	13.8	16.9	16.9	18.7	18.7
Evaluation Parameters	Confidence Level:			90%	3.2 feet	Levee Design:			No Friction Waves			
	Future Relative Sea Level Rise:					Levee Overtopping:			No Friction Waves			

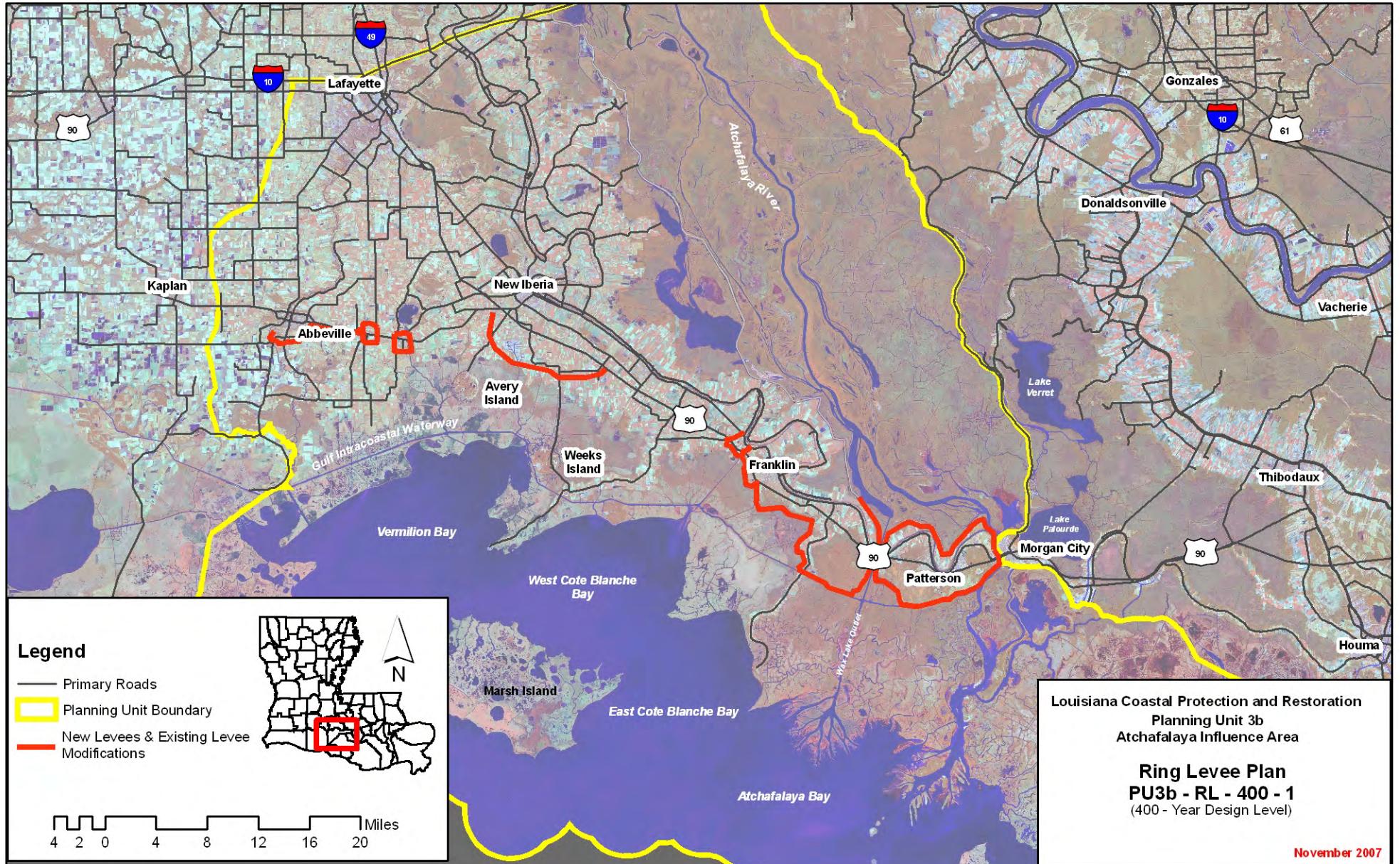
Planning Unit:	3b	Alt. No.:	PU3b-RL-400-1	Category:	Coastal Restoration + Structural Measures
Alternative Description:	Sustain coastal landscape through restoration. Raise ring levee around Patterson/Berwick to 400-year design level and construct ring levees around Franklin/Baldwin, New Iberia, Erath, Delcambre, and Abbeville at the 400-year design level.				
Coastal Component:	R1	Nonstructural Component:		None	
Structural Component:	See alternative description above.				

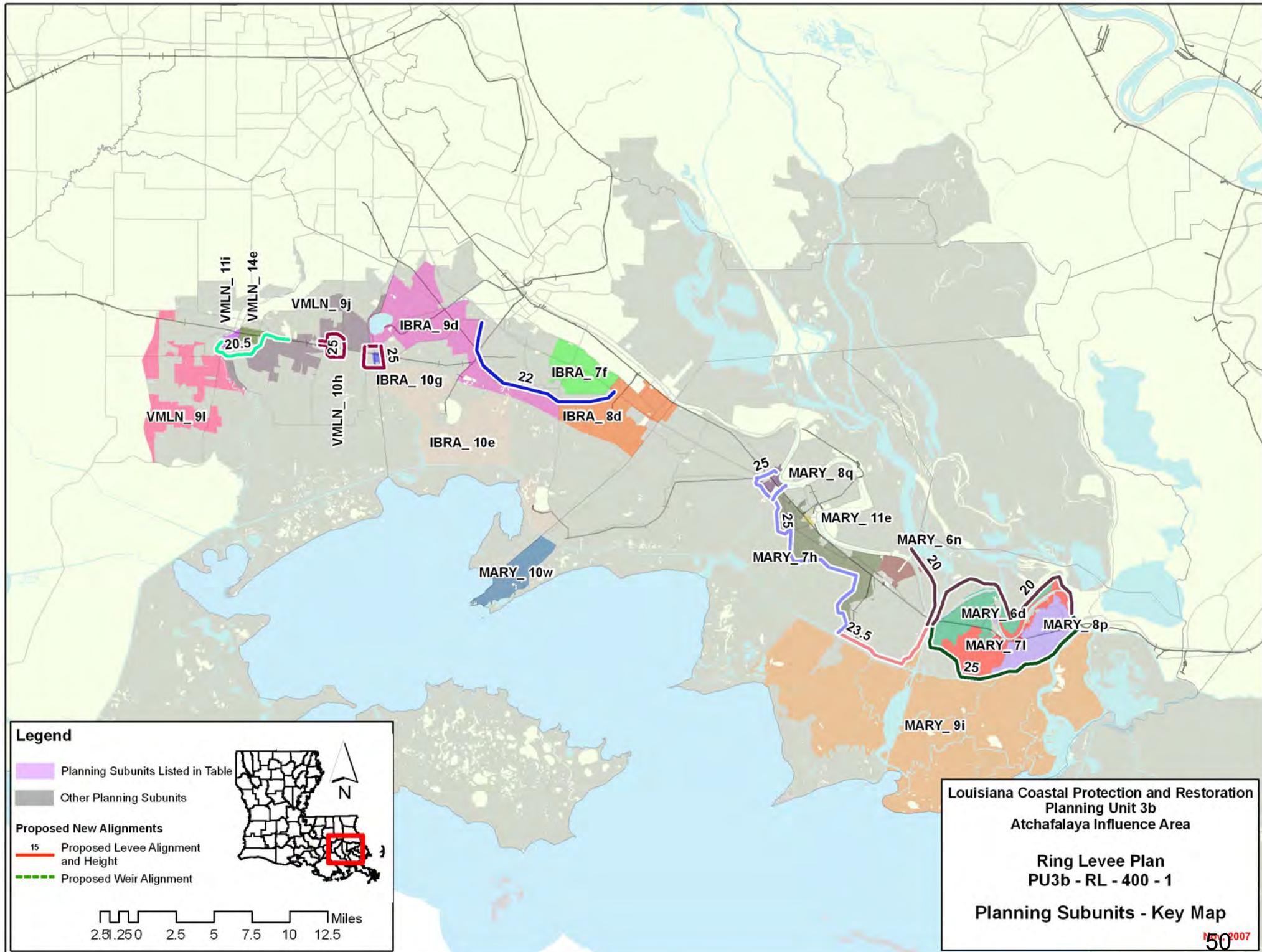
Scenario	Future Conditions (Relative Sea Level Rise (RSLR) and Redevelopment Assumptions)	Uncertainty	Results by Scenario with Uncertainty Bands								
			Life Cycle Cost	Population Impacted	Residual Damages	Gross Regional Output Impacted	Employment Impacted	People's Earned Income Impacted	Archeo. Sites Protected	Historic Properties Protected	Historic Districts Protected
			Ann. Equiv. \$ Millions	Ann. Equiv. #	Ann. Equiv. \$ Millions	Ann. Equiv. \$ Millions	Ann. Equiv. #	Ann. Equiv. \$ Millions	# Sites	# Properties	# Districts
1	Low RSLR High Employment Dispersed Population	High	1,162	2,842	134	165	646	36	171	17	3
		Mid		3,943	207	239	1,009	56	147	16	3
		Low		4,988	299	297	1,238	67	123	15	3
2	High RSLR High Employment Dispersed Population	High	1,165	3,027	150	100	698	41	171	15	3
		Mid		4,174	229	121	1,064	61	147	15	3
		Low		5,289	324	139	1,272	70	123	13	2
3	Low RSLR Business-as-Usual Compact Population	High	1,162	2,616	134	164	618	35	171	17	3
		Mid		3,695	204	237	960	54	147	16	3
		Low		4,698	290	294	1,163	64	123	15	3
4	High RSLR Business-as-Usual Compact Population	High	1,165	2,799	148	182	658	39	171	15	3
		Mid		3,911	223	259	1,006	58	147	15	3
		Low		4,986	311	308	1,200	67	123	13	2

Other Results			Wetlands Created/Protected		Scenario 1	Scenario 2	Scenario 3	Scenario 4
Construction Time (years)			After 50 yrs (% of baseline)		105	104	105	104
Direct Wetland Impacts (acres)			After 100 yrs (% of baseline)		105	100	105	100
Indirect Impacts (unitless)			Present Value of Life Cycle Costs (\$ Millions)					
Spatial Integrity (unitless)			Coastal Component		4,756	4,796	4,756	4,796
Non-Federal Share of Present Value of Life Cycle Costs	Scenario	(\$ Millions)	Nonstructural Component		0	0	0	0
	1 / 2	8,142	Structural Component		17,996	18,024	17,996	18,024
	3 / 4	8,142	Total Project		22,752	22,820	22,752	22,820

2075 Residual Risk / Damages - Low Uncertainty (\$ Millions)								Planning Unit 3b Structural Plan Ring Levee Alt 400-year Design	
Frequency	Scenario 1		Scenario 2		Scenario 3		Scenario 4		
	No Action	With Proj							
10-year	1,024	316	1,523	453	1,013	315	1,543	456	
100-year	4,254	1,628	5,717	2,284	4,148	1,526	5,447	2,017	
400-year	8,571	3,993	9,628	4,495	7,772	3,117	8,782	3,516	
1,000-year	11,203	6,852	11,827	7,166	10,886	5,917	11,680	6,273	
2,000-year	12,281	9,058	12,591	9,256	12,370	8,573	12,769	8,807	

Note: Present Value costs and Annual Equivalent numbers are calculated for the period from 2010 to 2075 at common base year 2025 using a 4.7%/8% Federal discount rate. All dollar metrics are based on 2007 price levels.





Alternative: PU3b-RL-400-1
Water Surface Elevations (feet - NAVD88 2004.65)

Planning Sub Unit	2010 (Base) Conditions						2060 (Future) Conditions					
	100-yr Event		400-year Event		1,000-yr Event		100-yr Event		400-year Event		1,000-yr Event	
	Without Project	With Project	Without Project	With Project	Without Project	With Project	Without Project	With Project	Without Project	With Project	Without Project	With Project
IBRA_10e	11.6	11.6	15.5	15.5	18.0	18.0	14.8	14.8	18.7	18.7	21.2	21.2
IBRA_10g	11.5	3.7	15.4	5.5	17.8	10.5	14.7	3.7	18.6	5.5	21.0	10.5
IBRA_7f	8.1	6.0	11.3	6.2	14.5	8.4	11.3	6.0	14.5	6.2	17.7	8.4
IBRA_8d	10.1	10.1	15.2	15.2	19.1	19.1	13.3	13.3	18.4	18.4	22.3	22.3
IBRA_9d	9.0	9.0	13.8	13.8	17.1	17.1	12.2	12.2	17.0	17.0	20.3	20.3
MARY_10w	11.7	11.7	16.0	16.0	17.9	17.9	13.9	14.9	17.6	19.2	20.0	21.1
MARY_11e	7.8	0.2	11.3	0.4	14.1	1.5	11.0	0.2	14.5	0.4	17.3	1.5
MARY_6d	7.8	-0.6	9.6	-0.5	12.0	0.1	11.0	-0.6	12.8	-0.5	15.2	0.1
MARY_6n	7.9	0.2	13.9	0.4	14.8	1.5	11.1	0.2	17.1	0.4	18.0	1.5
MARY_7h	7.8	0.2	10.9	0.4	13.2	1.5	11.0	0.2	14.1	0.4	16.4	1.5
MARY_7l	7.8	-0.6	10.6	-0.5	13.1	0.1	11.0	-0.6	13.8	-0.5	16.3	0.1
MARY_8p	8.6	-0.6	12.4	-0.5	14.8	0.1	11.8	-0.6	15.6	-0.5	18.0	0.1
MARY_8q	8.2	3.9	13.5	4.7	17.2	9.6	11.4	3.9	16.7	4.7	20.4	9.6
MARY_9i	9.9	9.9	13.4	13.4	15.4	15.4	13.1	13.1	16.6	16.6	18.6	18.6
VMLN_10h	11.4	5.6	15.6	6.5	18.3	10.2	14.6	5.6	18.8	6.5	21.5	10.2
VMLN_11i	7.8	8.4	11.3	9.3	14.8	16.8	11.0	8.4	14.5	9.3	18.0	16.8
VMLN_14e	7.8	8.4	9.4	9.3	14.3	16.8	11.0	8.4	12.6	9.3	17.5	16.8
VMLN_9j	7.8	7.8	13.1	13.1	16.3	16.3	11.0	11.0	16.3	16.3	19.5	19.5
VMLN_9l	10.6	10.6	13.7	13.7	15.5	15.5	13.8	13.8	16.9	16.9	18.7	18.7
Evaluation Parameters	Confidence Level:			90%	3.2 feet	Levee Design:			No Friction Waves			
	Future Relative Sea Level Rise:					Levee Overtopping:			No Friction Waves			

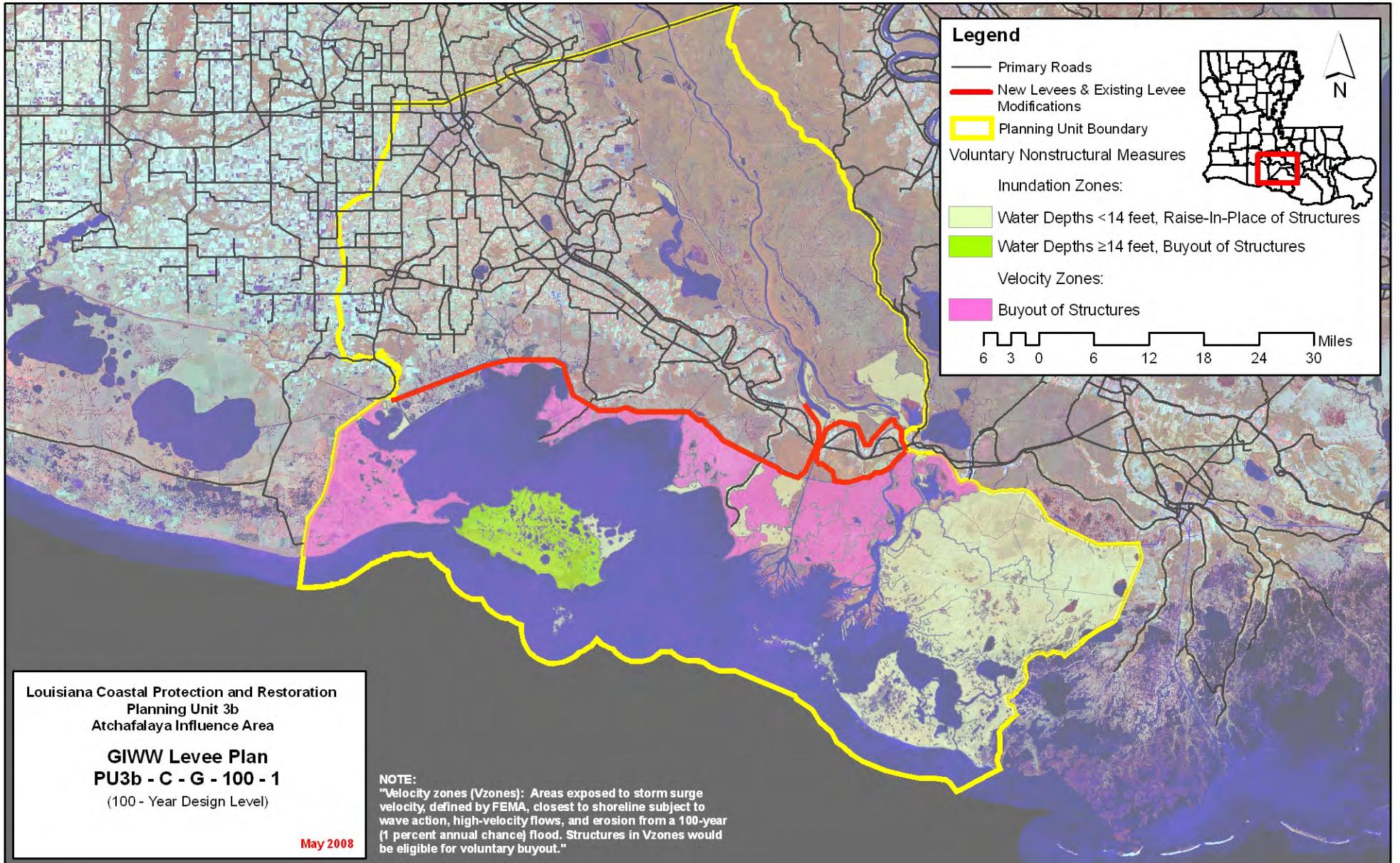
Planning Unit:	3b	Alt. No.:	PU3b-C-G-100-1	Category:	Comprehensive (Coastal+Structural+Nonstructural)
Alternative Description:	Comprehensive plan--Same coastal and structural measures as Alternative PU3b-G-100-1 but with complementary nonstructural measures to reduce residual risk.				
Coastal Component:	R1	Nonstructural Component:		100-yr complementary measures	
Structural Component:	Same as Alternative PU3b-G-100-1				

Scenario	Future Conditions (Relative Sea Level Rise (RSLR) and Redevelopment Assumptions)	Uncertainty	Results by Scenario with Uncertainty Bands								
			Life Cycle Cost	Population Impacted	Residual Damages	Gross Regional Output Impacted	Employment Impacted	People's Earned Income Impacted	Archeo. Sites Protected	Historic Properties Protected	Historic Districts Protected
			Ann. Equiv. \$ Millions	Ann. Equiv. #	Ann. Equiv. \$ Millions	Ann. Equiv. \$ Millions	Ann. Equiv. #	Ann. Equiv. \$ Millions	# Sites	# Properties	# Districts
1	Low RSLR High Employment Dispersed Population	High	1,032	1,624	78	100	432	23	312	20	5
		Mid		2,429	129	163	744	39	288	19	5
		Low		3,191	191	208	928	48	264	18	5
2	High RSLR High Employment Dispersed Population	High	1,035	1,697	84	36	461	25	312	20	5
		Mid		2,515	136	48	766	41	288	18	5
		Low		3,288	201	61	942	49	264	18	4
3	Low RSLR Business-as-Usual Compact Population	High	1,033	1,526	78	100	415	22	312	20	5
		Mid		2,322	128	162	713	39	288	19	5
		Low		3,066	189	209	887	47	264	18	5
4	High RSLR Business-as-Usual Compact Population	High	1,036	1,597	83	113	444	25	312	20	5
		Mid		2,404	135	174	736	41	288	18	5
		Low		3,162	198	216	904	48	264	18	4

Other Results			Wetlands Created/Protected		Scenario 1	Scenario 2	Scenario 3	Scenario 4
Construction Time (years)			After 50 yrs (% of baseline)		105	104	105	104
Direct Wetland Impacts (acres)			After 100 yrs (% of baseline)		105	100	105	100
Indirect Impacts (unitless)			Present Value of Life Cycle Costs (\$ Millions)					
Spatial Integrity (unitless)			Coastal Component		4,756	4,796	4,756	4,796
Non-Federal Share of Present Value of Life Cycle Costs	Scenario	(\$ Millions)	Nonstructural Component		244	244	255	255
	1 / 2	7,132	Structural Component		15,214	15,238	15,214	15,238
	3 / 4	7,136	Total Project		20,214	20,278	20,225	20,290

2075 Residual Risk / Damages - Low Uncertainty (\$ Millions)								Planning Unit 3b Comprehensive Plan GIWW Alt 100-year Design	
Frequency	Scenario 1		Scenario 2		Scenario 3		Scenario 4		
	No Action	With Proj							
10-year	1,024	68	1,523	83	1,013	68	1,543	84	
100-year	4,254	147	5,717	204	4,148	146	5,447	200	
400-year	8,571	426	9,628	478	7,772	435	8,782	496	
1,000-year	11,203	2,733	11,827	2,754	10,886	2,815	11,680	2,839	
2,000-year	12,281	6,240	12,591	6,286	12,370	6,192	12,769	6,211	

Note: Present Value costs and Annual Equivalent numbers are calculated for the period from 2010 to 2075 at common base year 2025 using a 4.7%/8% Federal discount rate. All dollar metrics are based on 2007 price levels.



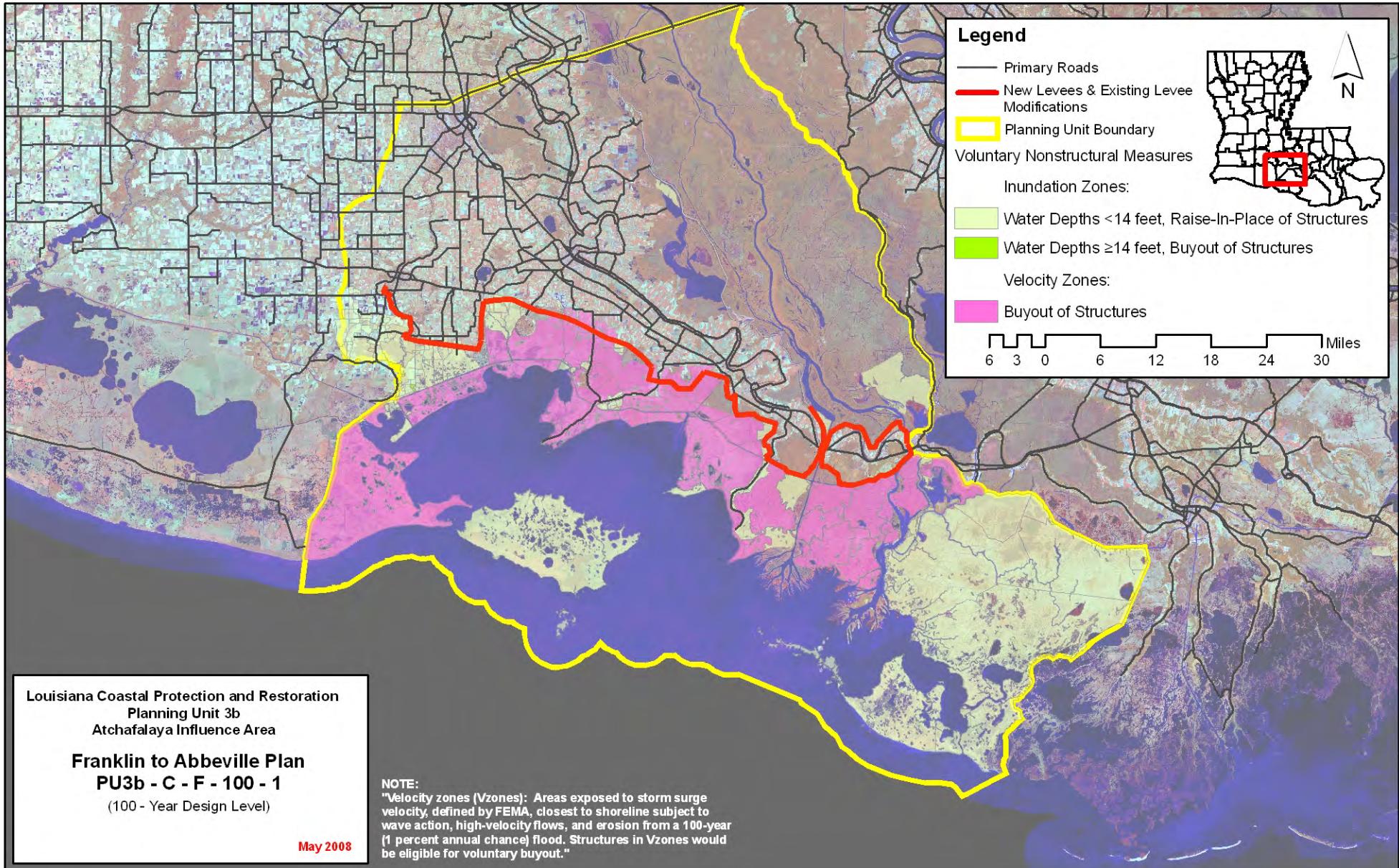
Planning Unit:	3b	Alt. No.:	PU3b-C-F-100-1	Category:	Comprehensive (Coastal+Structural+Nonstructural)
Alternative Description:	Comprehensive plan--Same coastal and structural measures as Alternative PU3b-F-100-1 but with complementary nonstructural measures to reduce residual risk.				
Coastal Component:	R1	Nonstructural Component:		100-yr complementary measures	
Structural Component:	Same as Alternative PU3b-F-100-1				

Scenario	Future Conditions (Relative Sea Level Rise (RSLR) and Redevelopment Assumptions)	Uncertainty	Results by Scenario with Uncertainty Bands								
			Life Cycle Cost	Population Impacted	Residual Damages	Gross Regional Output Impacted	Employment Impacted	People's Earned Income Impacted	Archeo. Sites Protected	Historic Properties Protected	Historic Districts Protected
			Ann. Equiv. \$ Millions	Ann. Equiv. #	Ann. Equiv. \$ Millions	Ann. Equiv. \$ Millions	Ann. Equiv. #	Ann. Equiv. \$ Millions	# Sites	# Properties	# Districts
1	Low RSLR High Employment Dispersed Population	High	972	1,904	80	101	432	23	202	16	3
		Mid		2,825	137	171	773	42	178	15	3
		Low		3,839	229	238	1,046	56	154	14	1
2	High RSLR High Employment Dispersed Population	High	976	2,002	87	38	465	26	202	16	3
		Mid		2,934	148	60	808	45	178	15	2
		Low		3,987	242	92	1,060	57	154	14	0
3	Low RSLR Business-as-Usual Compact Population	High	973	1,775	80	100	414	23	202	16	3
		Mid		2,672	135	170	739	41	178	15	3
		Low		3,666	223	234	970	52	154	14	1
4	High RSLR Business-as-Usual Compact Population	High	977	1,866	87	115	447	25	202	16	3
		Mid		2,779	145	182	763	43	178	15	2
		Low		3,801	233	243	991	54	154	14	0

Other Results			Wetlands Created/Protected		Scenario 1	Scenario 2	Scenario 3	Scenario 4
Construction Time (years)			After 50 yrs (% of baseline)		105	104	105	104
Direct Wetland Impacts (acres)			After 100 yrs (% of baseline)		105	100	105	100
Indirect Impacts (unitless)			Present Value of Life Cycle Costs (\$ Millions)					
Spatial Integrity (unitless)			Coastal Component		4,756	4,796	4,756	4,796
Non-Federal Share of Present Value of Life Cycle Costs	Scenario	(\$ Millions)	Nonstructural Component		365	365	379	379
	1 / 2	6,749	Structural Component		13,918	13,955	13,918	13,955
	3 / 4	6,754	Total Project		19,039	19,116	19,053	19,130

2075 Residual Risk / Damages - Low Uncertainty (\$ Millions)								Planning Unit 3b Comprehensive Plan Franklin to Abbeville Alt 100-year Design	
Frequency	Scenario 1		Scenario 2		Scenario 3		Scenario 4		
	No Action	With Proj							
10-year	1,024	83	1,523	102	1,013	82	1,543	102	
100-year	4,254	418	5,717	631	4,148	351	5,447	508	
400-year	8,571	5,300	9,628	5,482	7,772	4,923	8,782	5,092	
1,000-year	11,203	10,720	11,827	10,826	10,886	10,477	11,680	10,643	
2,000-year	12,281	11,245	12,591	11,328	12,370	11,154	12,769	11,236	

Note: Present Value costs and Annual Equivalent numbers are calculated for the period from 2010 to 2075 at common base year 2025 using a 4.7%/8% Federal discount rate. All dollar metrics are based on 2007 price levels.



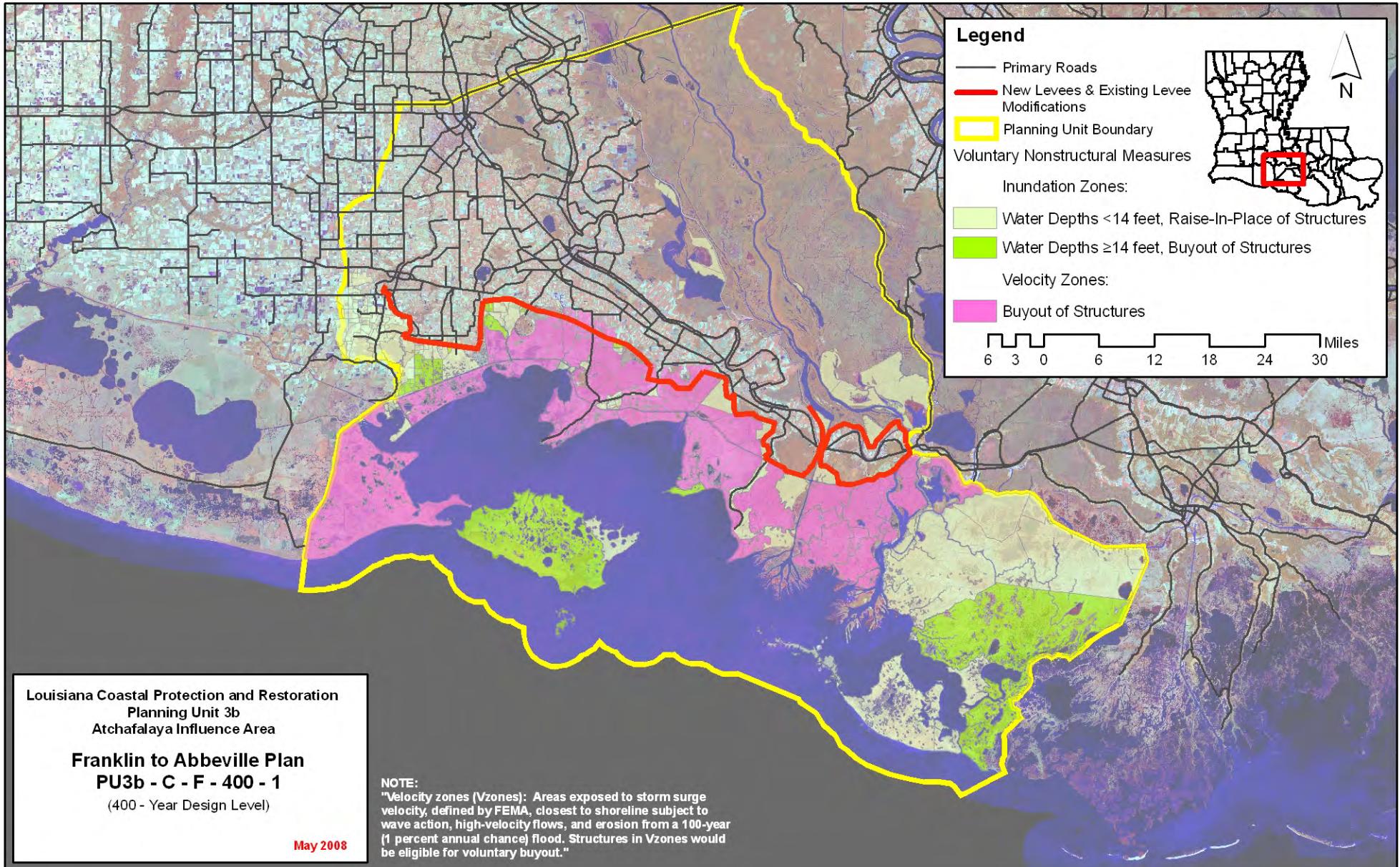
Planning Unit:	3b	Alt. No.:	PU3b-C-F-400-1	Category:	Comprehensive (Coastal+Structural+Nonstructural)
Alternative Description:	Comprehensive plan--Same coastal and structural measures as Alternative PU3b-F-400-1 but with complementary nonstructural measures to reduce residual risk.				
Coastal Component:	R1	Nonstructural Component:		400-yr complementary measures	
Structural Component:	Same as Alternative PU3b-F-400-1				

Scenario	Future Conditions (Relative Sea Level Rise (RSLR) and Redevelopment Assumptions)	Uncertainty	Results by Scenario with Uncertainty Bands								
			Life Cycle Cost	Population Impacted	Residual Damages	Gross Regional Output Impacted	Employment Impacted	People's Earned Income Impacted	Archeo. Sites Protected	Historic Properties Protected	Historic Districts Protected
			Ann. Equiv. \$ Millions	Ann. Equiv. #	Ann. Equiv. \$ Millions	Ann. Equiv. \$ Millions	Ann. Equiv. #	Ann. Equiv. \$ Millions	# Sites	# Properties	# Districts
1	Low RSLR High Employment Dispersed Population	High	1,455	2,092	85	115	482	26	202	19	5
		Mid		3,014	141	181	821	44	178	19	5
		Low		3,801	209	229	1,017	54	154	18	5
2	High RSLR High Employment Dispersed Population	High	1,467	2,207	93	41	511	29	202	19	5
		Mid		3,144	152	58	862	48	178	19	5
		Low		3,970	222	67	1,036	55	154	18	4
3	Low RSLR Business-as-Usual Compact Population	High	1,463	1,953	84	114	464	26	202	19	5
		Mid		2,857	139	180	785	43	178	19	5
		Low		3,624	204	226	960	51	154	18	5
4	High RSLR Business-as-Usual Compact Population	High	1,475	2,061	92	126	490	28	202	19	5
		Mid		2,983	149	195	816	46	178	19	5
		Low		3,781	215	238	985	53	154	18	4

Other Results			Wetlands Created/Protected		Scenario 1	Scenario 2	Scenario 3	Scenario 4
Construction Time (years)			After 50 yrs (% of baseline)		105	104	105	104
Direct Wetland Impacts (acres)			After 100 yrs (% of baseline)		105	100	105	100
Indirect Impacts (unitless)			Present Value of Life Cycle Costs (\$ Millions)					
Spatial Integrity (unitless)			Coastal Component		4,756	4,796	4,756	4,796
Non-Federal Share of Present Value of Life Cycle Costs	Scenario	(\$ Millions)	Nonstructural Component		293	293	452	452
	1 / 2	10,061	10,144	Structural Component		23,445	23,639	23,445
	3 / 4	10,117	10,199	Total Project		28,494	28,729	28,652

2075 Residual Risk / Damages - Low Uncertainty (\$ Millions)								Planning Unit 3b Comprehensive Plan Franklin to Abbeville Alt 400-year Design	
Frequency	Scenario 1		Scenario 2		Scenario 3		Scenario 4		
	No Action	With Proj							
10-year	1,024	70	1,523	88	1,013	70	1,543	88	
100-year	4,254	244	5,717	376	4,148	185	5,447	277	
400-year	8,571	763	9,628	1,051	7,772	540	8,782	800	
1,000-year	11,203	1,369	11,827	1,520	10,886	1,155	11,680	1,365	
2,000-year	12,281	1,921	12,591	2,017	12,370	1,790	12,769	1,884	

Note: Present Value costs and Annual Equivalent numbers are calculated for the period from 2010 to 2075 at common base year 2025 using a 4.7%/8% Federal discount rate. All dollar metrics are based on 2007 price levels.



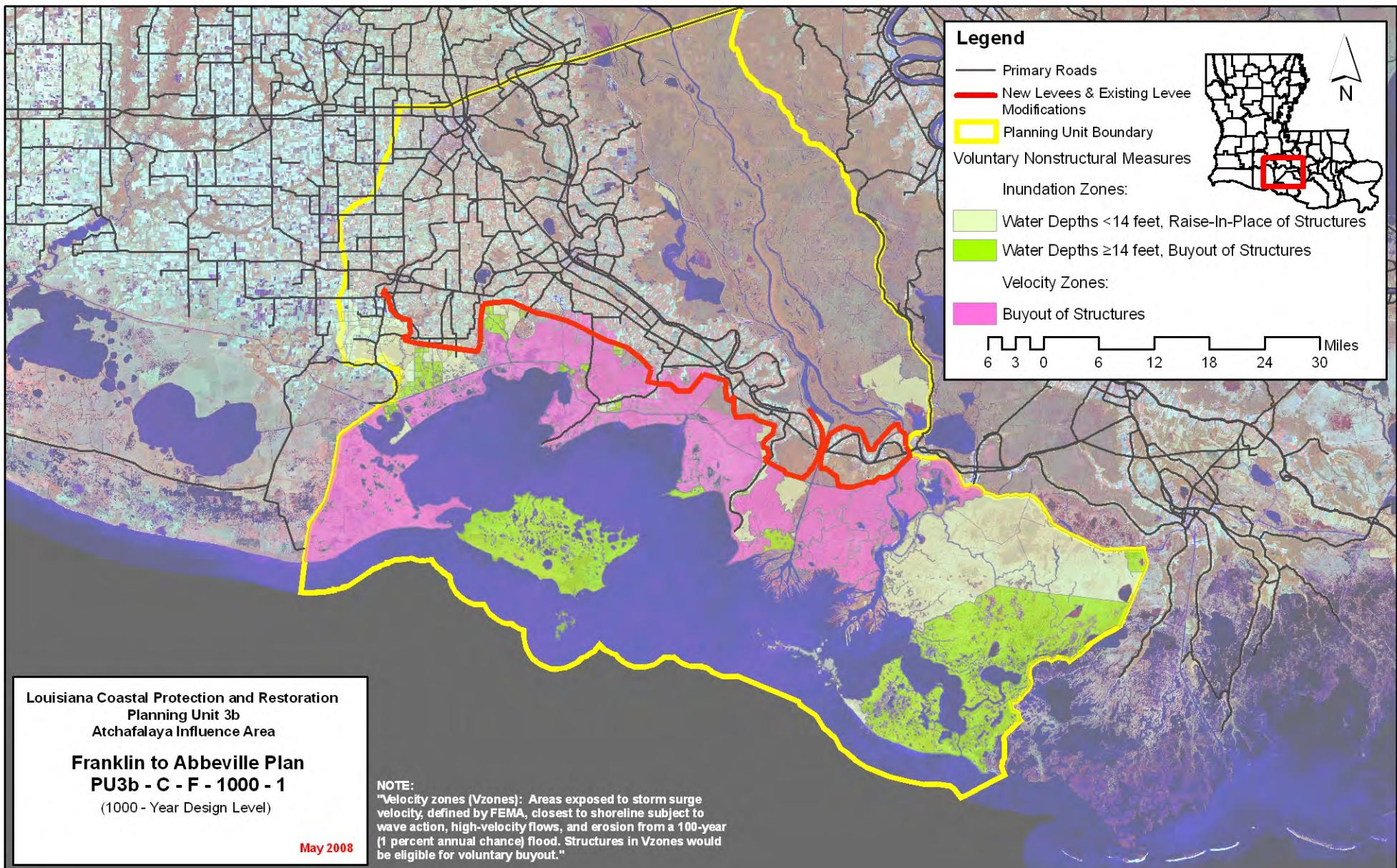
Planning Unit:	3b	Alt. No.:	PU3b-C-F-1000-1	Category:	Comprehensive (Coastal+Structural+Nonstructural)
Alternative Description:	Comprehensive plan--Same coastal and structural measures as Alternative PU3b-F-1000-1 but with complementary nonstructural measures to reduce residual risk.				
Coastal Component:	R1	Nonstructural Component:		1000-yr complementary measures	
Structural Component:	Same as Alternative PU3b-F-1000-1				

Scenario	Future Conditions (Relative Sea Level Rise (RSLR) and Redevelopment Assumptions)	Uncertainty	Results by Scenario with Uncertainty Bands								
			Life Cycle Cost	Population Impacted	Residual Damages	Gross Regional Output Impacted	Employment Impacted	People's Earned Income Impacted	Archeo. Sites Protected	Historic Properties Protected	Historic Districts Protected
			Ann. Equiv. \$ Millions	Ann. Equiv. #	Ann. Equiv. \$ Millions	Ann. Equiv. \$ Millions	Ann. Equiv. #	Ann. Equiv. \$ Millions	# Sites	# Properties	# Districts
1	Low RSLR High Employment Dispersed Population	High	1,853	2,269	91	128	530	29	202	19	5
		Mid		3,280	152	202	900	49	178	19	5
		Low		4,128	224	251	1,104	58	154	18	5
2	High RSLR High Employment Dispersed Population	High	1,856	2,403	100	50	566	32	202	19	5
		Mid		3,431	164	65	937	52	178	19	5
		Low		4,320	239	78	1,137	61	154	18	4
3	Low RSLR Business-as-Usual Compact Population	High	1,855	2,119	91	129	512	29	202	19	5
		Mid		3,112	151	202	866	48	178	19	5
		Low		3,939	220	252	1,057	57	154	18	5
4	High RSLR Business-as-Usual Compact Population	High	1,857	2,246	99	144	545	32	202	19	5
		Mid		3,258	162	219	903	51	178	19	5
		Low		4,119	233	267	1,088	60	154	18	4

Other Results			Wetlands Created/Protected		Scenario 1	Scenario 2	Scenario 3	Scenario 4
Construction Time (years)			After 50 yrs (% of baseline)		105	104	105	104
Direct Wetland Impacts (acres)			After 100 yrs (% of baseline)		105	100	105	100
Indirect Impacts (unitless)			Present Value of Life Cycle Costs (\$ Millions)					
Spatial Integrity (unitless)			Coastal Component		4,756	4,796	4,756	4,796
Non-Federal Share of Present Value of Life Cycle Costs	Scenario	(\$ Millions)	Nonstructural Component		459	459	492	492
	1 / 2	12,779	Structural Component		31,074	31,087	31,074	31,087
	3 / 4	12,790	Total Project		36,288	36,343	36,321	36,375

2075 Residual Risk / Damages - Low Uncertainty (\$ Millions)								Planning Unit 3b Comprehensive Plan Franklin to Abbeville Alt 1000-year Design	
Frequency	Scenario 1		Scenario 2		Scenario 3		Scenario 4		
	No Action	With Proj							
10-year	1,024	65	1,523	81	1,013	65	1,543	82	
100-year	4,254	153	5,717	226	4,148	144	5,447	196	
400-year	8,571	556	9,628	811	7,772	402	8,782	616	
1,000-year	11,203	1,125	11,827	1,365	10,886	956	11,680	1,228	
2,000-year	12,281	1,507	12,591	1,636	12,370	1,368	12,769	1,491	

Note: Present Value costs and Annual Equivalent numbers are calculated for the period from 2010 to 2075 at common base year 2025 using a 4.7%/8% Federal discount rate. All dollar metrics are based on 2007 price levels.



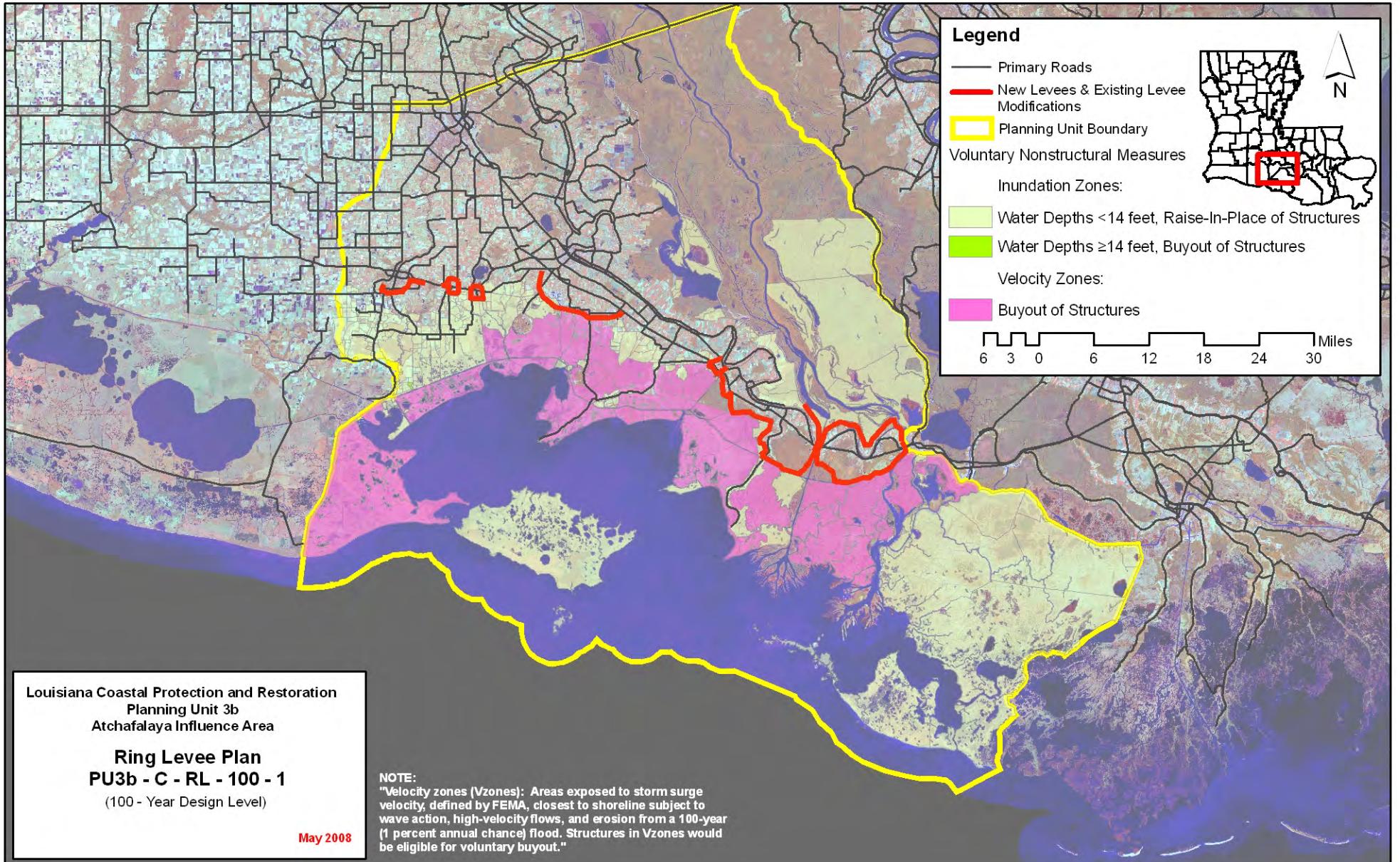
Planning Unit:	3b	Alt. No.:	PU3b-C-RL-100-1	Category:	Comprehensive (Coastal+Structural+Nonstructural)
Alternative Description:	Comprehensive plan--Same coastal and structural measures as Alternative PU3b-RL-100-1 but with complementary nonstructural measures to reduce residual risk.				
Coastal Component:	R1	Nonstructural Component:		100-yr complementary measures	
Structural Component:	Same as Alternative PU3b-RL-100-1				

Scenario	Future Conditions (Relative Sea Level Rise (RSLR) and Redevelopment Assumptions)	Uncertainty	Results by Scenario with Uncertainty Bands								
			Life Cycle Cost	Population Impacted	Residual Damages	Gross Regional Output Impacted	Employment Impacted	People's Earned Income Impacted	Archeo. Sites Protected	Historic Properties Protected	Historic Districts Protected
			Ann. Equiv. \$ Millions	Ann. Equiv. #	Ann. Equiv. \$ Millions	Ann. Equiv. \$ Millions	Ann. Equiv. #	Ann. Equiv. \$ Millions	# Sites	# Properties	# Districts
1	Low RSLR High Employment Dispersed Population	High	878	2,711	91	126	472	26	171	15	3
		Mid		3,807	154	204	841	47	147	12	3
		Low		4,988	244	267	1,085	60	123	11	0
2	High RSLR High Employment Dispersed Population	High	882	2,882	103	73	535	32	171	13	3
		Mid		4,026	174	100	889	52	147	12	1
		Low		5,280	269	124	1,110	62	123	8	0
3	Low RSLR Business-as-Usual Compact Population	High	880	2,487	90	127	455	26	171	15	3
		Mid		3,563	151	205	802	46	147	12	3
		Low		4,704	236	266	1,014	57	123	11	0
4	High RSLR Business-as-Usual Compact Population	High	884	2,657	101	147	504	30	171	13	3
		Mid		3,767	168	224	841	49	147	12	1
		Low		4,981	257	278	1,044	59	123	8	0

Other Results			Wetlands Created/Protected		Scenario 1	Scenario 2	Scenario 3	Scenario 4	
Construction Time (years)			After 50 yrs (% of baseline)		105	104	105	104	
Direct Wetland Impacts (acres)			After 100 yrs (% of baseline)		105	100	105	100	
Indirect Impacts (unitless)			Present Value of Life Cycle Costs (\$ Millions)						
Spatial Integrity (unitless)			Coastal Component		4,756	4,796	4,756	4,796	
Non-Federal Share of Present Value of Life Cycle Costs	Scenario		Nonstructural Component		862	862	907	907	
	1 / 2	6,192	6,218	Structural Component		11,579	11,612	11,579	11,612
	3 / 4	6,208	6,233	Total Project		17,197	17,271	17,242	17,315

2075 Residual Risk / Damages - Low Uncertainty (\$ Millions)								Planning Unit 3b Comprehensive Plan Ring Levee Alt 100-year Design	
Frequency	Scenario 1		Scenario 2		Scenario 3		Scenario 4		
	No Action	With Proj							
10-year	1,024	107	1,523	128	1,013	105	1,543	125	
100-year	4,254	1,038	5,717	1,859	4,148	926	5,447	1,585	
400-year	8,571	6,486	9,628	7,016	7,772	5,973	8,782	6,399	
1,000-year	11,203	9,360	11,827	9,686	10,886	8,745	11,680	9,113	
2,000-year	12,281	10,261	12,591	10,468	12,370	9,833	12,769	10,075	

Note: Present Value costs and Annual Equivalent numbers are calculated for the period from 2010 to 2075 at common base year 2025 using a 4.7%/8% Federal discount rate. All dollar metrics are based on 2007 price levels.



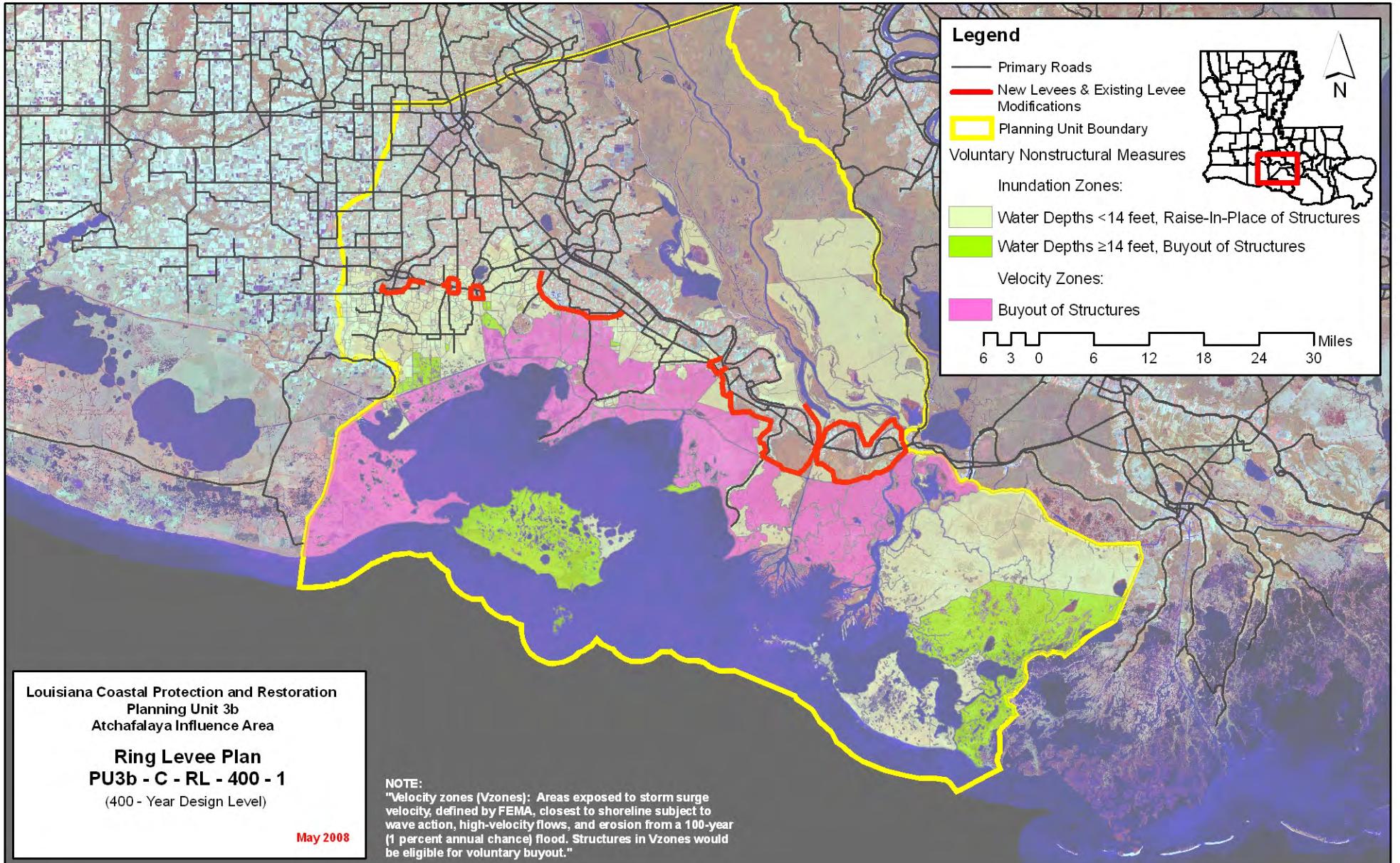
Planning Unit:	3b	Alt. No.:	PU3b-C-RL-400-1	Category:	Comprehensive (Coastal+Structural+Nonstructural)
Alternative Description:	Comprehensive plan--Same coastal and structural measures as Alternative PU3b-RL-400-1 but with complementary nonstructural measures to reduce residual risk.				
Coastal Component:	R1	Nonstructural Component:		400-yr complementary measures	
Structural Component:	Same as Alternative PU3b-RL-400-1				

Scenario	Future Conditions (Relative Sea Level Rise (RSLR) and Redevelopment Assumptions)	Uncertainty	Results by Scenario with Uncertainty Bands								
			Life Cycle Cost	Population Impacted	Residual Damages	Gross Regional Output Impacted	Employment Impacted	People's Earned Income Impacted	Archeo. Sites Protected	Historic Properties Protected	Historic Districts Protected
			Ann. Equiv. \$ Millions	Ann. Equiv. #	Ann. Equiv. \$ Millions	Ann. Equiv. \$ Millions	Ann. Equiv. #	Ann. Equiv. \$ Millions	# Sites	# Properties	# Districts
1	Low RSLR High Employment Dispersed Population	High	1,213	2,767	88	129	492	27	171	17	3
		Mid		3,864	143	196	832	46	147	16	3
		Low		4,882	213	247	1,037	56	123	15	3
2	High RSLR High Employment Dispersed Population	High	1,216	2,949	97	57	525	31	171	15	3
		Mid		4,095	156	72	869	49	147	15	3
		Low		5,184	229	85	1,058	58	123	13	2
3	Low RSLR Business-as-Usual Compact Population	High	1,253	2,537	87	131	478	27	171	17	3
		Mid		3,613	142	197	801	45	147	16	3
		Low		4,591	208	248	990	54	123	15	3
4	High RSLR Business-as-Usual Compact Population	High	1,256	2,718	96	144	506	30	171	15	3
		Mid		3,829	154	213	836	48	147	15	3
		Low		4,878	223	259	1,016	56	123	13	2

Other Results			Wetlands Created/Protected		Scenario 1	Scenario 2	Scenario 3	Scenario 4	
Construction Time (years)			After 50 yrs (% of baseline)		105	104	105	104	
Direct Wetland Impacts (acres)			After 100 yrs (% of baseline)		105	100	105	100	
Indirect Impacts (unitless)			Present Value of Life Cycle Costs (\$ Millions)						
Spatial Integrity (unitless)			Coastal Component		4,756	4,796	4,756	4,796	
Non-Federal Share of Present Value of Life Cycle Costs	Scenario		Nonstructural Component		1,002	1,002	1,785	1,785	
	1 / 2	8,493	8,516	Structural Component		17,996	18,024	17,996	18,024
	3 / 4	8,767	8,791	Total Project		23,754	23,822	24,537	24,605

2075 Residual Risk / Damages - Low Uncertainty (\$ Millions)								Planning Unit 3b Comprehensive Plan Ring Levee Alt 400-year Design	
Frequency	Scenario 1		Scenario 2		Scenario 3		Scenario 4		
	No Action	With Proj							
10-year	1,024	95	1,523	113	1,013	92	1,543	110	
100-year	4,254	291	5,717	376	4,148	284	5,447	364	
400-year	8,571	1,827	9,628	3,227	7,772	1,413	8,782	2,466	
1,000-year	11,203	6,161	11,827	6,696	10,886	5,280	11,680	5,812	
2,000-year	12,281	8,635	12,591	8,885	12,370	8,156	12,769	8,441	

Note: Present Value costs and Annual Equivalent numbers are calculated for the period from 2010 to 2075 at common base year 2025 using a 4.7%/8% Federal discount rate. All dollar metrics are based on 2007 price levels.



**LOUISIANA COASTAL PROTECTION AND RESTORATION FINAL TECHNICAL REPORT
EVALUATION RESULTS APPENDIX**

Planning Unit 4

Louisiana Coastal Protection and Restoration

Planning Unit 4
Chenier Plain

**Water Surface Elevations
100-Year Event
2010 Base Conditions**

May 2008

Planning Unit 4

Legend

-7	3	13	23
-6	4	14	24
-5	5	15	25
-4	6	16	26
-3	7	17	27
-2	8	18	28
-1	9	19	29
0	10	20	30
1	11	21	21 LACP Planning Units
2	12	22	



4 2 0 4 8 12 16 Miles

Louisiana Coastal Protection and Restoration

Planning Unit 4
Chenier Plain

Water Depths
100-Year Event
2010 Base Conditions

May 2008

Planning Unit 4

Legend



0	7	14	21
1	8	15	22
2	9	16	23
3	10	17	24
4	11	18	25
5	12	19	LACP R Planning Units
6	13	20	

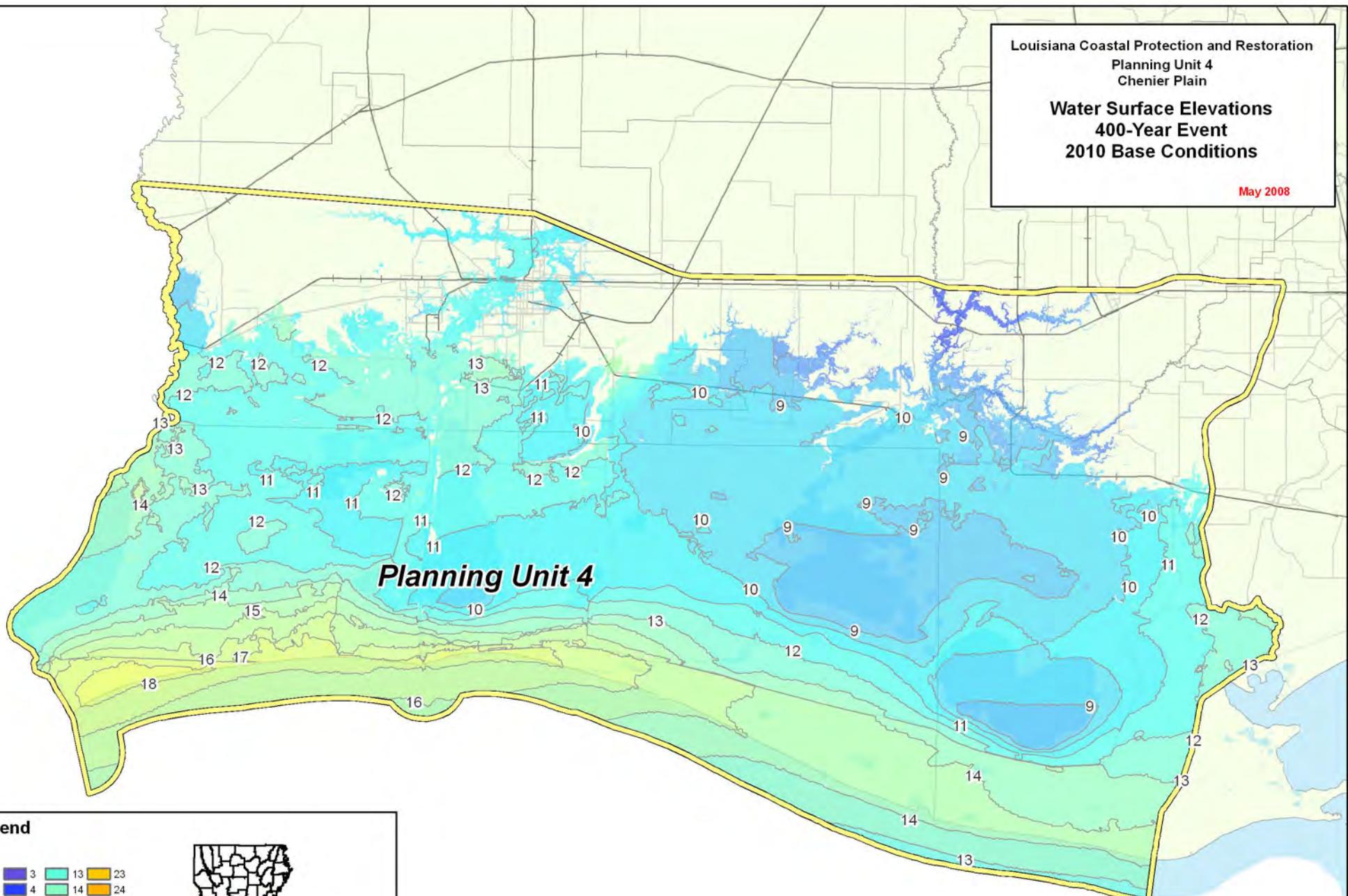
4 2 0 4 8 12 16 Miles

Louisiana Coastal Protection and Restoration

Planning Unit 4
Chenier Plain

**Water Surface Elevations
400-Year Event
2010 Base Conditions**

May 2008



Legend

-7	3	13	23
-6	4	14	24
-5	5	15	25
-4	6	16	26
-3	7	17	27
-2	8	18	28
-1	9	19	29
0	10	20	30
1	11	21	LACP/R Planning Units
2	12	22	



4 2 0 4 8 12 16 Miles

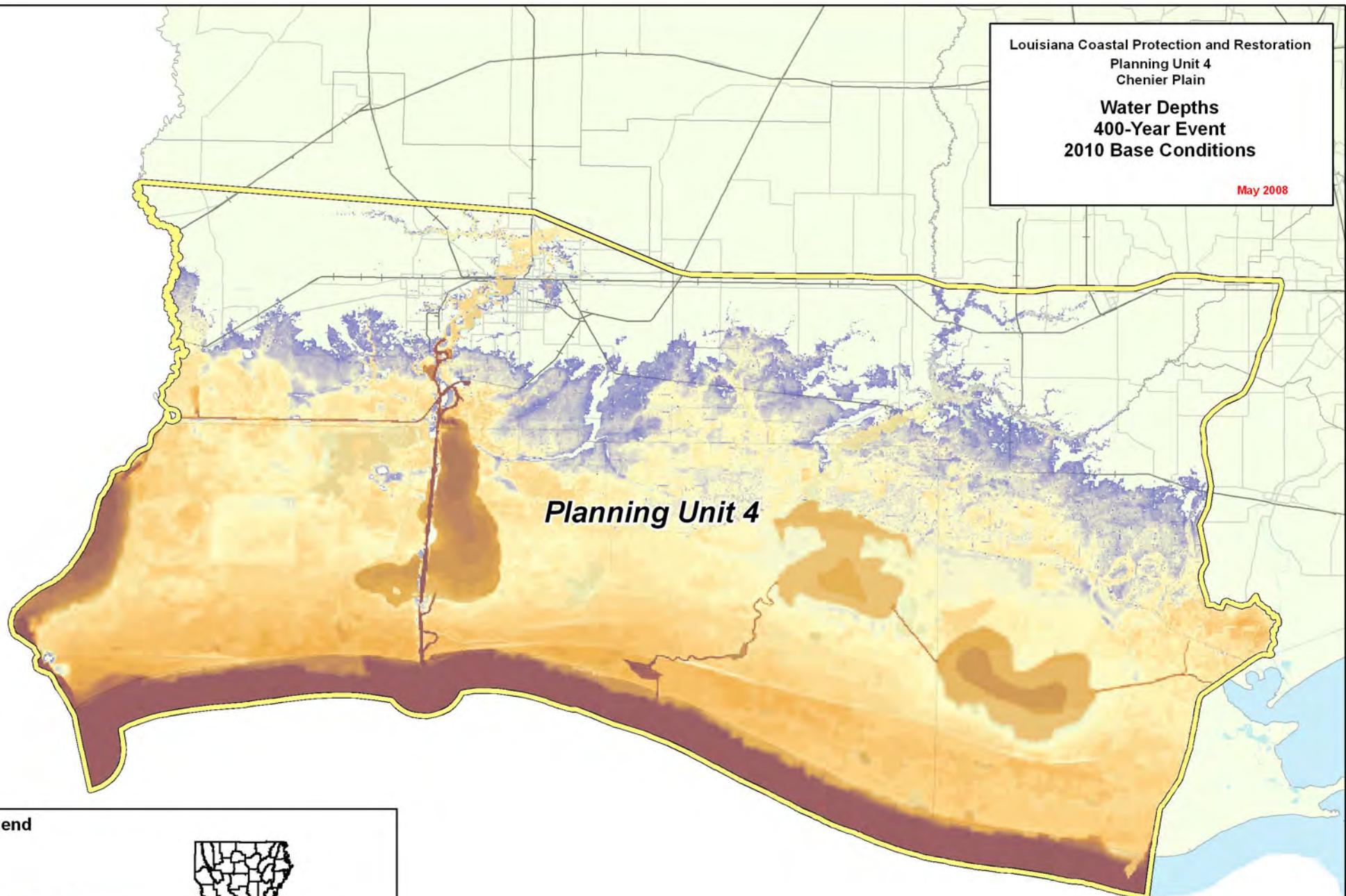
Louisiana Coastal Protection and Restoration

Planning Unit 4
Chenier Plain

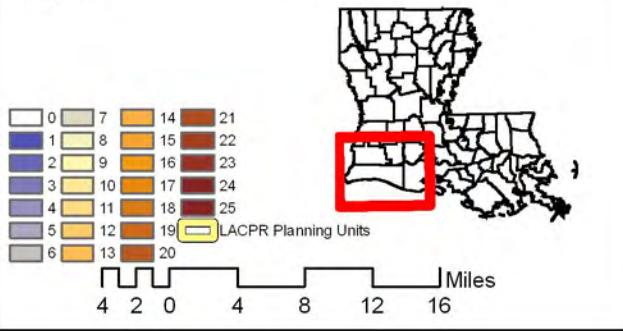
Water Depths
400-Year Event
2010 Base Conditions

May 2008

Planning Unit 4



Legend

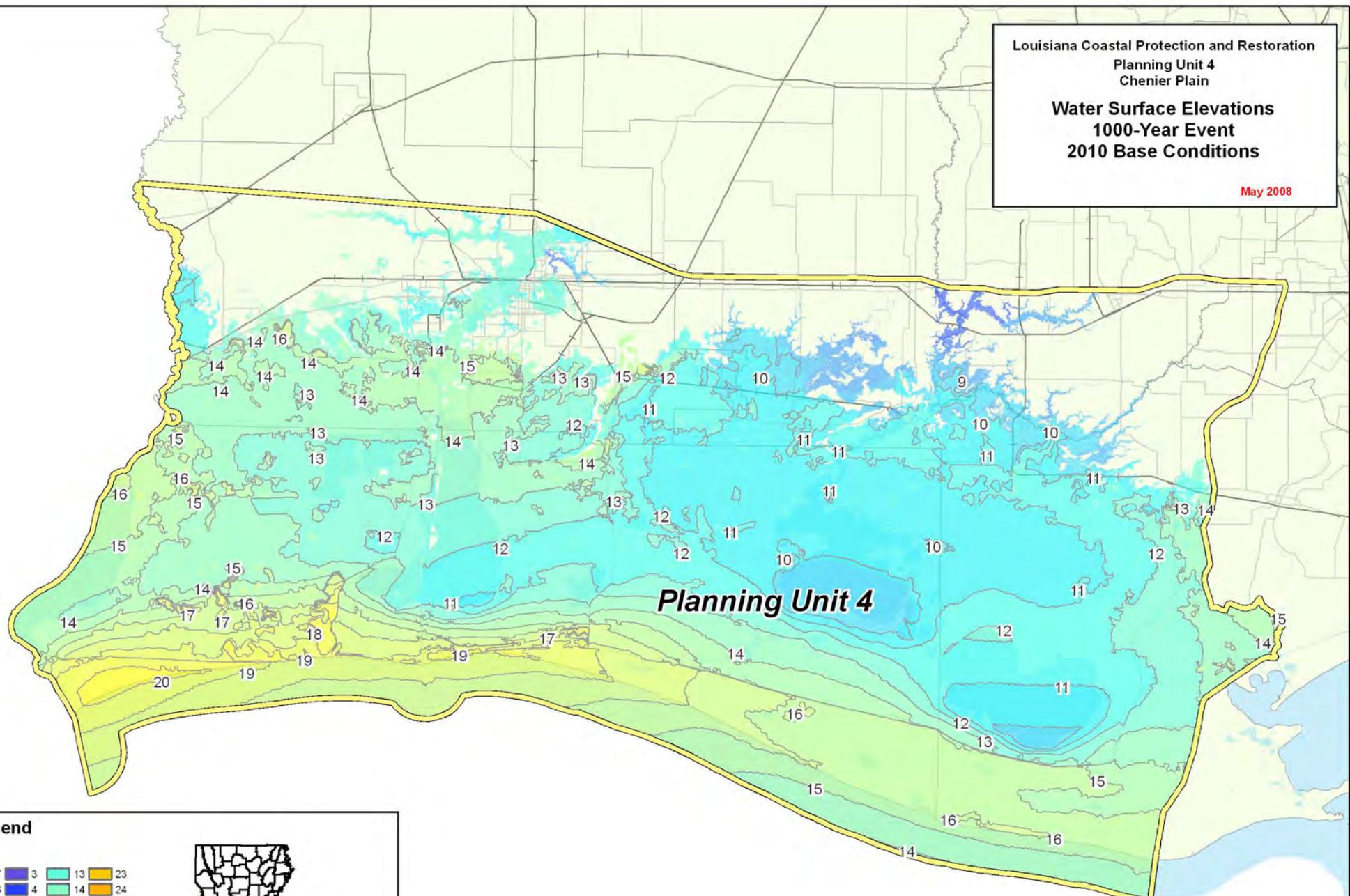


Louisiana Coastal Protection and Restoration

Planning Unit 4
Chenier Plain

Water Surface Elevations
1000-Year Event
2010 Base Conditions

May 2008



Legend

-7	3	13	23
-6	4	14	24
-5	5	15	25
-4	6	16	26
-3	7	17	27
-2	8	18	28
-1	9	19	29
0	10	20	30
1	11	21	22
2	12	23	



4 2 0 4 8 12 16 Miles

Louisiana Coastal Protection and Restoration

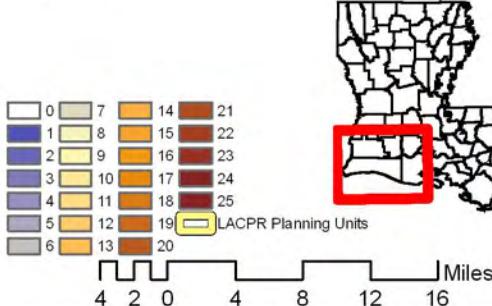
Planning Unit 4
Chenier Plain

Water Depths
1000-Year Event
2010 Base Conditions

May 2008

Planning Unit 4

Legend



Louisiana Coastal Protection and Restoration

Planning Unit 4
Chenier Plain

**Water Surface Elevations
100-Year Event
2060 No Action**

May 2008

Planning Unit 4

Legend

-7	3	13	23
-6	4	14	24
-5	5	15	25
-4	6	16	26
-3	7	17	27
-2	8	18	28
-1	9	19	29
0	10	20	30
1	11	21	LACP Planning Units
2	12	22	



4 2 0 4 8 12 16 Miles

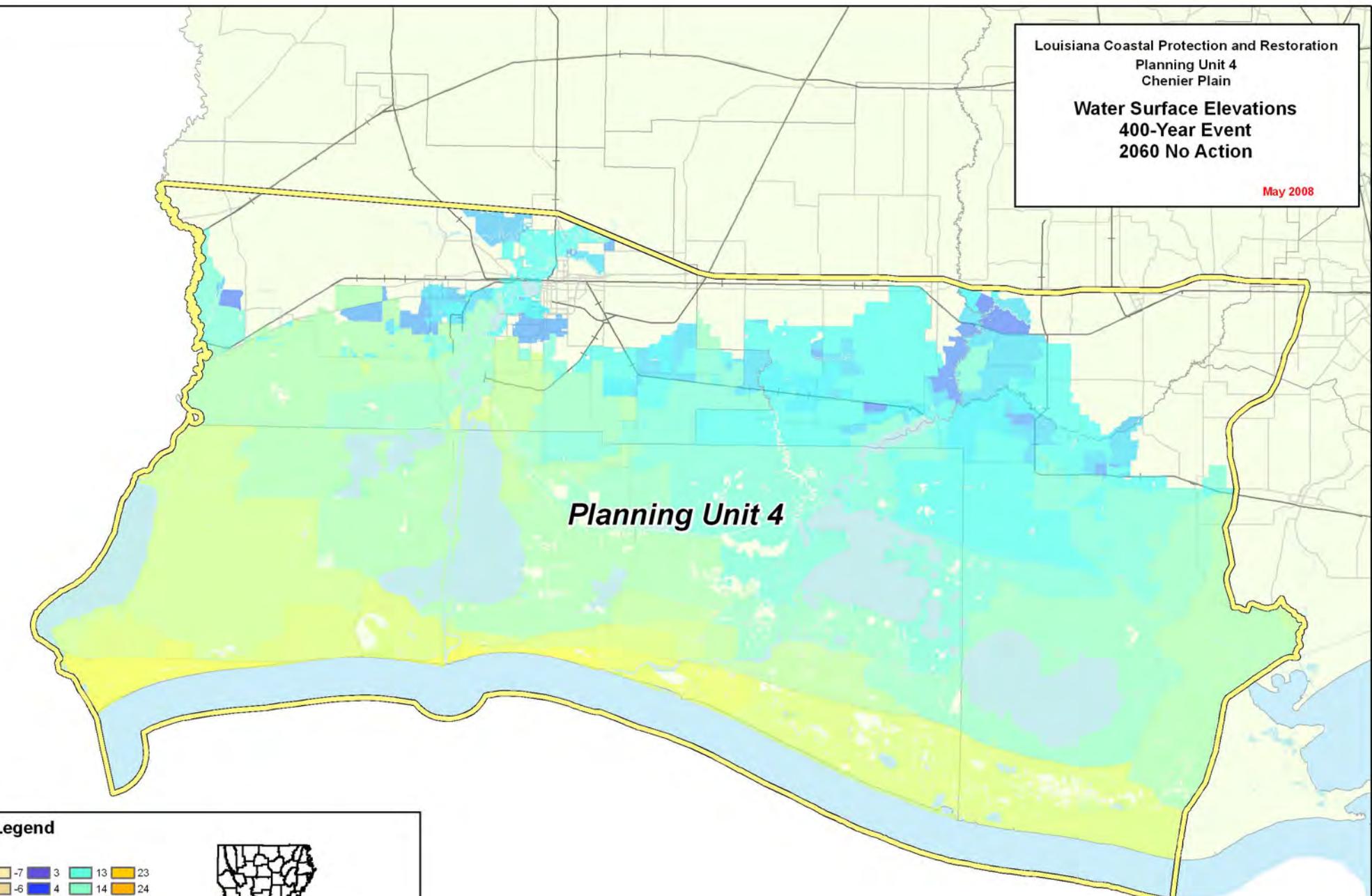
Note: Future "no-action" frequencies or event surfaces are based on ADCIRC simulated storm surge values for a projected "50-yr" future coast based on no additional coastal restoration. Statistical surfaces shown include the added effects of relative sea level rise, i.e. eustatic plus local subsidence.

Louisiana Coastal Protection and Restoration

Planning Unit 4
Chenier Plain

**Water Surface Elevations
400-Year Event
2060 No Action**

May 2008



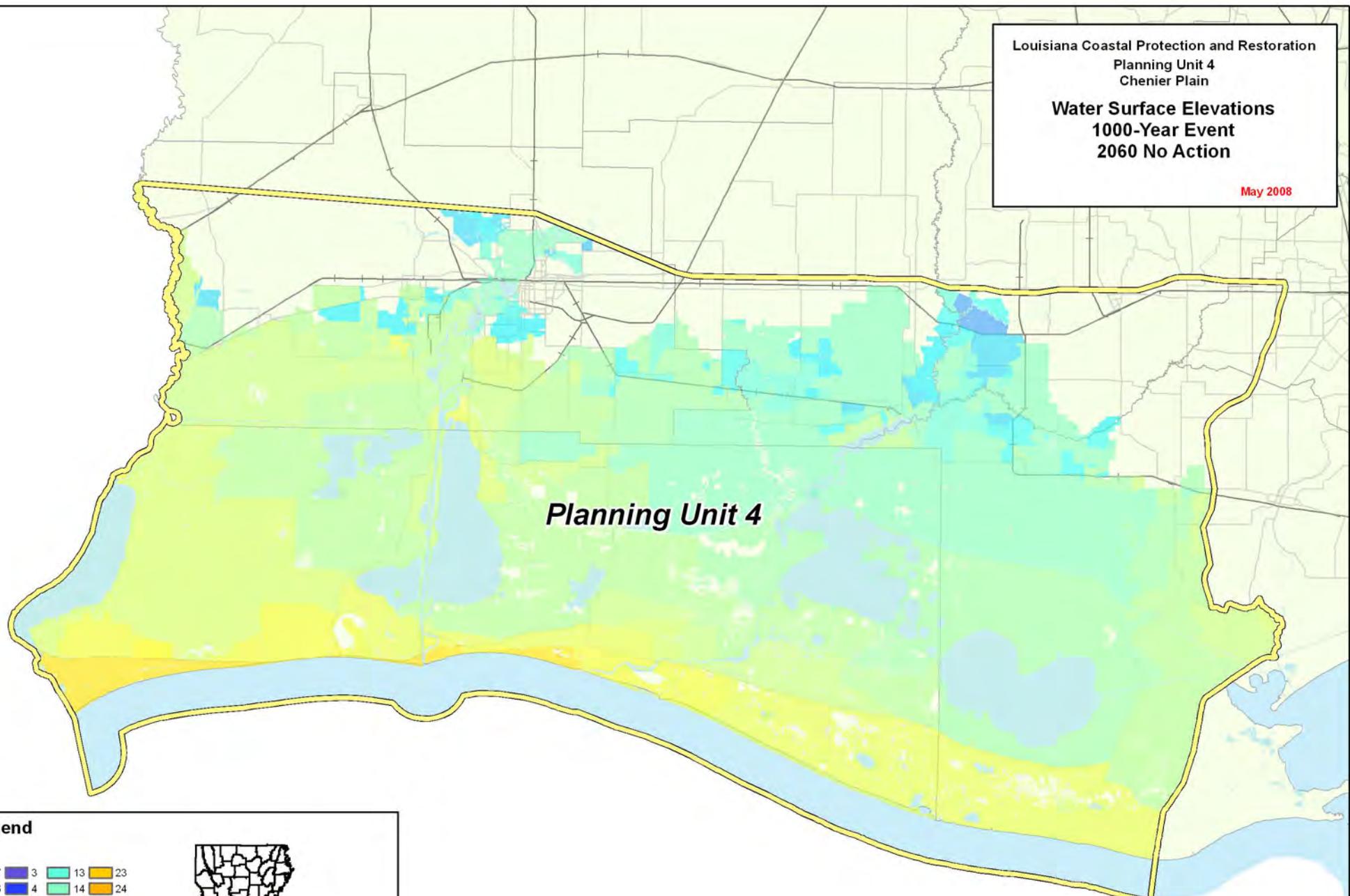
Note: Future "no-action" frequencies or event surfaces are based on ADCIRC simulated storm surge values for a projected "50-yr" future coast based on no additional coastal restoration. Statistical surfaces shown include the added effects of relative sea level rise, i.e. eustatic plus local subsidence.

Louisiana Coastal Protection and Restoration

Planning Unit 4
Chenier Plain

**Water Surface Elevations
1000-Year Event
2060 No Action**

May 2008



Legend

-7	3	13	23
-6	4	14	24
-5	5	15	25
-4	6	16	26
-3	7	17	27
-2	8	18	28
-1	9	19	29
0	10	20	30
1	11	21	LACPR Planning Units
2	12	22	



4 2 0 4 8 12 16 Miles

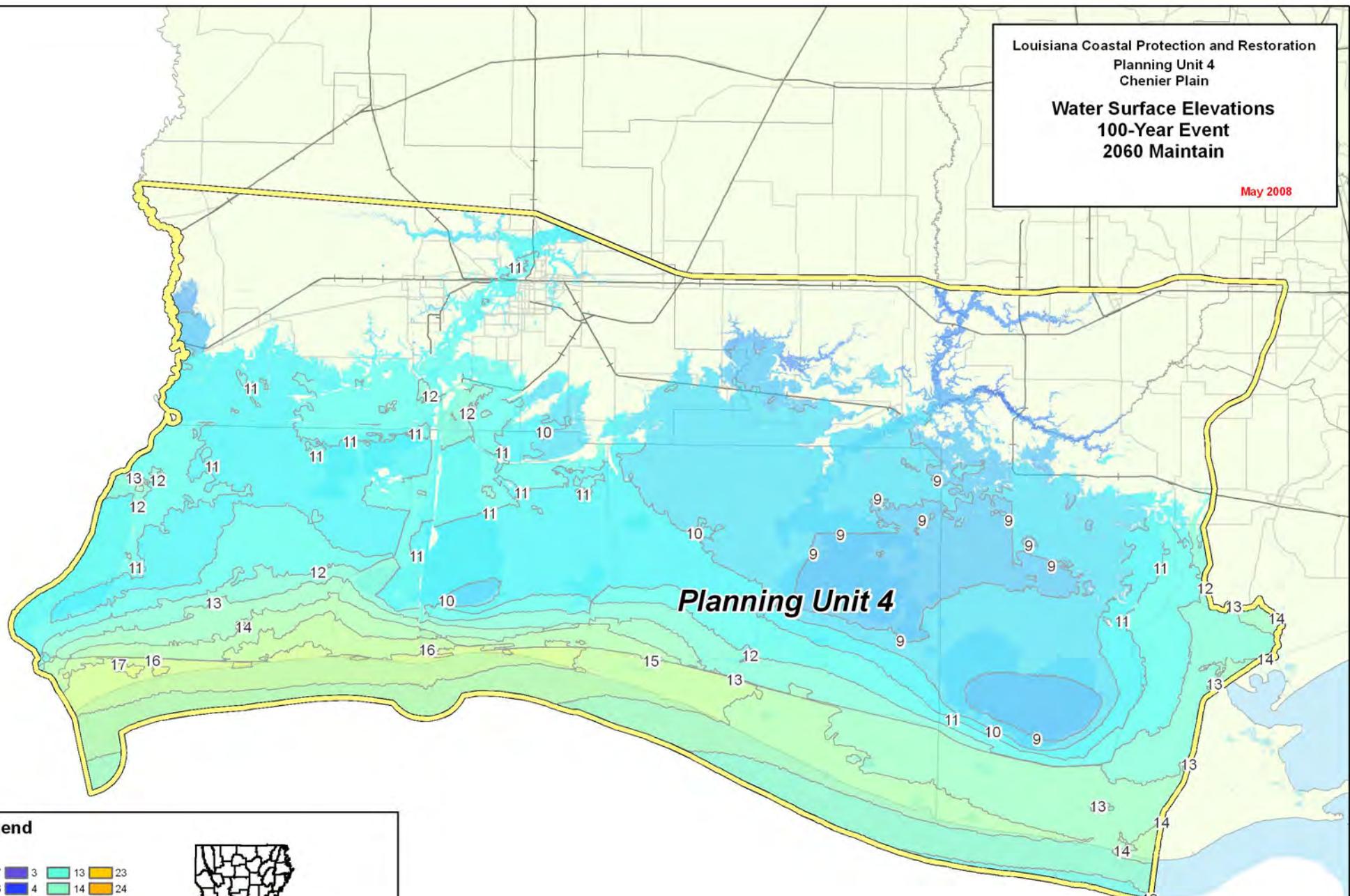
Note: Future "no-action" frequencies or event surfaces are based on ADCIRC simulated storm surge values for a projected "50-yr" future coast based on no additional coastal restoration. Statistical surfaces shown include the added effects of relative sea level rise, i.e. eustatic plus local subsidence.

Louisiana Coastal Protection and Restoration

Planning Unit 4
Chenier Plain

**Water Surface Elevations
100-Year Event
2060 Maintain**

May 2008



Legend

-7	3	13	23
-6	4	14	24
-5	5	15	25
-4	6	16	26
-3	7	17	27
-2	8	18	28
-1	9	19	29
0	10	20	30
1	11	21	LACP Planning Units
2	12	22	



4 2 0 4 8 12 16 Miles

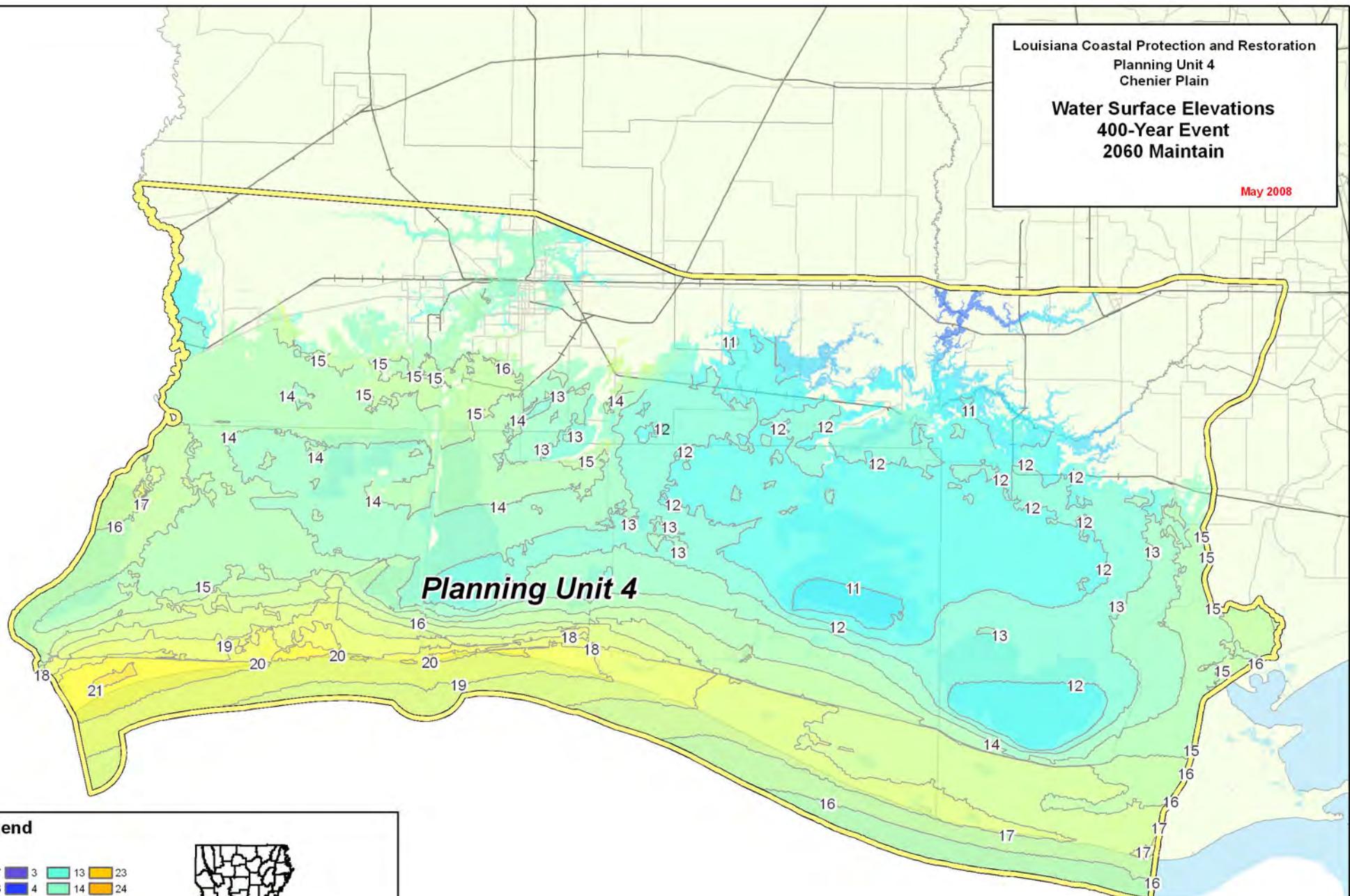
Note: Future "maintain coast" frequencies or event surfaces are based on ADCIRC simulated storm surge values for the base coastline. Statistical surfaces shown include the added effects of relative sea level rise, i.e. eustatic plus local subsidence.

Louisiana Coastal Protection and Restoration

Planning Unit 4
Chenier Plain

**Water Surface Elevations
400-Year Event
2060 Maintain**

May 2008



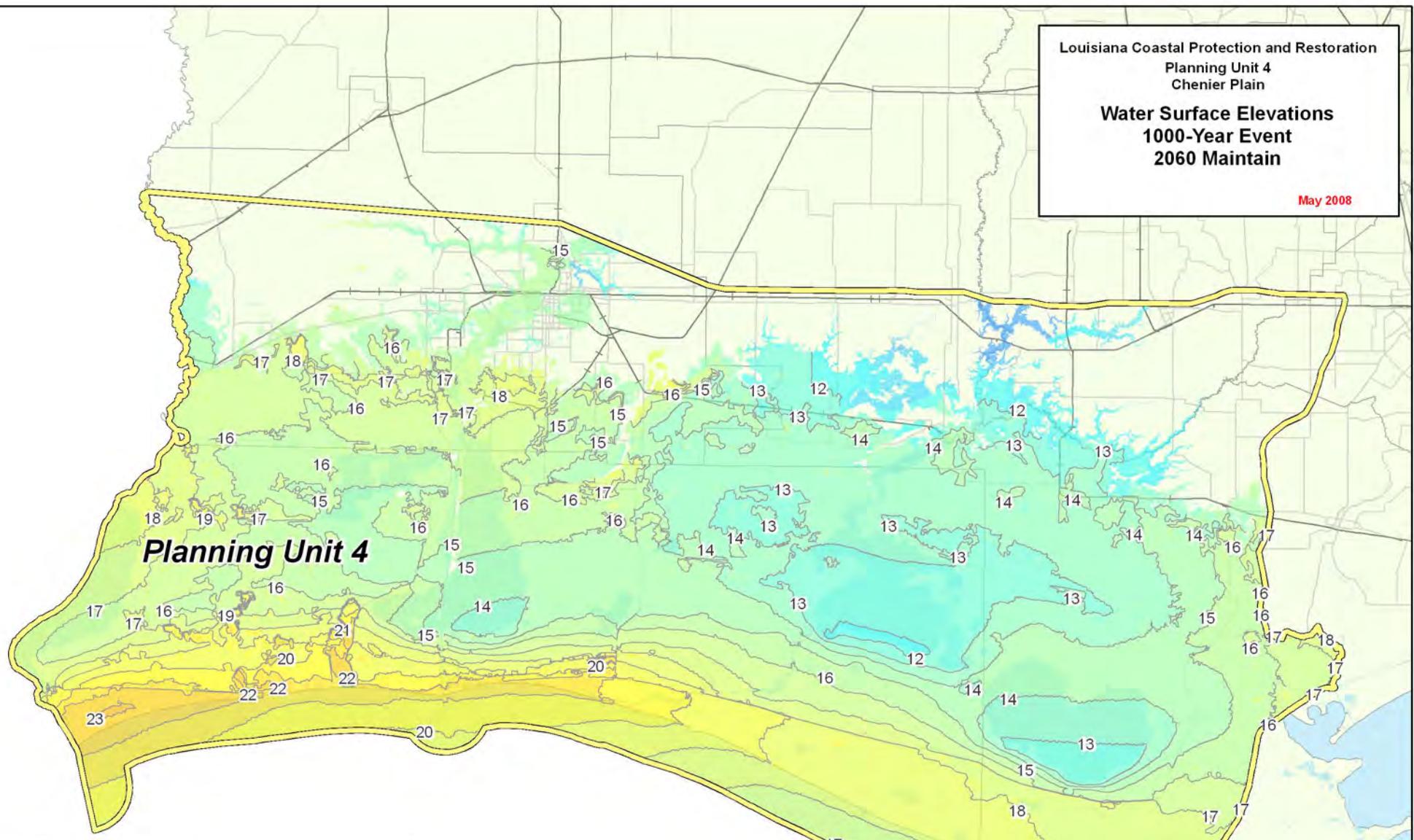
Legend

-7	3	13	23
-6	4	14	24
-5	5	15	25
-4	6	16	26
-3	7	17	27
-2	8	18	28
-1	9	19	29
0	10	20	30
1	11	21	21 LACP/R Planning Units
2	12	22	



4 2 0 4 8 12 16 Miles

Note: Future "maintain coast" frequencies or event surfaces are based on ADCIRC simulated storm surge values for the base coastline. Statistical surfaces shown include the added effects of relative sea level rise, i.e. eustatic plus local subsidence.

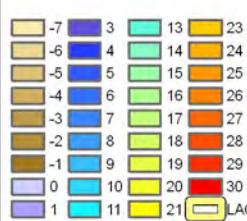


Louisiana Coastal Protection and Restoration

**Planning Unit 4
Chenier Plain**

May 2008

Legend



Log Units

Note: Future "maintain coast" frequencies or event surfaces are based on ADCIRC simulated storm surge values for the base coastline. Statistical surfaces shown include the added effects of relative sea level rise, i.e. eustatic plus local subsidence.

Planning Unit:	4	Alt. No.:	PU4-0	Category:	No Action
Alternative Description:			No action (without project) alternative.		
Coastal Component:	Degraded coast-increasing risk.		Nonstructural Component:		None
Structural Component:		No new levees or increases in risk reduction level for existing levees.			

Scenario	Future Conditions (Relative Sea Level Rise (RSLR) and Redevelopment Assumptions)	Uncertainty	Results by Scenario with Uncertainty Bands								
			Life Cycle Cost	Population Impacted	Residual Damages	Gross Regional Output Impacted	Employment Impacted	People's Earned Income Impacted	Archeo. Sites Protected	Historic Properties Protected	Historic Districts Protected
			Ann. Equiv. \$ Millions	Ann. Equiv. #	Ann. Equiv. \$ Millions	Ann. Equiv. \$ Millions	Ann. Equiv. #	Ann. Equiv. \$ Millions	# Sites	# Properties	# Districts
1	Low RSLR High Employment Dispersed Population	High	0	2,630	217	255	690	46	37	1	0
		Mid		3,791	283	290	792	52	33	0	0
		Low		4,752	373	365	996	67	29	0	0
2	High RSLR High Employment Dispersed Population	High	0	3,000	238	274	719	49	37	1	0
		Mid		4,046	318	375	926	65	33	0	0
		Low		5,278	417	465	1,080	76	29	0	0
3	Low RSLR Business-as-Usual Compact Population	High	0	2,551	224	272	722	49	37	1	0
		Mid		3,603	296	308	825	55	33	0	0
		Low		4,432	397	377	1,027	69	29	0	0
4	High RSLR Business-as-Usual Compact Population	High	0	2,866	248	305	770	54	37	1	0
		Mid		3,851	339	388	961	69	33	0	0
		Low		4,862	463	462	1,104	78	29	0	0

Other Results			Wetlands Created/Protected		Scenario 1	Scenario 2	Scenario 3	Scenario 4
Construction Time (years)			After 50 yrs (% of baseline)		96	95	96	95
Direct Wetland Impacts (acres)			After 100 yrs (% of baseline)		92	87	92	87
Indirect Impacts (unitless)			Present Value of Life Cycle Costs (\$ Millions)					
Spatial Integrity (unitless)			Coastal Component		0	0	0	0
Non-Federal Share of Present Value of Life Cycle Costs	Scenario	(\$ Millions)	Nonstructural Component		0	0	0	0
	1 / 2	0	Structural Component		0	0	0	0
	3 / 4	0	Total Project		0	0	0	0

2075 Residual Risk / Damages - Low Uncertainty (\$ Millions)								Planning Unit 4 No Action Plan	
Frequency	Scenario 1		Scenario 2		Scenario 3		Scenario 4		
	No Action	With Proj							
10-year	472	N/A	725	N/A	511	N/A	794	N/A	
100-year	3,034	N/A	4,142	N/A	3,315	N/A	5,183	N/A	
400-year	6,592	N/A	7,874	N/A	8,001	N/A	9,283	N/A	
1,000-year	10,316	N/A	11,581	N/A	11,241	N/A	12,313	N/A	
2,000-year	12,755	N/A	13,904	N/A	13,422	N/A	14,373	N/A	

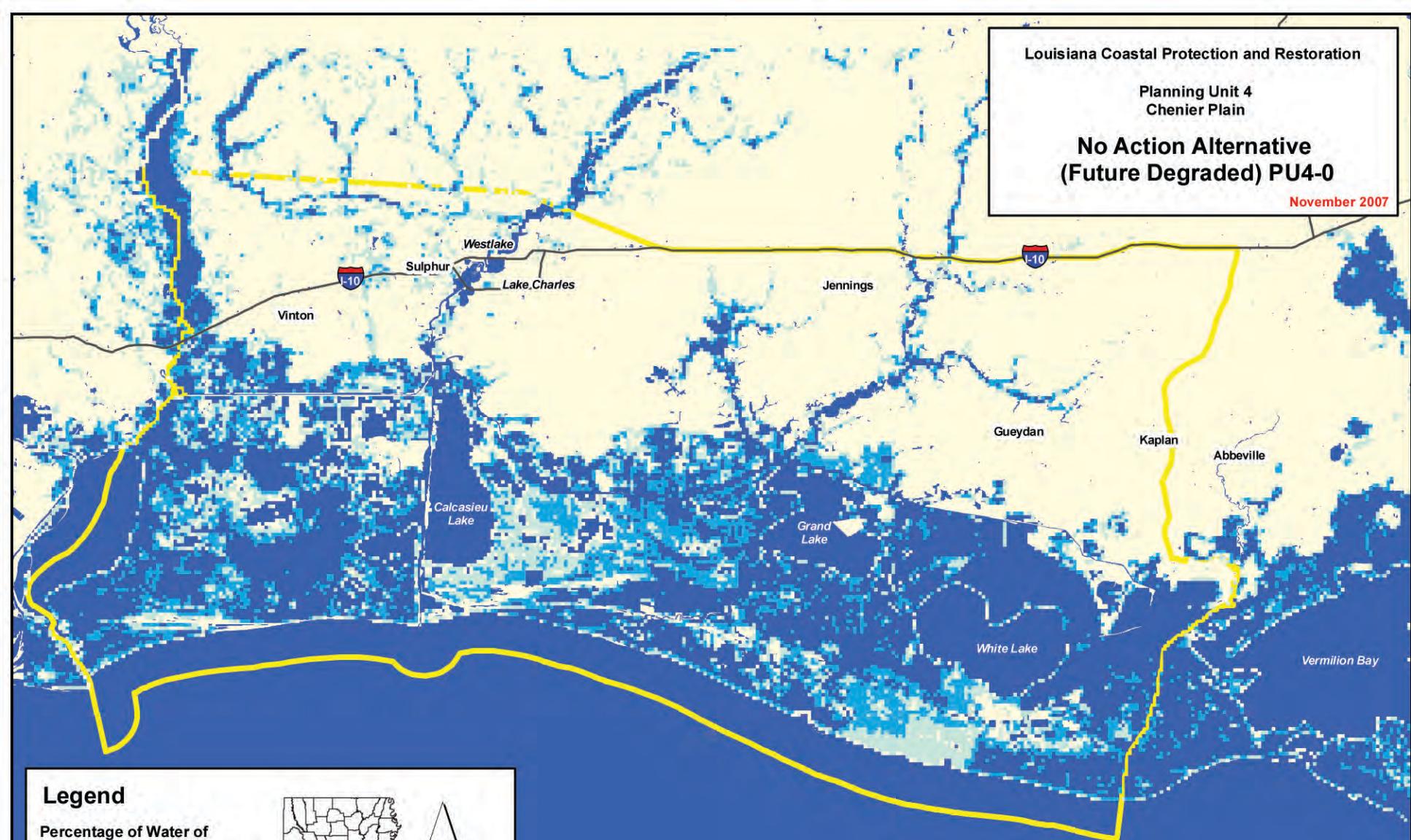
Note: Present Value costs and Annual Equivalent numbers are calculated for the period from 2010 to 2075 at common base year 2025 using a 4.7/8% Federal discount rate. All dollar metrics are based on 2007 price levels.

Louisiana Coastal Protection and Restoration

Planning Unit 4
Chenier Plain

No Action Alternative
(Future Degraded) PU4-0

November 2007



Legend

Percentage of Water of
500 meter cell

- 0 - 25%
- 25 - 50%
- 50 - 75%
- 75 - 100%

Primary Roads

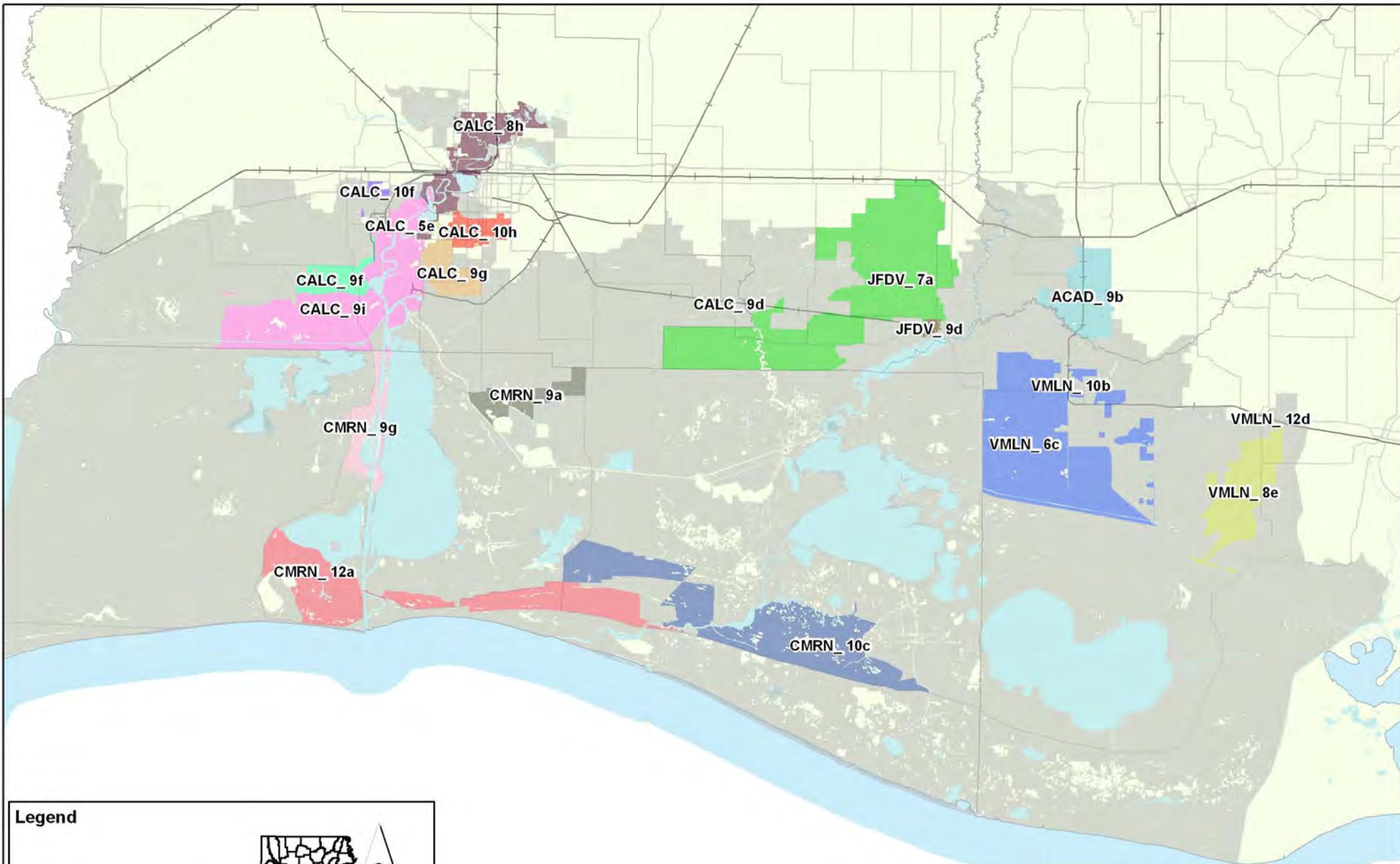
Planning Unit Boundary



Miles

4	2	0	4	8	12	16	20
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Data Source: Costal Louisiana
Ecosystem Assessment and
Restoration (CLEAR)



Louisiana Coastal Protection and Restoration
Planning Unit 4
Chenier Plain
**No Action Alternative
(Future Degraded)
PU4 - 0**
Planning Subunits - Key Map
June 2008

Alternative: PU4-0
Water Surface Elevations (feet - NAVD88 2004.65)

Planning Sub Unit	2010 (Base) Conditions						2060 (Future) Conditions					
	100-yr Event		400-year Event		1,000-yr Event		100-yr Event		400-year Event		1,000-yr Event	
	Without Project	With Project	Without Project	With Project	Without Project	With Project	Without Project	With Project	Without Project	With Project	Without Project	With Project
ACAD_9b	7.8		9.4		12.2		10.4		12.0		14.8	
CALC_10f	6.0		8.1		9.7		8.6		10.7		12.3	
CALC_10h	5.5		6.1		9.1		8.1		8.7		11.7	
CALC_5e	7.8		8.5		12.1		10.4		11.1		14.7	
CALC_8h	7.8		10.7		12.8		10.4		13.3		15.4	
CALC_9d	7.8		9.7		13.6		10.4		12.3		16.2	
CALC_9f	8.8		13.6		16.0		11.4		16.2		18.6	
CALC_9g	10.9		14.6		17.1		13.5		17.2		19.7	
CALC_9i	8.4		12.8		15.3		11.0		15.4		17.9	
CMRN_10c	11.1		14.8		16.8		13.8		17.1		18.8	
CMRN_12a	13.0		16.9		19.0		15.3		18.9		20.7	
CMRN_9a	9.5		14.1		16.3		12.1		16.7		18.9	
CMRN_9g	9.6		13.1		15.2		12.7		16.4		18.6	
JFDV_7a	7.5		11.9		14.7		10.1		14.5		17.3	
JFDV_9d	6.4		11.1		13.5		9.0		13.7		16.1	
VMLN_10b	7.8		11.2		13.5		10.4		13.8		16.1	
VMLN_12d	7.8		11.1		14.3		10.4		13.7		16.9	
VMLN_6c	7.8		10.7		12.7		10.4		13.3		15.3	
VMLN_8e	8.6		12.1		14.2		11.2		14.7		16.8	
Evaluation Parameters	Confidence Level:			90%		Levee Design:			No Friction Waves			
	Future Relative Sea Level Rise:			2.6 feet		Levee Overtopping:			No Friction Waves			

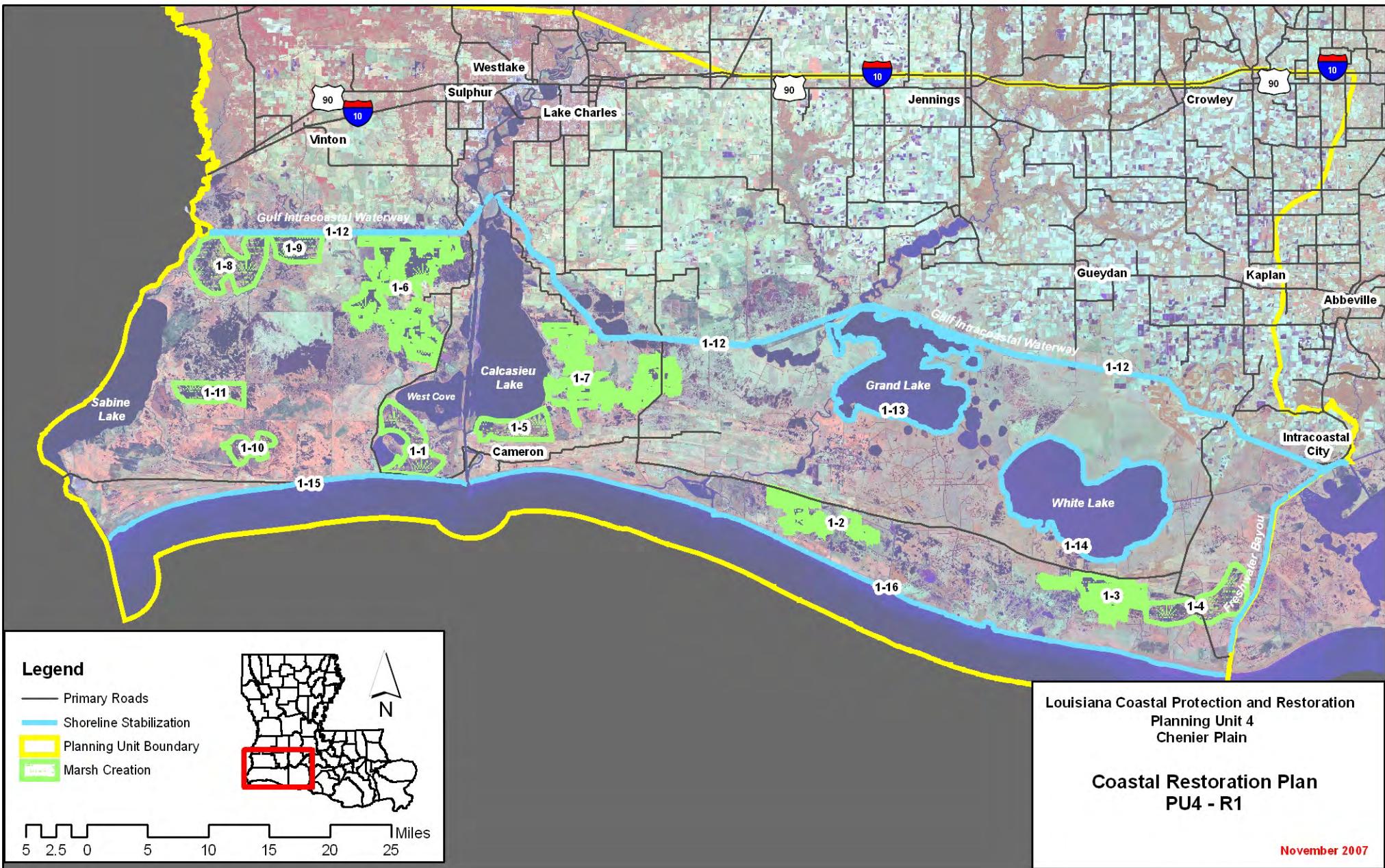
Planning Unit:	4	Alt. No.:	PU4-R1	Category:	Coastal Restoration Only
Alternative Description:	Sustain coastal landscape through restoration including shoreline protection, marsh creation, etc.				
Coastal Component:	R1	Nonstructural Component:		None	
Structural Component:	No new levees or increases in risk reduction level for existing levees.				

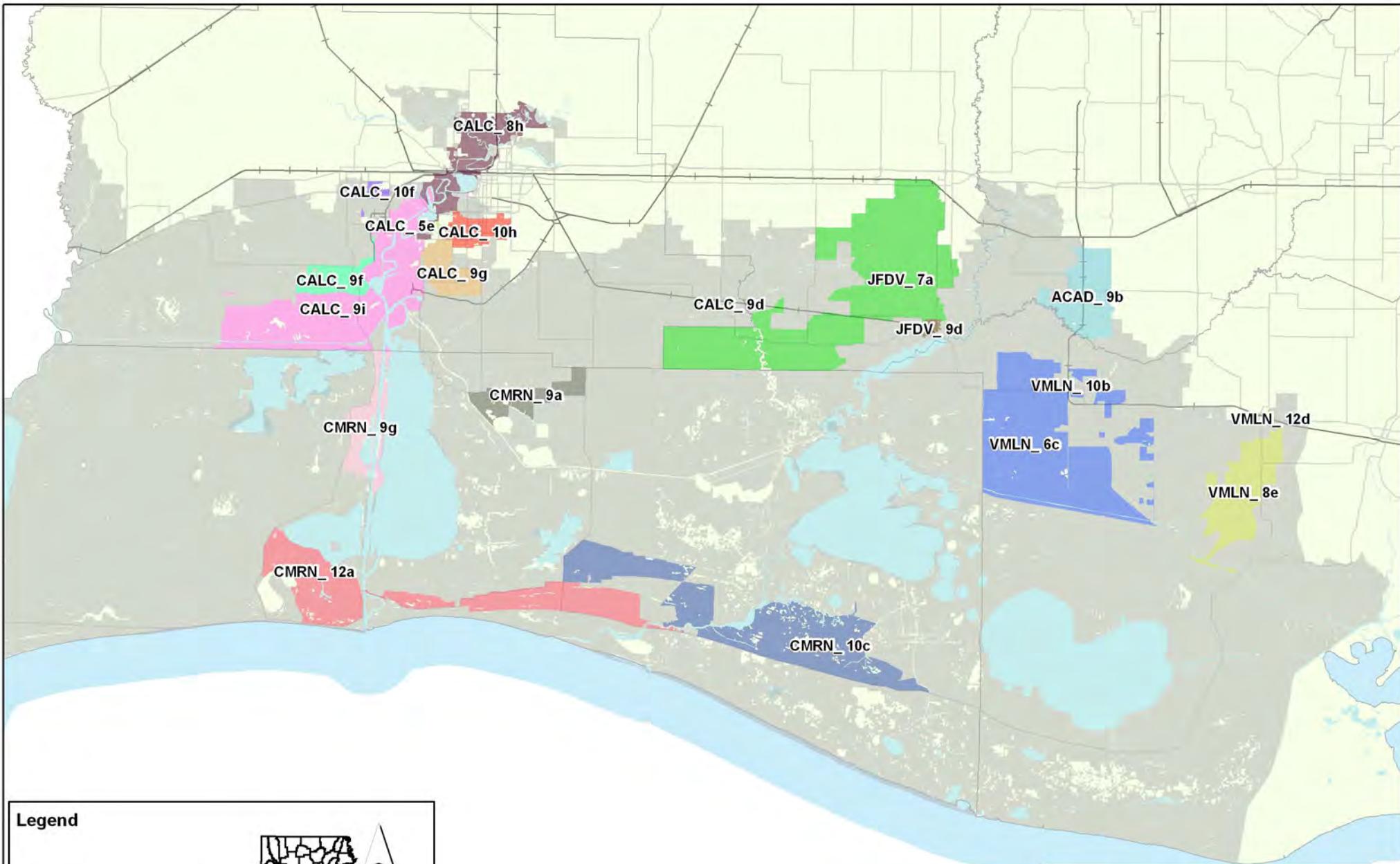
Scenario	Future Conditions (Relative Sea Level Rise (RSLR) and Redevelopment Assumptions)	Uncertainty	Results by Scenario with Uncertainty Bands								
			Life Cycle Cost	Population Impacted	Residual Damages	Gross Regional Output Impacted	Employment Impacted	People's Earned Income Impacted	Archeo. Sites Protected	Historic Properties Protected	Historic Districts Protected
			Ann. Equiv. \$ Millions	Ann. Equiv. #	Ann. Equiv. \$ Millions	Ann. Equiv. \$ Millions	Ann. Equiv. #	Ann. Equiv. \$ Millions	# Sites	# Properties	# Districts
1	Low RSLR High Employment Dispersed Population	High	551	2,625	217	258	692	47	107	3	0
		Mid		3,790	283	289	791	52	83	3	0
		Low		4,753	373	365	996	67	58	2	0
2	High RSLR High Employment Dispersed Population	High	566	3,003	238	284	729	51	107	3	0
		Mid		4,039	318	375	926	65	83	2	0
		Low		5,279	416	465	1,080	76	58	1	0
3	Low RSLR Business-as-Usual Compact Population	High	551	2,545	224	277	729	50	107	3	0
		Mid		3,600	296	309	825	55	83	3	0
		Low		4,432	393	377	1,027	69	58	2	0
4	High RSLR Business-as-Usual Compact Population	High	566	2,870	248	313	782	56	107	3	0
		Mid		3,850	334	388	962	69	83	2	0
		Low		4,863	465	462	1,105	78	58	1	0

Other Results			Wetlands Created/Protected		Scenario 1	Scenario 2	Scenario 3	Scenario 4
Construction Time (years)			15		After 50 yrs (% of baseline)	103	101	103
Direct Wetland Impacts (acres)			0		After 100 yrs (% of baseline)	106	100	106
Indirect Impacts (unitless)			0		Present Value of Life Cycle Costs (\$ Millions)			
Spatial Integrity (unitless)			0.44		Coastal Component	10,783	11,077	10,783
Non-Federal Share of Present Value of Life Cycle Costs	Scenario	(\$ Millions)		Nonstructural Component		0	0	0
	1 / 2	3,774	3,877	Structural Component		0	0	0
	3 / 4	3,774	3,877	Total Project		10,783	11,077	10,783

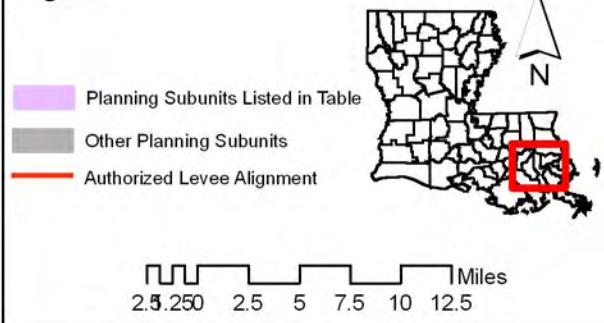
2075 Residual Risk / Damages - Low Uncertainty (\$ Millions)								Planning Unit 4 Coastal Plan Coastal Restoration Alt	
Frequency	Scenario 1		Scenario 2		Scenario 3		Scenario 4		
	No Action	With Proj							
	10-year	472	472	725	726	511	511	794	795
100-year	3,034	3,023	4,142	4,125	3,315	3,206	5,183	5,224	
400-year	6,592	6,577	7,874	7,869	8,001	7,967	9,283	9,263	
1,000-year	10,316	10,304	11,581	11,560	11,241	11,229	12,313	12,299	
2,000-year	12,755	12,731	13,904	13,898	13,422	13,395	14,373	14,387	

Note: Present Value costs and Annual Equivalent numbers are calculated for the period from 2010 to 2075 at common base year 2025 using a 4.7/8% Federal discount rate. All dollar metrics are based on 2007 price levels.





Legend



Louisiana Coastal Protection and Restoration
Planning Unit 4
Chenier Plain
Coastal Restoration Plan
Future Maintian
PU4 - R
Planning Subunits - Key Map

June 2008

20

Alternative: PU4-R1
Water Surface Elevations (feet - NAVD88 2004.65)

Planning Sub Unit	2010 (Base) Conditions*						2060 (Future) Conditions					
	100-yr Event		400-year Event		1,000-yr Event		100-yr Event		400-year Event		1,000-yr Event	
	Without Project	With Project	Without Project	With Project	Without Project	With Project	Without Project	With Project	Without Project	With Project	Without Project	With Project
ACAD_9b	7.8	7.8	9.4	9.4	12.2	12.2	10.4	10.4	12.0	12.0	14.8	14.8
CALC_10f	6.0	6.0	8.1	8.1	9.7	9.7	8.6	8.6	10.7	10.7	12.3	12.3
CALC_10h	5.5	5.5	6.1	6.1	9.1	9.1	8.1	8.1	8.7	8.7	11.7	11.7
CALC_5e	7.8	7.8	8.5	8.5	12.1	12.1	10.4	10.4	11.1	11.1	14.7	14.7
CALC_8h	7.8	7.8	10.7	10.7	12.8	12.8	10.4	10.4	13.3	13.3	15.4	15.4
CALC_9d	7.8	7.8	9.7	9.7	13.6	13.6	10.4	10.4	12.3	12.3	16.2	16.2
CALC_9f	8.8	8.8	13.6	13.6	16.0	16.0	11.4	11.4	16.2	16.2	18.6	18.6
CALC_9g	10.9	10.9	14.6	14.6	17.1	17.1	13.5	13.5	17.2	17.2	19.7	19.7
CALC_9i	8.4	8.4	12.8	12.8	15.3	15.3	11.0	11.0	15.4	15.4	17.9	17.9
CMRN_10c	11.1	11.1	14.8	14.8	16.8	16.8	13.8	13.7	17.1	17.4	18.8	19.4
CMRN_12a	13.0	13.0	16.9	16.9	19.0	19.0	15.3	15.6	18.9	19.5	20.7	21.6
CMRN_9a	9.5	9.5	14.1	14.1	16.3	16.3	12.1	12.1	16.7	16.7	18.9	18.9
CMRN_9g	9.6	9.6	13.1	13.1	15.2	15.2	12.7	12.2	16.4	15.7	18.6	17.8
JFDV_7a	7.5	7.5	11.9	11.9	14.7	14.7	10.1	10.1	14.5	14.5	17.3	17.3
JFDV_9d	6.4	6.4	11.1	11.1	13.5	13.5	9.0	9.0	13.7	13.7	16.1	16.1
VMLN_10b	7.8	7.8	11.2	11.2	13.5	13.5	10.4	10.4	13.8	13.8	16.1	16.1
VMLN_12d	7.8	7.8	11.1	11.1	14.3	14.3	10.4	10.4	13.7	13.7	16.9	16.9
VMLN_6c	7.8	7.8	10.7	10.7	12.7	12.7	10.4	10.4	13.3	13.3	15.3	15.3
VMLN_8e	8.6	8.6	12.1	12.1	14.2	14.2	11.2	11.2	14.7	14.7	16.8	16.8
Evaluation Parameters	Confidence Level:			90%	Levee Design: Levee Overtopping:	No Friction Waves				No Friction Waves		
	Future Relative Sea Level Rise:			2.6 feet		No Friction Waves						

* With and without project base conditions (2010) are the same for coastal restoration only plans.

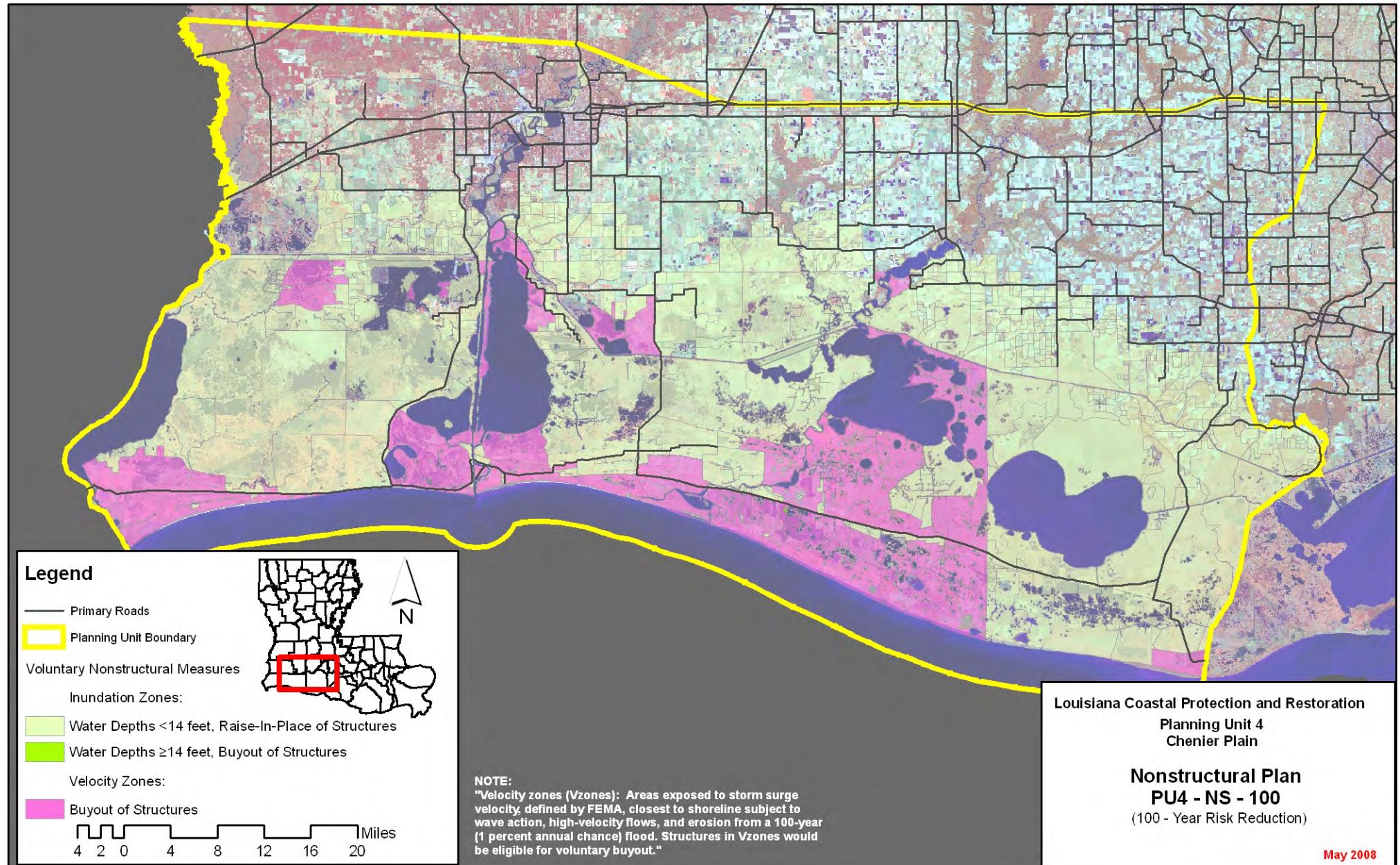
Planning Unit:	4	Alt. No.:	PU4-NS-100	Category:	Coastal Restoration + Nonstructural Measures
Alternative Description:	Sustain coastal landscape through restoration. Implement comprehensive 100-year nonstructural measures.				
Coastal Component:	R1	Nonstructural Component:		100-yr stand alone measures	
Structural Component:	No new levees or increases in risk reduction level for existing levees.				

Scenario	Future Conditions (Relative Sea Level Rise (RSLR) and Redevelopment Assumptions)	Uncertainty	Results by Scenario with Uncertainty Bands								
			Life Cycle Cost	Population Impacted	Residual Damages	Gross Regional Output Impacted	Employment Impacted	People's Earned Income Impacted	Archeo. Sites Protected	Historic Properties Protected	Historic Districts Protected
			Ann. Equiv. \$ Millions	Ann. Equiv. #	Ann. Equiv. \$ Millions	Ann. Equiv. \$ Millions	Ann. Equiv. #	Ann. Equiv. \$ Millions	# Sites	# Properties	# Districts
1	Low RSLR High Employment Dispersed Population	High	660	2,072	103	89	272	16	107	3	0
		Mid		3,138	143	111	349	19	83	3	0
		Low		4,106	206	166	505	30	58	2	0
2	High RSLR High Employment Dispersed Population	High	675	2,262	108	96	280	17	107	3	0
		Mid		3,260	157	157	429	27	83	2	0
		Low		4,374	229	208	535	33	58	1	0
3	Low RSLR Business-as-Usual Compact Population	High	660	1,938	103	84	263	15	107	3	0
		Mid		2,922	145	107	339	19	83	3	0
		Low		3,755	211	162	508	30	58	2	0
4	High RSLR Business-as-Usual Compact Population	High	675	2,099	108	93	275	16	107	3	0
		Mid		3,044	159	149	426	27	83	2	0
		Low		3,973	241	193	529	32	58	1	0

Other Results			Wetlands Created/Protected		Scenario 1	Scenario 2	Scenario 3	Scenario 4
Construction Time (years)			15		After 50 yrs (% of baseline)	103	101	103
Direct Wetland Impacts (acres)			0		After 100 yrs (% of baseline)	106	100	106
Indirect Impacts (unitless)			0		Present Value of Life Cycle Costs (\$ Millions)			
Spatial Integrity (unitless)			0.44		Coastal Component			
Non-Federal Share of Present Value of Life Cycle Costs	Scenario	(\$ Millions)		Nonstructural Component		10,783	11,077	10,783
	1 / 2	4,524		Structural Component		2,142	2,142	2,145
	3 / 4	4,525		Total Project		0	0	0

2075 Residual Risk / Damages - Low Uncertainty (\$ Millions)								Planning Unit 4 Nonstructural Plan 100-year Design	
Frequency	Scenario 1		Scenario 2		Scenario 3		Scenario 4		
	No Action	With Proj							
	10-year	472	151	725	181	511	152	794	182
100-year	3,034	1,249	4,142	2,570	3,315	1,209	5,183	2,969	
400-year	6,592	5,340	7,874	6,737	8,001	5,530	9,283	6,818	
1,000-year	10,316	9,206	11,581	10,545	11,241	8,784	12,313	9,869	
2,000-year	12,755	11,720	13,904	12,999	13,422	10,972	14,373	11,978	

Note: Present Value costs and Annual Equivalent numbers are calculated for the period from 2010 to 2075 at common base year 2025 using a 4.7%/8% Federal discount rate. All dollar metrics are based on 2007 price levels.



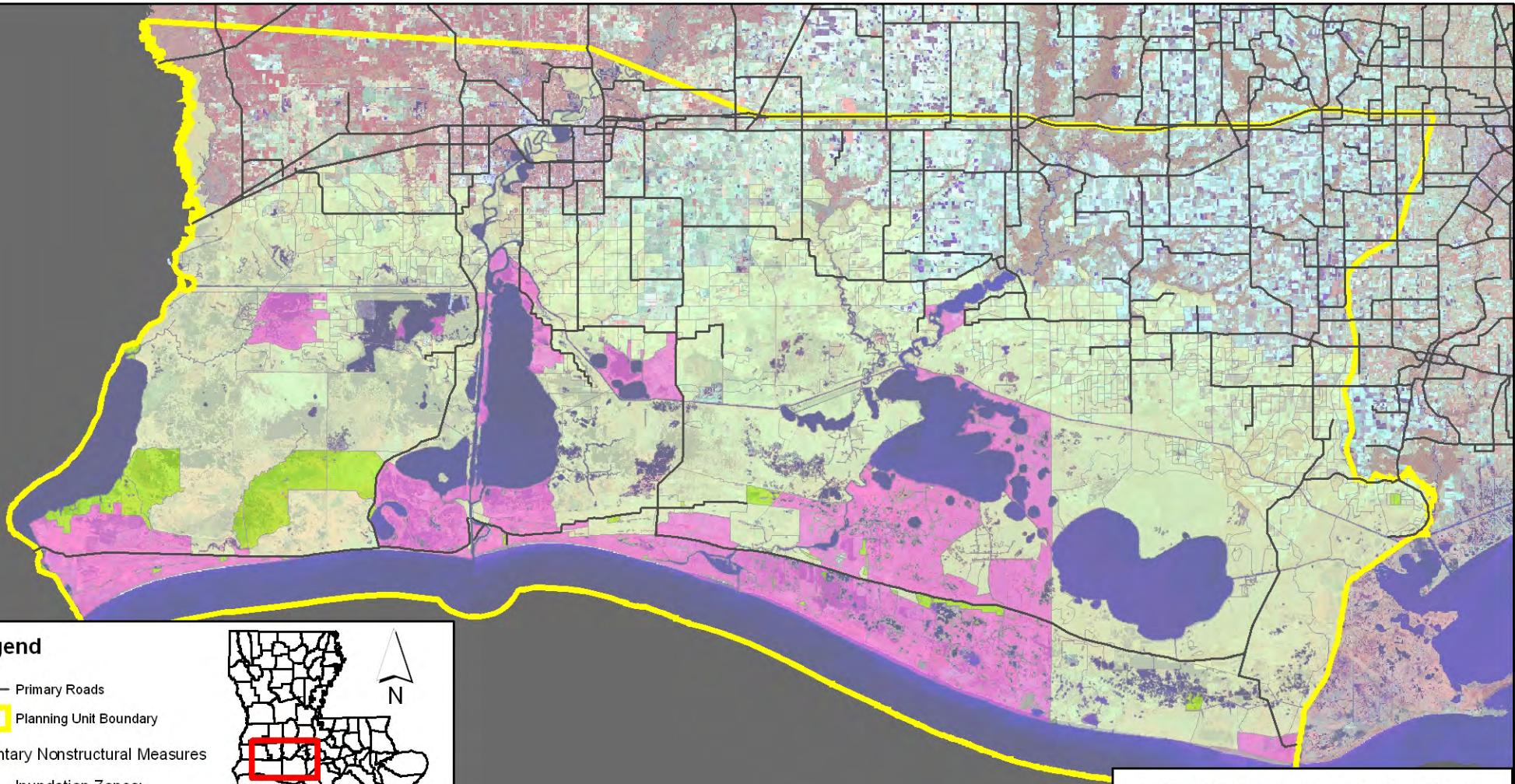
Planning Unit:	4	Alt. No.:	PU4-NS-400	Category:	Coastal Restoration + Nonstructural Measures
Alternative Description:	Sustain coastal landscape through restoration. Implement comprehensive 400-year nonstructural measures.				
Coastal Component:	R1	Nonstructural Component:		400-yr stand alone measures	
Structural Component:	No new levees or increases in risk reduction level for existing levees.				

Scenario	Future Conditions (Relative Sea Level Rise (RSLR) and Redevelopment Assumptions)	Uncertainty	Results by Scenario with Uncertainty Bands								
			Life Cycle Cost	Population Impacted	Residual Damages	Gross Regional Output Impacted	Employment Impacted	People's Earned Income Impacted	Archeo. Sites Protected	Historic Properties Protected	Historic Districts Protected
			Ann. Equiv. \$ Millions	Ann. Equiv. #	Ann. Equiv. \$ Millions	Ann. Equiv. \$ Millions	Ann. Equiv. #	Ann. Equiv. \$ Millions	# Sites	# Properties	# Districts
1	Low RSLR High Employment Dispersed Population	High	727	1,990	97	68	234	12	107	3	0
		Mid		3,056	127	81	282	14	83	3	0
		Low		4,024	169	105	369	19	58	2	0
2	High RSLR High Employment Dispersed Population	High	742	2,180	99	70	237	12	107	3	0
		Mid		3,178	131	92	295	15	83	2	0
		Low		4,292	176	107	376	19	58	1	0
3	Low RSLR Business-as-Usual Compact Population	High	723	1,861	98	64	227	11	107	3	0
		Mid		2,845	129	76	270	13	83	3	0
		Low		3,678	173	98	357	18	58	2	0
4	High RSLR Business-as-Usual Compact Population	High	739	2,022	99	66	229	12	107	3	0
		Mid		2,967	132	85	281	14	83	2	0
		Low		3,896	180	99	363	18	58	1	0

Other Results			Wetlands Created/Protected		Scenario 1	Scenario 2	Scenario 3	Scenario 4
Construction Time (years)			After 50 yrs (% of baseline)		103	101	103	101
Direct Wetland Impacts (acres)			After 100 yrs (% of baseline)		106	100	106	100
Indirect Impacts (unitless)			Present Value of Life Cycle Costs (\$ Millions)					
Spatial Integrity (unitless)			Coastal Component		10,783	11,077	10,783	11,077
Non-Federal Share of Present Value of Life Cycle Costs	Scenario	(\$ Millions)	Nonstructural Component		3,455	3,455	3,392	3,392
	1 / 2	4,983	5,086	Structural Component		0	0	0
	3 / 4	4,961	5,064	Total Project		14,238	14,532	14,176
2075 Residual Risk / Damages - Low Uncertainty (\$ Millions)								Planning Unit 4 Nonstructural Plan 400-year Design

Frequency	Scenario 1		Scenario 2		Scenario 3		Scenario 4		Planning Unit 4 Nonstructural Plan 400-year Design
	No Action	With Proj							
10-year	472	142	725	165	511	144	794	166	
100-year	3,034	504	4,142	682	3,315	507	5,183	668	
400-year	6,592	2,214	7,874	4,520	8,001	1,973	9,283	4,524	
1,000-year	10,316	7,707	11,581	9,629	11,241	7,162	12,313	8,855	
2,000-year	12,755	10,905	13,904	12,344	13,422	10,061	14,373	11,202	

Note: Present Value costs and Annual Equivalent numbers are calculated for the period from 2010 to 2075 at common base year 2025 using a 4.7%/8% Federal discount rate. All dollar metrics are based on 2007 price levels.



Louisiana Coastal Protection and Restoration
Planning Unit 4
Chenier Plain

Nonstructural Plan
PU4 - NS - 400
(400 - Year Risk Reduction)

May 2008

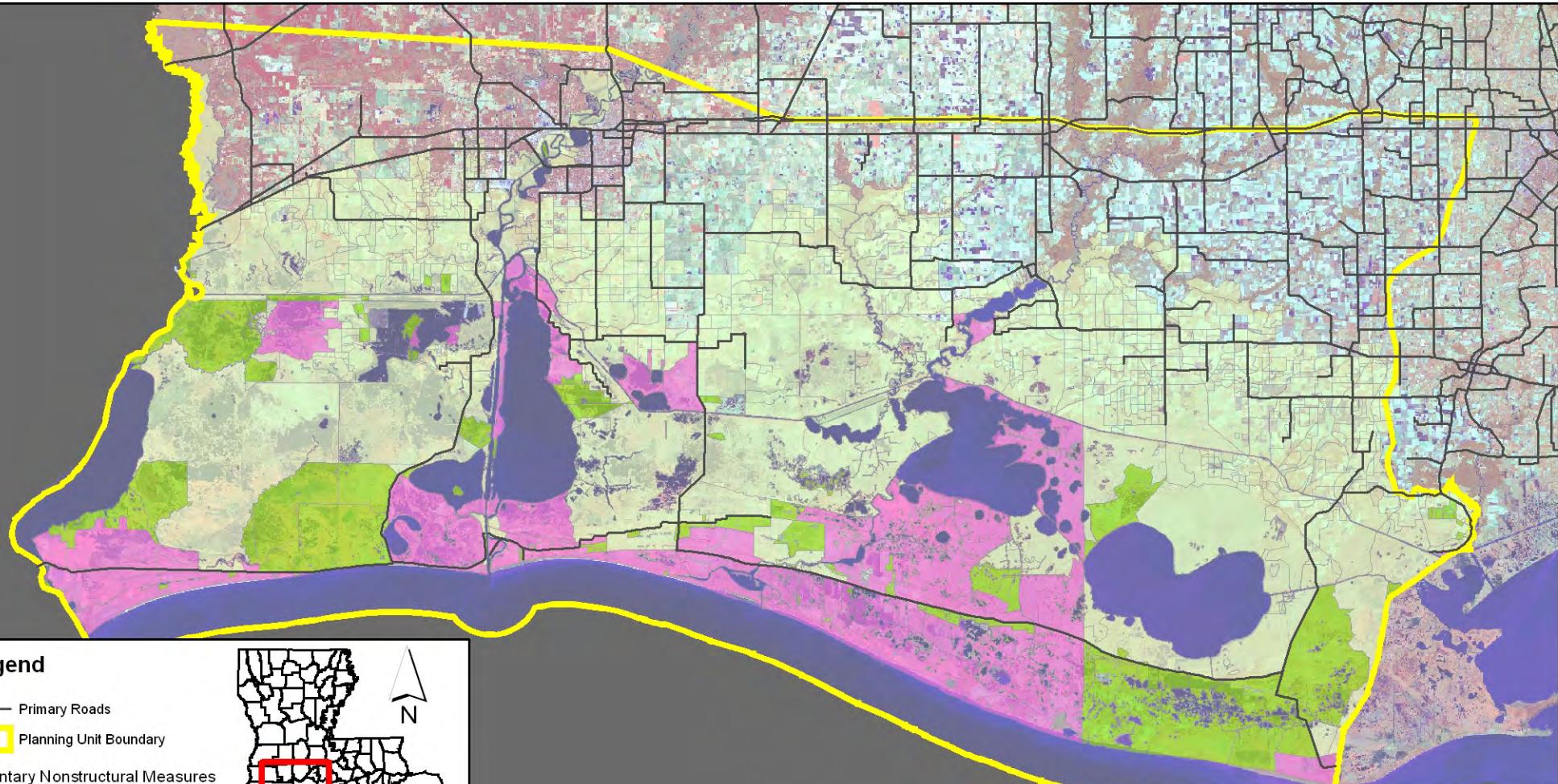
Planning Unit:	4	Alt. No.:	PU4-NS-1000	Category:	Coastal Restoration + Nonstructural Measures
Alternative Description:	Sustain coastal landscape through restoration. Implement comprehensive 1000-year nonstructural measures.				
Coastal Component:	R1	Nonstructural Component:		1000-yr stand alone measures	
Structural Component:	No new levees or increases in risk reduction level for existing levees.				

Scenario	Future Conditions (Relative Sea Level Rise (RSLR) and Redevelopment Assumptions)	Uncertainty	Results by Scenario with Uncertainty Bands								
			Life Cycle Cost	Population Impacted	Residual Damages	Gross Regional Output Impacted	Employment Impacted	People's Earned Income Impacted	Archeo. Sites Protected	Historic Properties Protected	Historic Districts Protected
			Ann. Equiv. \$ Millions	Ann. Equiv. #	Ann. Equiv. \$ Millions	Ann. Equiv. \$ Millions	Ann. Equiv. #	Ann. Equiv. \$ Millions	# Sites	# Properties	# Districts
1	Low RSLR High Employment Dispersed Population	High	796	1,876	93	67	232	12	107	3	0
		Mid		2,942	122	74	266	13	83	3	0
		Low		3,911	156	86	321	16	58	2	0
2	High RSLR High Employment Dispersed Population	High	811	2,066	95	68	233	12	107	3	0
		Mid		3,063	123	77	271	13	83	2	0
		Low		4,178	160	90	331	16	58	1	0
3	Low RSLR Business-as-Usual Compact Population	High	803	1,741	94	63	225	11	107	3	0
		Mid		2,725	123	70	256	12	83	3	0
		Low		3,558	160	81	312	15	58	2	0
4	High RSLR Business-as-Usual Compact Population	High	818	1,902	95	64	226	11	107	3	0
		Mid		2,846	125	72	261	13	83	2	0
		Low		3,776	163	85	320	15	58	1	0

Other Results			Wetlands Created/Protected		Scenario 1	Scenario 2	Scenario 3	Scenario 4
Construction Time (years)			After 50 yrs (% of baseline)		103	101	103	101
Direct Wetland Impacts (acres)			After 100 yrs (% of baseline)		106	100	106	100
Indirect Impacts (unitless)			Present Value of Life Cycle Costs (\$ Millions)					
Spatial Integrity (unitless)			Coastal Component		10,783	11,077	10,783	11,077
Non-Federal Share of Present Value of Life Cycle Costs	Scenario	(\$ Millions)	Nonstructural Component		4,807	4,807	4,955	4,955
	1 / 2	5,457	5,560	Structural Component		0	0	0
	3 / 4	5,508	5,611	Total Project		15,590	15,884	15,738
2075 Residual Risk / Damages - Low Uncertainty (\$ Millions)								Planning Unit 4

Frequency	Scenario 1		Scenario 2		Scenario 3		Scenario 4		Planning Unit 4 Nonstructural Plan 1000-year Design
	No Action	With Proj							
10-year	472	121	725	143	511	121	794	143	
100-year	3,034	458	4,142	557	3,315	454	5,183	550	
400-year	6,592	935	7,874	1,466	8,001	820	9,283	1,229	
1,000-year	10,316	3,146	11,581	6,250	11,241	2,561	12,313	5,665	
2,000-year	12,755	8,278	13,904	10,868	13,422	7,423	14,373	9,552	

Note: Present Value costs and Annual Equivalent numbers are calculated for the period from 2010 to 2075 at common base year 2025 using a 4.7/8% Federal discount rate. All dollar metrics are based on 2007 price levels.



Legend

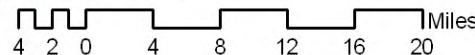
- Primary Roads
- Planning Unit Boundary

Voluntary Nonstructural Measures

- Inundation Zones:
- Water Depths <14 feet, Raise-In-Place of Structures
 - Water Depths ≥14 feet, Buyout of Structures

Velocity Zones:

- Buyout of Structures



NOTE:

"Velocity zones (Vzones): Areas exposed to storm surge velocity, defined by FEMA, closest to shoreline subject to wave action, high-velocity flows, and erosion from a 100-year (1 percent annual chance) flood. Structures in Vzones would be eligible for voluntary buyout."

Louisiana Coastal Protection and Restoration

Planning Unit 4
Chenier Plain

Nonstructural Plan
PU4 - NS - 1000
(1000 - Year Risk Reduction)

May 2008

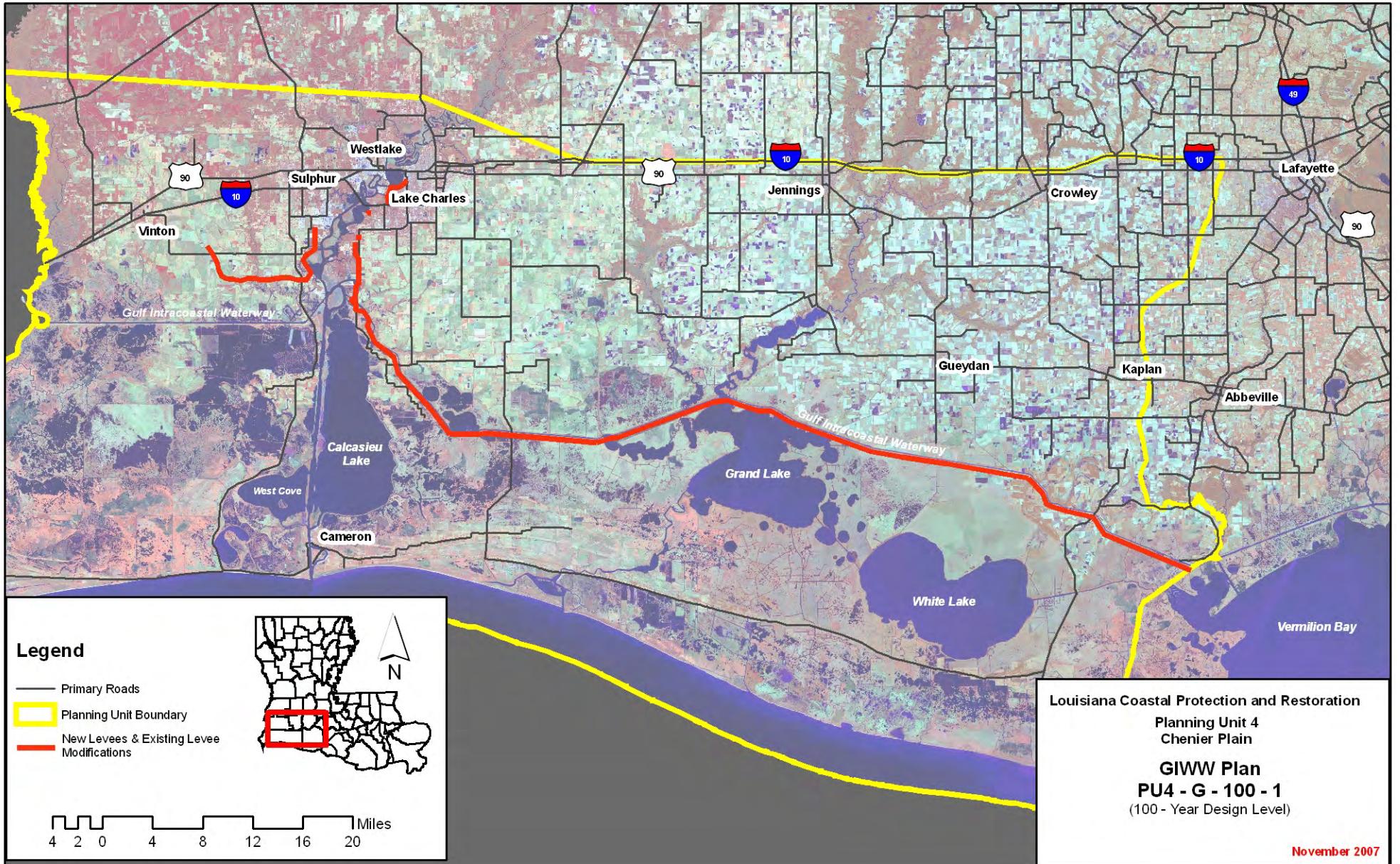
Planning Unit:	4	Alt. No.:	PU4-G-100-1	Category:	Coastal Restoration + Structural Measures
Alternative Description:	Sustain coastal landscape through restoration. Construct a continuous levee (with gates) along the GIWW plus a ring levee to the west of the Calcasieu River and a series of levees within Lake Charles to separate the river from the land at the 100-year de				
Coastal Component:	R1		Nonstructural Component:		None
Structural Component:	See alternative description above.				

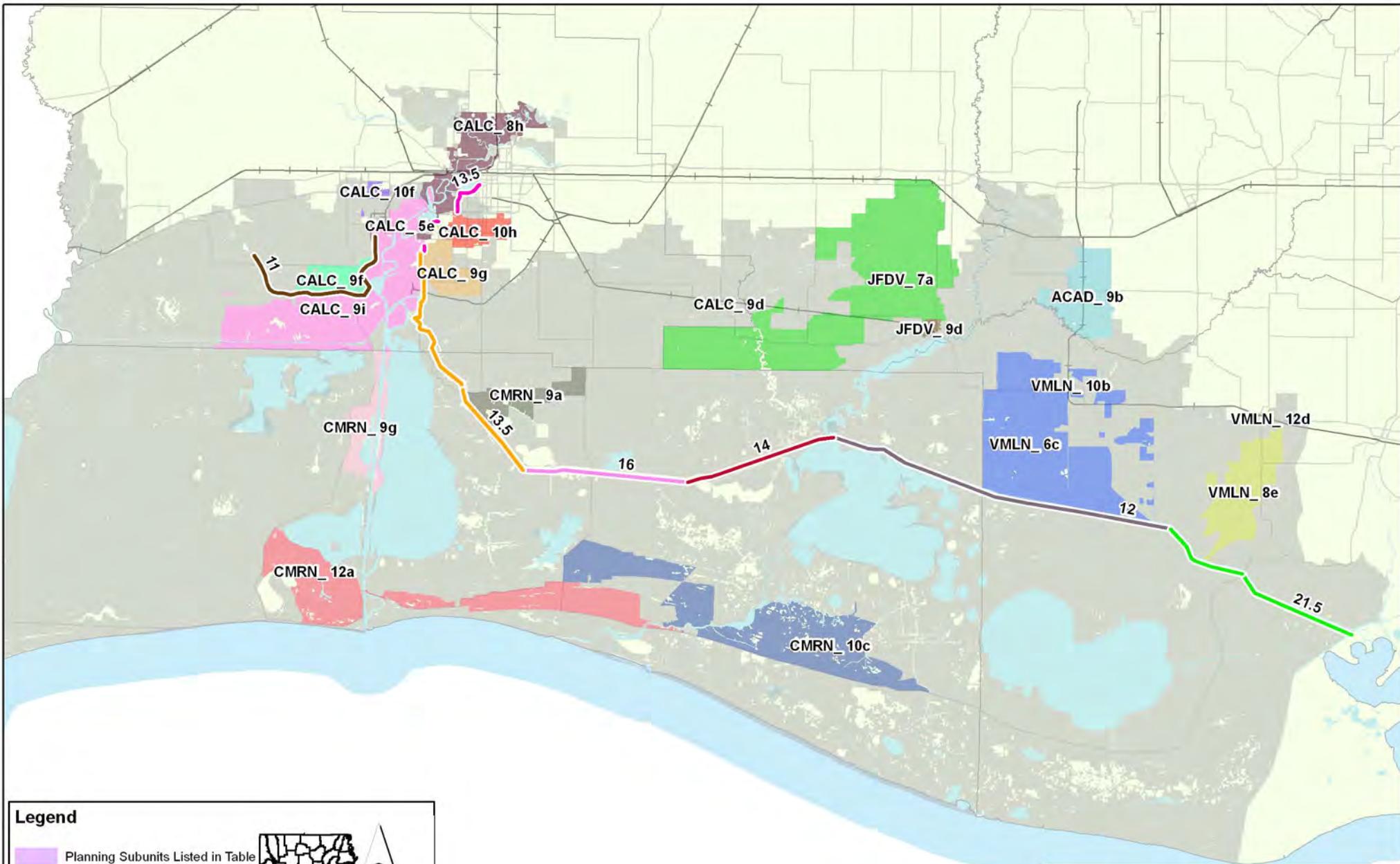
Scenario	Future Conditions (Relative Sea Level Rise (RSLR) and Redevelopment Assumptions)	Uncertainty	Results by Scenario with Uncertainty Bands								
			Life Cycle Cost	Population Impacted	Residual Damages	Gross Regional Output Impacted	Employment Impacted	People's Earned Income Impacted	Archeo. Sites Protected	Historic Properties Protected	Historic Districts Protected
			Ann. Equiv. \$ Millions	Ann. Equiv. #	Ann. Equiv. \$ Millions	Ann. Equiv. \$ Millions	Ann. Equiv. #	Ann. Equiv. \$ Millions	# Sites	# Properties	# Districts
1	Low RSLR High Employment Dispersed Population	High	1,163	2,266	200	192	607	34	140	3	0
		Mid		2,961	247	219	697	38	116	3	0
		Low		3,672	307	272	851	47	91	3	0
2	High RSLR High Employment Dispersed Population	High	1,192	2,403	209	211	633	37	140	3	0
		Mid		3,045	260	275	767	46	116	3	0
		Low		3,813	324	347	902	53	91	3	0
3	Low RSLR Business-as-Usual Compact Population	High	1,163	2,178	212	212	654	38	140	3	0
		Mid		2,815	268	240	739	42	116	3	0
		Low		3,474	346	279	871	49	91	3	0
4	High RSLR Business-as-Usual Compact Population	High	1,192	2,296	224	240	692	42	140	3	0
		Mid		2,917	293	284	800	48	116	3	0
		Low		3,614	382	343	917	55	91	3	0

Other Results			Wetlands Created/Protected		Scenario 1	Scenario 2	Scenario 3	Scenario 4	
Construction Time (years)			After 50 yrs (% of baseline)		103	101	103	101	
Direct Wetland Impacts (acres)			After 100 yrs (% of baseline)		106	100	106	100	
Indirect Impacts (unitless)			Present Value of Life Cycle Costs (\$ Millions)						
Spatial Integrity (unitless)			Coastal Component		10,783	11,077	10,783	11,077	
Non-Federal Share of Present Value of Life Cycle Costs	Scenario	(\$ Millions)	Nonstructural Component		0	0	0	0	
	1 / 2	8,065	8,266	Structural Component		11,989	12,272	11,989	12,272
	3 / 4	8,065	8,266	Total Project		22,773	23,349	22,773	23,349

2075 Residual Risk / Damages - Low Uncertainty (\$ Millions)								Planning Unit 4 Structural Plan GIWW Alt 100-year Design	
Frequency	Scenario 1		Scenario 2		Scenario 3		Scenario 4		
	No Action	With Proj							
10-year	472	394	725	562	511	468	794	674	
100-year	3,034	1,867	4,142	2,232	3,315	2,575	5,183	3,735	
400-year	6,592	4,220	7,874	4,668	8,001	6,334	9,283	6,817	
1,000-year	10,316	8,170	11,581	8,689	11,241	9,787	12,313	10,411	
2,000-year	12,755	9,113	13,904	9,541	13,422	10,778	14,373	11,094	

Note: Present Value costs and Annual Equivalent numbers are calculated for the period from 2010 to 2075 at common base year 2025 using a 4.7%/8% Federal discount rate. All dollar metrics are based on 2007 price levels.





Legend

Planning Subunits Listed in Table
Other Planning Subunits

Proposed New Alignments

15 Proposed Levee Alignment and Height

Proposed Weir Alignment



Miles
3 1.5 0 3 6 9 12 15

Louisiana Coastal Protection and Restoration
Planning Unit 4
Chenier Plain

GIWW Plan
PU4 - G - 100 - 1

Planning Subunits - Key Map

Alternative: PU4-G-100-1
Water Surface Elevations (feet - NAVD88 2004.65)

Planning Sub Unit	2010 (Base) Conditions						2060 (Future) Conditions					
	100-yr Event		400-year Event		1,000-yr Event		100-yr Event		400-year Event		1,000-yr Event	
	Without Project	With Project	Without Project	With Project	Without Project	With Project	Without Project	With Project	Without Project	With Project	Without Project	With Project
ACAD_9b	7.8	2.7	9.4	7.5	12.2	12.0	10.4	2.7	12.0	7.5	14.8	12.0
CALC_10f	6.0	6.0	8.1	8.1	9.7	9.7	8.6	8.6	10.7	10.7	12.3	12.3
CALC_10h	5.5	10.2	6.1	13.5	9.1	13.5	8.1	10.2	8.7	13.5	11.7	13.5
CALC_5e	7.8	8.3	8.5	13.5	12.1	13.5	10.4	8.3	11.1	13.5	14.7	13.5
CALC_8h	7.8	7.8	10.7	10.7	12.8	12.8	10.4	10.4	13.3	13.3	15.4	15.4
CALC_9d	7.8	2.6	9.7	6.7	13.6	13.3	10.4	2.6	12.3	6.7	16.2	13.3
CALC_9f	8.8	7.2	13.6	11.0	16.0	11.0	11.4	7.2	16.2	11.0	18.6	11.0
CALC_9g	10.9	4.3	14.6	12.4	17.1	13.5	13.5	4.3	17.2	12.4	19.7	13.5
CALC_9i	8.4	8.4	12.8	12.8	15.3	15.3	11.0	11.0	15.4	15.4	17.9	17.9
CMRN_10c	11.1	11.8	14.8	15.5	16.8	17.5	13.8	14.4	17.1	18.1	18.8	20.1
CMRN_12a	13.0	14.4	16.9	18.3	19.0	20.4	15.3	17.0	18.9	20.9	20.7	23.0
CMRN_9a	9.5	2.6	14.1	6.7	16.3	13.3	12.1	2.6	16.7	6.7	18.9	13.3
CMRN_9g	9.6	10.8	13.1	15.0	15.2	17.2	12.7	13.4	16.4	17.6	18.6	19.8
JFDV_7a	7.5	2.6	11.9	6.7	14.7	13.3	10.1	2.6	14.5	6.7	17.3	13.3
JFDV_9d	6.4	2.7	11.1	7.5	13.5	12.0	9.0	2.7	13.7	7.5	16.1	12.0
VMLN_10b	7.8	2.7	11.2	7.5	13.5	12.0	10.4	2.7	13.8	7.5	16.1	12.0
VMLN_12d	7.8	2.7	11.1	7.5	14.3	12.0	10.4	2.7	13.7	7.5	16.9	12.0
VMLN_6c	7.8	2.7	10.7	7.5	12.7	12.0	10.4	2.7	13.3	7.5	15.3	12.0
VMLN_8e	8.6	2.7	12.1	7.5	14.2	12.0	11.2	2.7	14.7	7.5	16.8	12.0
Evaluation Parameters	Confidence Level:			90%	Levee Design: Levee Overtopping:	No Friction Waves				No Friction Waves		
	Future Relative Sea Level Rise:			2.6 feet		No Friction Waves						

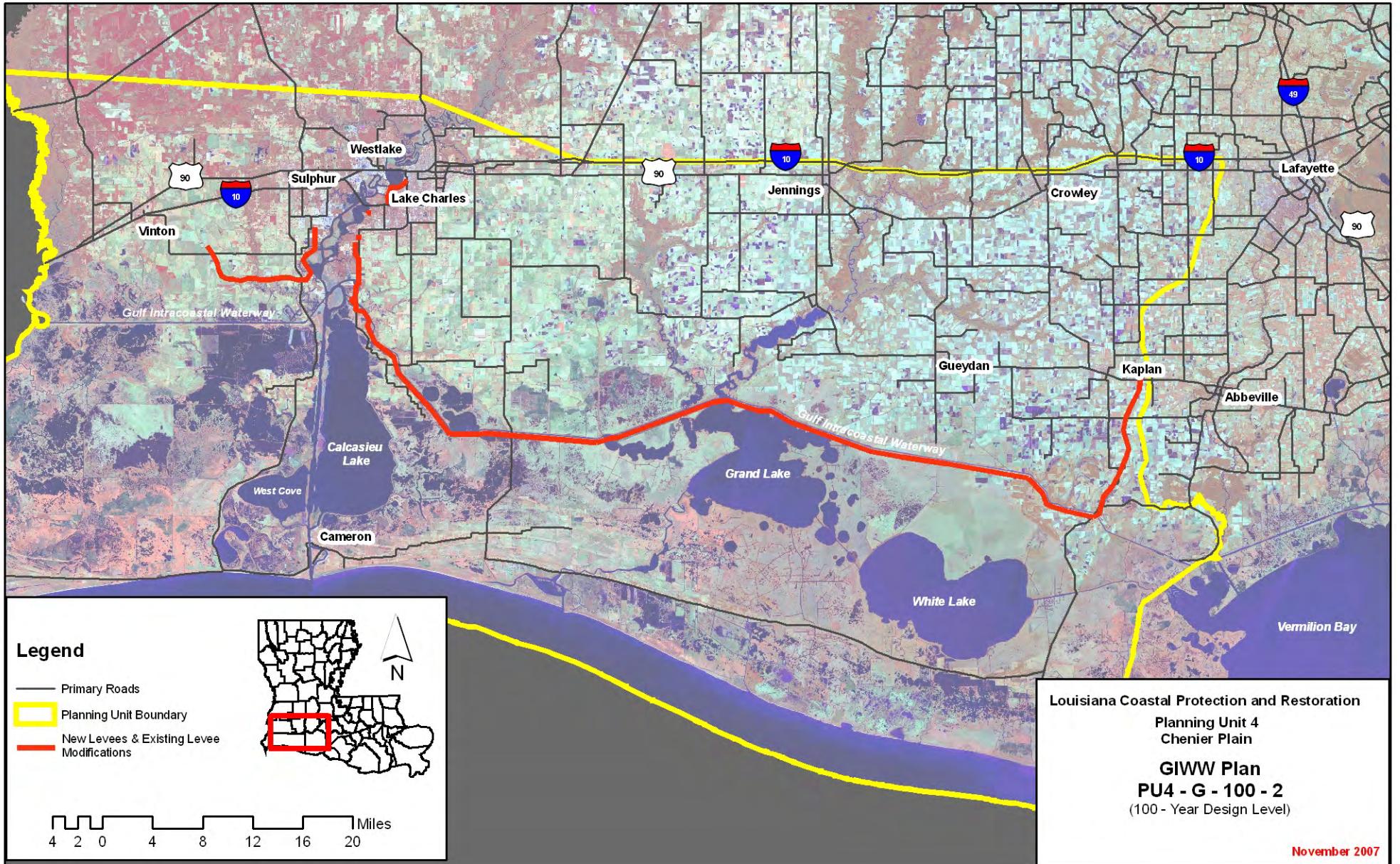
Planning Unit:	4	Alt. No.:	PU4-G-100-2	Category:	Coastal Restoration + Structural Measures	
Alternative Description:	Sustain coastal landscape through restoration. Construct a continuous levee (with gates) along the GIWW plus a ring levee to the west of the Calcasieu River and a series of levees within Lake Charles to separate the river from the land at the 100-year de					
Coastal Component:	R1	Nonstructural Component:		None		
Structural Component:	See alternative description above.					

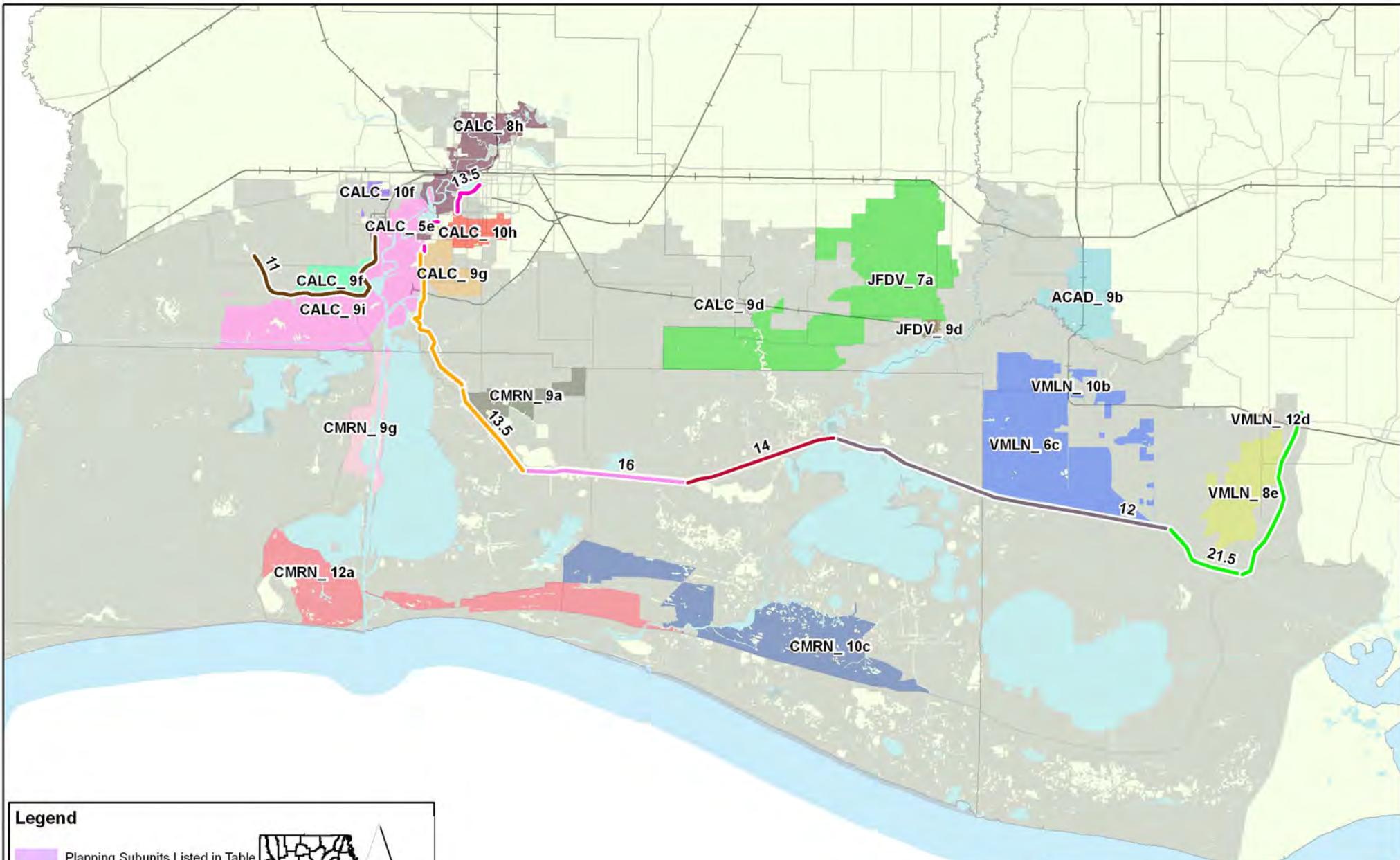
Scenario	Future Conditions (Relative Sea Level Rise (RSLR) and Redevelopment Assumptions)	Uncertainty	Results by Scenario with Uncertainty Bands								
			Life Cycle Cost	Population Impacted	Residual Damages	Gross Regional Output Impacted	Employment Impacted	People's Earned Income Impacted	Archeo. Sites Protected	Historic Properties Protected	Historic Districts Protected
			Ann. Equiv. \$ Millions	Ann. Equiv. #	Ann. Equiv. \$ Millions	Ann. Equiv. \$ Millions	Ann. Equiv. #	Ann. Equiv. \$ Millions	# Sites	# Properties	# Districts
1	Low RSLR High Employment Dispersed Population	High	1,152	2,384	214	246	712	45	139	2	0
		Mid		3,085	262	274	806	49	115	0	0
		Low		3,800	324	326	959	58	90	0	0
2	High RSLR High Employment Dispersed Population	High	1,182	2,525	225	266	740	48	139	2	0
		Mid		3,170	277	330	876	56	115	0	0
		Low		3,943	342	402	1,010	64	90	0	0
3	Low RSLR Business-as-Usual Compact Population	High	1,152	2,271	224	258	741	47	139	2	0
		Mid		2,913	281	287	830	51	115	0	0
		Low		3,576	360	326	961	58	90	0	0
4	High RSLR Business-as-Usual Compact Population	High	1,182	2,391	238	287	781	51	139	2	0
		Mid		3,015	307	331	891	58	115	0	0
		Low		3,716	397	390	1,007	64	90	0	0

Other Results			Wetlands Created/Protected		Scenario 1	Scenario 2	Scenario 3	Scenario 4
Construction Time (years)			After 50 yrs (% of baseline)		103	101	103	101
Direct Wetland Impacts (acres)			After 100 yrs (% of baseline)		106	100	106	100
Indirect Impacts (unitless)			Present Value of Life Cycle Costs (\$ Millions)					
Spatial Integrity (unitless)			Coastal Component		10,783	11,077	10,783	11,077
Non-Federal Share of Present Value of Life Cycle Costs	Scenario	(\$ Millions)		Nonstructural Component		0	0	0
	1 / 2	7,995	8,196	Structural Component		11,785	12,065	11,785
	3 / 4	7,995	8,196	Total Project		22,568	23,143	22,568

2075 Residual Risk / Damages - Low Uncertainty (\$ Millions)								Planning Unit 4 Structural Plan GIWW Alt 100-year Design	
Frequency	Scenario 1		Scenario 2		Scenario 3		Scenario 4		
	No Action	With Proj							
10-year	472	464	725	661	511	526	794	758	
100-year	3,034	2,113	4,142	2,534	3,315	2,785	5,183	3,991	
400-year	6,592	4,588	7,874	5,055	8,001	6,647	9,283	7,152	
1,000-year	10,316	8,435	11,581	8,961	11,241	10,013	12,313	10,649	
2,000-year	12,755	9,247	13,904	9,681	13,422	10,913	14,373	11,239	

Note: Present Value costs and Annual Equivalent numbers are calculated for the period from 2010 to 2075 at common base year 2025 using a 4.7/8% Federal discount rate. All dollar metrics are based on 2007 price levels.





Legend

- Planning Subunits Listed in Table
- Other Planning Subunits
- Proposed New Alignments**
 - Proposed Levee Alignment and Height
 - Proposed Weir Alignment



Miles
3 1.5 0 3 6 9 12 15

Louisiana Coastal Protection and Restoration
Planning Unit 4
Chenier Plain

GIWW Plan
PU4 - G - 100 - 2

Planning Subunits - Key Map

June 2008

Alternative: PU4-G-100-2
Water Surface Elevations (feet - NAVD88 2004.65)

Planning Sub Unit	2010 (Base) Conditions						2060 (Future) Conditions					
	100-yr Event		400-year Event		1,000-yr Event		100-yr Event		400-year Event		1,000-yr Event	
	Without Project	With Project	Without Project	With Project	Without Project	With Project	Without Project	With Project	Without Project	With Project	Without Project	With Project
ACAD_9b	7.8	2.7	9.4	7.7	12.2	12.0	10.4	2.7	12.0	7.7	14.8	12.0
CALC_10f	6.0	6.0	8.1	8.1	9.7	9.7	8.6	8.6	10.7	10.7	12.3	12.3
CALC_10h	5.5	10.2	6.1	13.5	9.1	13.5	8.1	10.2	8.7	13.5	11.7	13.5
CALC_5e	7.8	8.3	8.5	13.5	12.1	13.5	10.4	8.3	11.1	13.5	14.7	13.5
CALC_8h	7.8	7.8	10.7	10.7	12.8	12.8	10.4	10.4	13.3	13.3	15.4	15.4
CALC_9d	7.8	2.6	9.7	6.7	13.6	13.3	10.4	2.6	12.3	6.7	16.2	13.3
CALC_9f	8.8	7.2	13.6	11.0	16.0	11.0	11.4	7.2	16.2	11.0	18.6	11.0
CALC_9g	10.9	4.3	14.6	12.4	17.1	13.5	13.5	4.3	17.2	12.4	19.7	13.5
CALC_9i	8.4	8.4	12.8	12.8	15.3	15.3	11.0	11.0	15.4	15.4	17.9	17.9
CMRN_10c	11.1	11.8	14.8	15.5	16.8	17.5	13.8	14.4	17.1	18.1	18.8	20.1
CMRN_12a	13.0	14.4	16.9	18.3	19.0	20.4	15.3	17.0	18.9	20.9	20.7	23.0
CMRN_9a	9.5	2.6	14.1	6.7	16.3	13.3	12.1	2.6	16.7	6.7	18.9	13.3
CMRN_9g	9.6	10.8	13.1	15.0	15.2	17.2	12.7	13.4	16.4	17.6	18.6	19.8
JFDV_7a	7.5	2.6	11.9	6.7	14.7	13.3	10.1	2.6	14.5	6.7	17.3	13.3
JFDV_9d	6.4	2.7	11.1	7.7	13.5	12.0	9.0	2.7	13.7	7.7	16.1	12.0
VMLN_10b	7.8	2.7	11.2	7.7	13.5	12.0	10.4	2.7	13.8	7.7	16.1	12.0
VMLN_12d	7.8	2.7	11.1	7.7	14.3	12.0	10.4	2.7	13.7	7.7	16.9	12.0
VMLN_6c	7.8	2.7	10.7	7.7	12.7	12.0	10.4	2.7	13.3	7.7	15.3	12.0
VMLN_8e	8.6	2.7	12.1	7.7	14.2	12.0	11.2	2.7	14.7	7.7	16.8	12.0
Evaluation Parameters	Confidence Level:			90%	Levee Design: Levee Overtopping:	No Friction Waves				No Friction Waves		
	Future Relative Sea Level Rise:			2.6 feet		No Friction Waves						

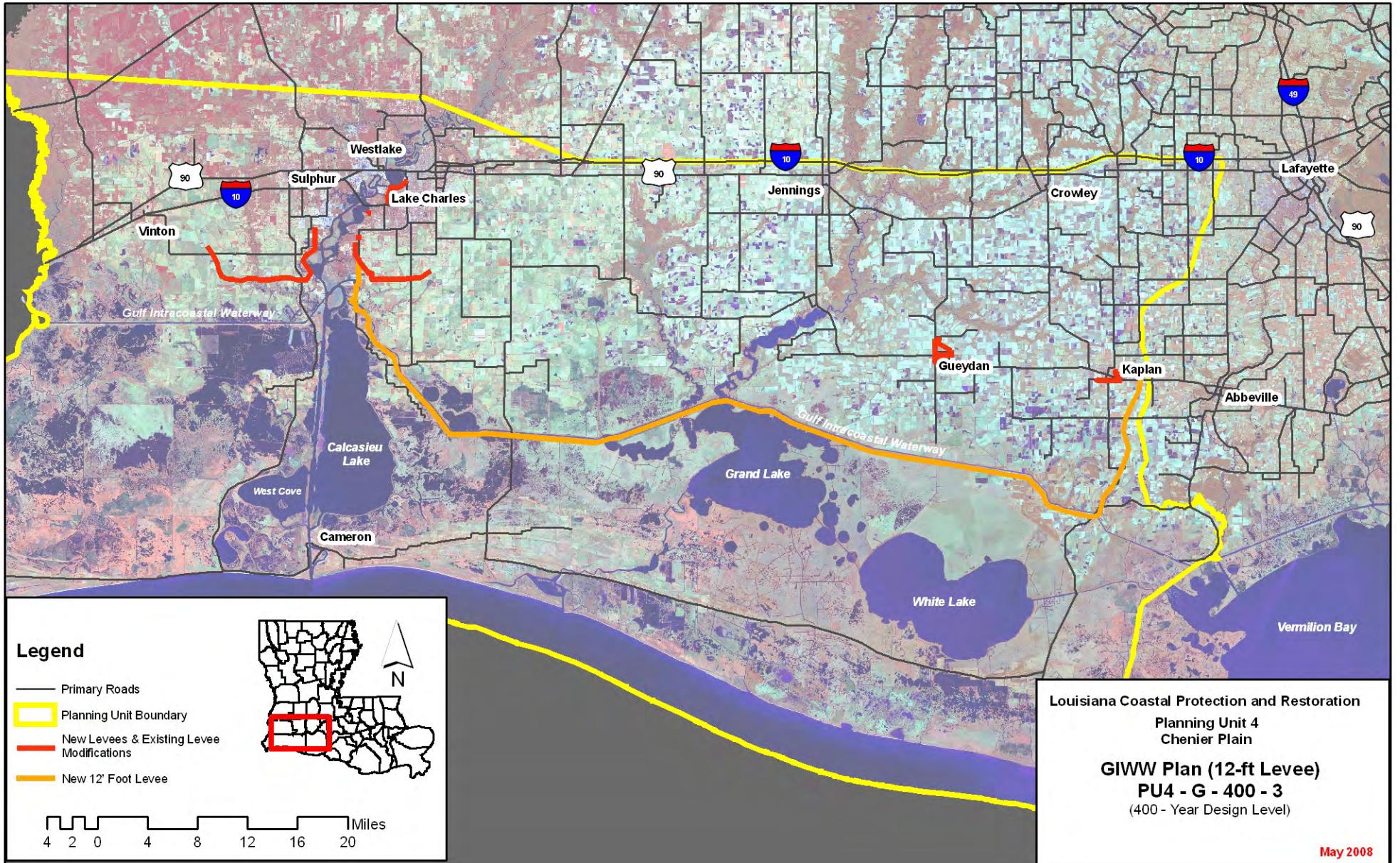
Planning Unit:	4	Alt. No.:	PU4-G-400-3	Category:	Coastal Restoration + Structural Measures	
Alternative Description:	Sustain coastal landscape through restoration. Construct a continuous 12-foot levee (with gates) along the GIWW plus a ring levee to the west of the Calcasieu River and a series of levees within Lake Charles to separate the river from the land. Includes s					
Coastal Component:	R1	Nonstructural Component:		None		
Structural Component:	See alternative description above.					

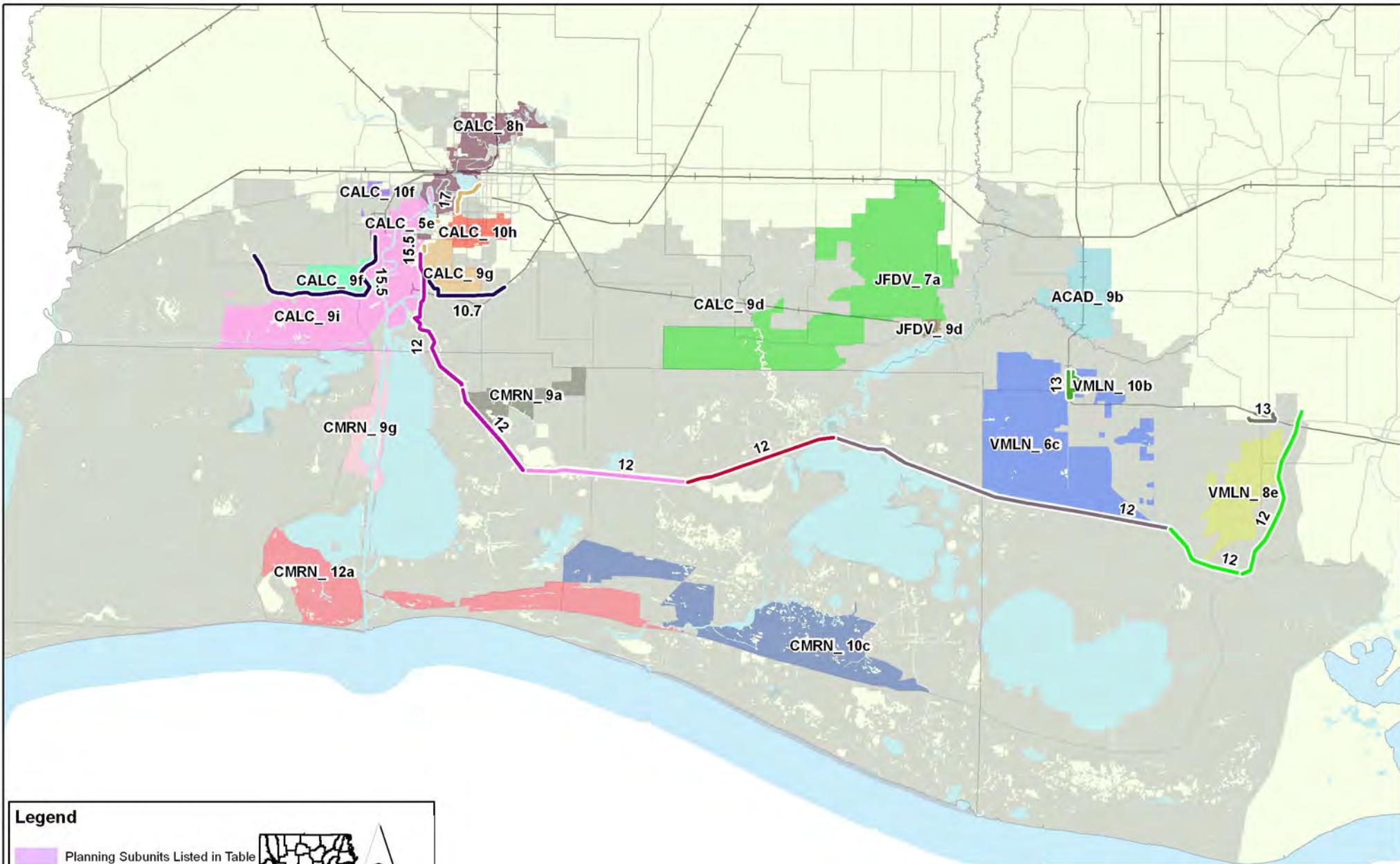
Scenario	Future Conditions (Relative Sea Level Rise (RSLR) and Redevelopment Assumptions)	Uncertainty	Results by Scenario with Uncertainty Bands								
			Life Cycle Cost	Population Impacted	Residual Damages	Gross Regional Output Impacted	Employment Impacted	People's Earned Income Impacted	Archeo. Sites Protected	Historic Properties Protected	Historic Districts Protected
			Ann. Equiv. \$ Millions	Ann. Equiv. #	Ann. Equiv. \$ Millions	Ann. Equiv. \$ Millions	Ann. Equiv. #	Ann. Equiv. \$ Millions	# Sites	# Properties	# Districts
1	Low RSLR High Employment Dispersed Population	High	1,150	2,576	215	246	712	45	139	1	0
		Mid		3,196	261	273	796	48	115	1	0
		Low		3,899	324	328	958	58	90	1	0
2	High RSLR High Employment Dispersed Population	High	1,179	2,716	226	266	740	48	139	1	0
		Mid		3,281	276	329	866	56	115	1	0
		Low		4,041	342	404	1,009	64	90	0	0
3	Low RSLR Business-as-Usual Compact Population	High	1,150	2,454	225	258	741	47	139	1	0
		Mid		3,033	280	285	818	50	115	1	0
		Low		3,679	359	327	958	58	90	1	0
4	High RSLR Business-as-Usual Compact Population	High	1,179	2,574	239	287	781	51	139	1	0
		Mid		3,135	306	329	878	57	115	1	0
		Low		3,818	396	390	1,005	64	90	0	0

Other Results			Wetlands Created/Protected		Scenario 1	Scenario 2	Scenario 3	Scenario 4
Construction Time (years)			After 50 yrs (% of baseline)		103	101	103	101
Direct Wetland Impacts (acres)			After 100 yrs (% of baseline)		106	100	106	100
Indirect Impacts (unitless)			Present Value of Life Cycle Costs (\$ Millions)					
Spatial Integrity (unitless)			Coastal Component		10,783	11,077	10,783	11,077
Non-Federal Share of Present Value of Life Cycle Costs	Scenario	(\$ Millions)		Nonstructural Component		0	0	0
	1 / 2	7,985	8,187	Structural Component		11,732	12,012	11,732
	3 / 4	7,985	8,187	Total Project		22,515	23,089	22,515

2075 Residual Risk / Damages - Low Uncertainty (\$ Millions)								Planning Unit 4 Structural Plan GIWW Alt 400-year Design
Frequency	Scenario 1		Scenario 2		Scenario 3		Scenario 4	
	No Action	With Proj						
	10-year	472	469	725	667	511	532	794
100-year	3,034	2,137	4,142	2,557	3,315	2,808	5,183	4,013
400-year	6,592	3,645	7,874	4,112	8,001	5,660	9,283	6,166
1,000-year	10,316	10,277	11,581	10,802	11,241	11,569	12,313	12,205
2,000-year	12,755	12,551	13,904	12,984	13,422	13,834	14,373	14,160

Note: Present Value costs and Annual Equivalent numbers are calculated for the period from 2010 to 2075 at common base year 2025 using a 4.7/8% Federal discount rate. All dollar metrics are based on 2007 price levels.





Legend

Planning Subunits Listed in Table
Other Planning Subunits

Proposed New Alignments

15 Proposed Levee Alignment and Height
--- Proposed Weir Alignment

Miles
2.5 250 2.5 5 7.5 10 12.5



Louisiana Coastal Protection and Restoration
Planning Unit 4
Chenier Plain

Ring Levee Plan
PU4 - G- 400 -3

Planning Subunits - Key Map

Alternative: PU4-G-400-3
Water Surface Elevations (feet - NAVD88 2004.65)

Planning Sub Unit	2010 (Base) Conditions						2060 (Future) Conditions					
	100-yr Event		400-year Event		1,000-yr Event		100-yr Event		400-year Event		1,000-yr Event	
	Without Project	With Project	Without Project	With Project	Without Project	With Project	Without Project	With Project	Without Project	With Project	Without Project	With Project
ACAD_9b	7.8	3.7	9.4	7.6	12.2	12.0	10.4	3.7	12.0	7.6	14.8	12.0
CALC_10f	6.0	6.0	8.1	8.1	9.7	9.7	8.6	8.6	10.7	10.7	12.3	12.3
CALC_10h	5.5	10.1	6.1	10.4	9.1	14.9	8.1	10.1	8.7	10.4	11.7	14.9
CALC_5e	7.8	8.0	8.5	8.7	12.1	16.9	10.4	8.0	11.1	8.7	14.7	16.9
CALC_8h	7.8	7.8	10.7	10.7	12.8	12.8	10.4	10.4	13.3	13.3	15.4	15.4
CALC_9d	7.8	3.1	9.7	8.5	13.6	12.0	10.4	3.1	12.3	8.5	16.2	12.0
CALC_9f	8.8	7.2	13.6	7.2	16.0	15.2	11.4	7.2	16.2	7.2	18.6	15.2
CALC_9g	10.9	8.1	14.6	8.1	17.1	15.5	13.5	8.1	17.2	8.1	19.7	15.5
CALC_9i	8.4	8.4	12.8	12.8	15.3	15.3	11.0	11.0	15.4	15.4	17.9	17.9
CMRN_10c	11.1	11.8	14.8	15.5	16.8	17.5	13.8	14.4	17.1	18.1	18.8	20.1
CMRN_12a	13.0	14.4	16.9	18.3	19.0	20.4	15.3	17.0	18.9	20.9	20.7	23.0
CMRN_9a	9.5	3.1	14.1	8.5	16.3	12.0	12.1	3.1	16.7	8.5	18.9	12.0
CMRN_9g	9.6	10.8	13.1	15.0	15.2	17.2	12.7	13.4	16.4	17.6	18.6	19.8
JFDV_7a	7.5	3.1	11.9	8.5	14.7	12.0	10.1	3.1	14.5	8.5	17.3	12.0
JFDV_9d	6.4	3.7	11.1	7.6	13.5	12.0	9.0	3.7	13.7	7.6	16.1	12.0
VMLN_10b	7.8	5.7	11.2	6.7	13.5	15.5	10.4	5.7	13.8	6.7	16.1	15.5
VMLN_12d	7.8	11.3	11.1	12.1	14.3	15.5	10.4	11.3	13.7	12.1	16.9	15.5
VMLN_6c	7.8	3.7	10.7	7.6	12.7	12.0	10.4	3.7	13.3	7.6	15.3	12.0
VMLN_8e	8.6	3.7	12.1	7.6	14.2	12.0	11.2	3.7	14.7	7.6	16.8	12.0
Evaluation Parameters	Confidence Level:			90%	Levee Design: Levee Overtopping:	No Friction Waves				No Friction Waves		
	Future Relative Sea Level Rise:			2.6 feet		No Friction Waves						

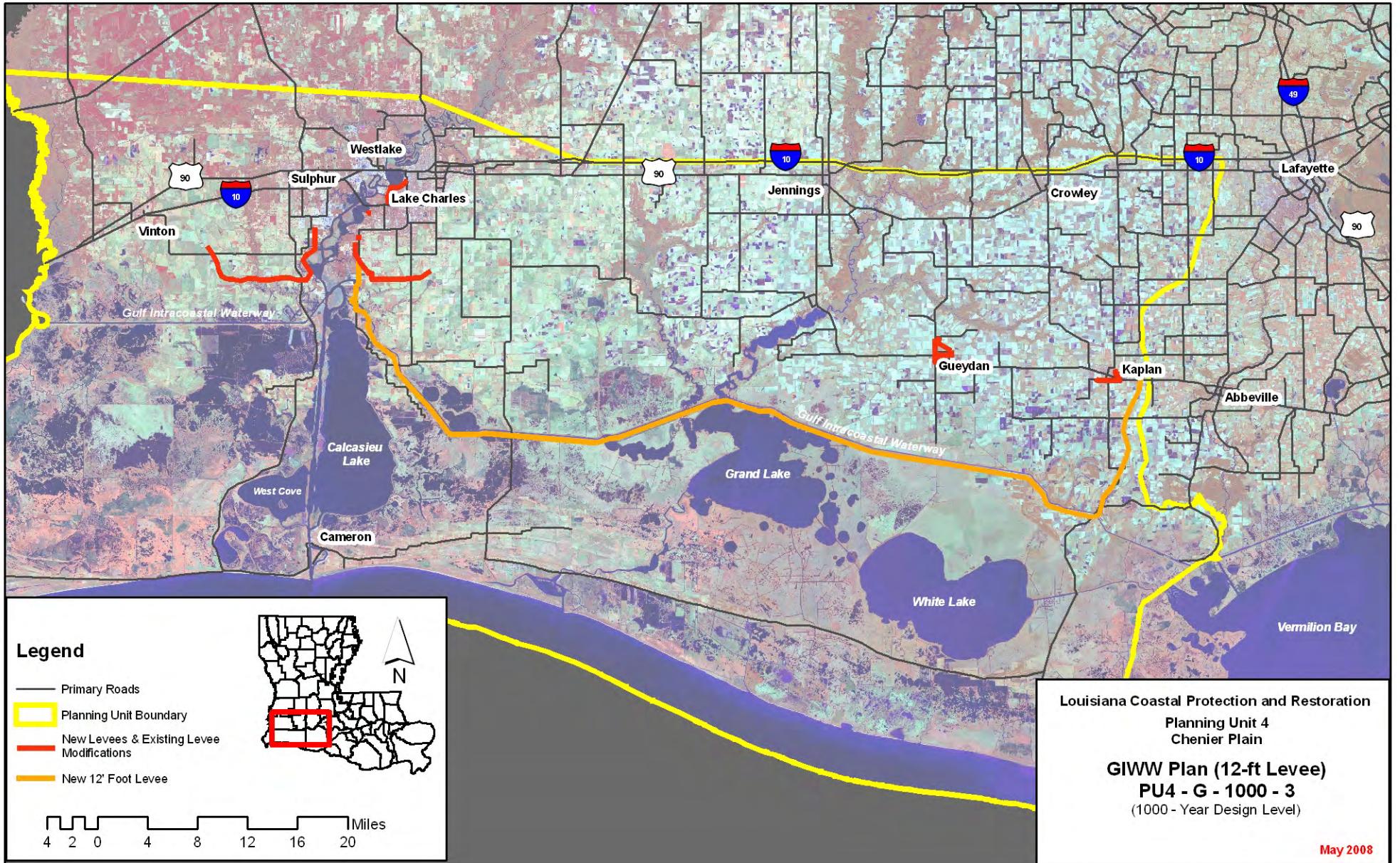
Planning Unit:	4	Alt. No.:	PU4-G-1000-3	Category:	Coastal Restoration + Structural Measures	
Alternative Description:	Sustain coastal landscape through restoration. Construct a 12-foot continuous levee (with gates) along the GIWW plus a ring levee to the west of the Calcasieu River and a series of levees within Lake Charles to separate the river from the land. Includes					
Coastal Component:	R1	Nonstructural Component:		None		
Structural Component:	See alternative description above.					

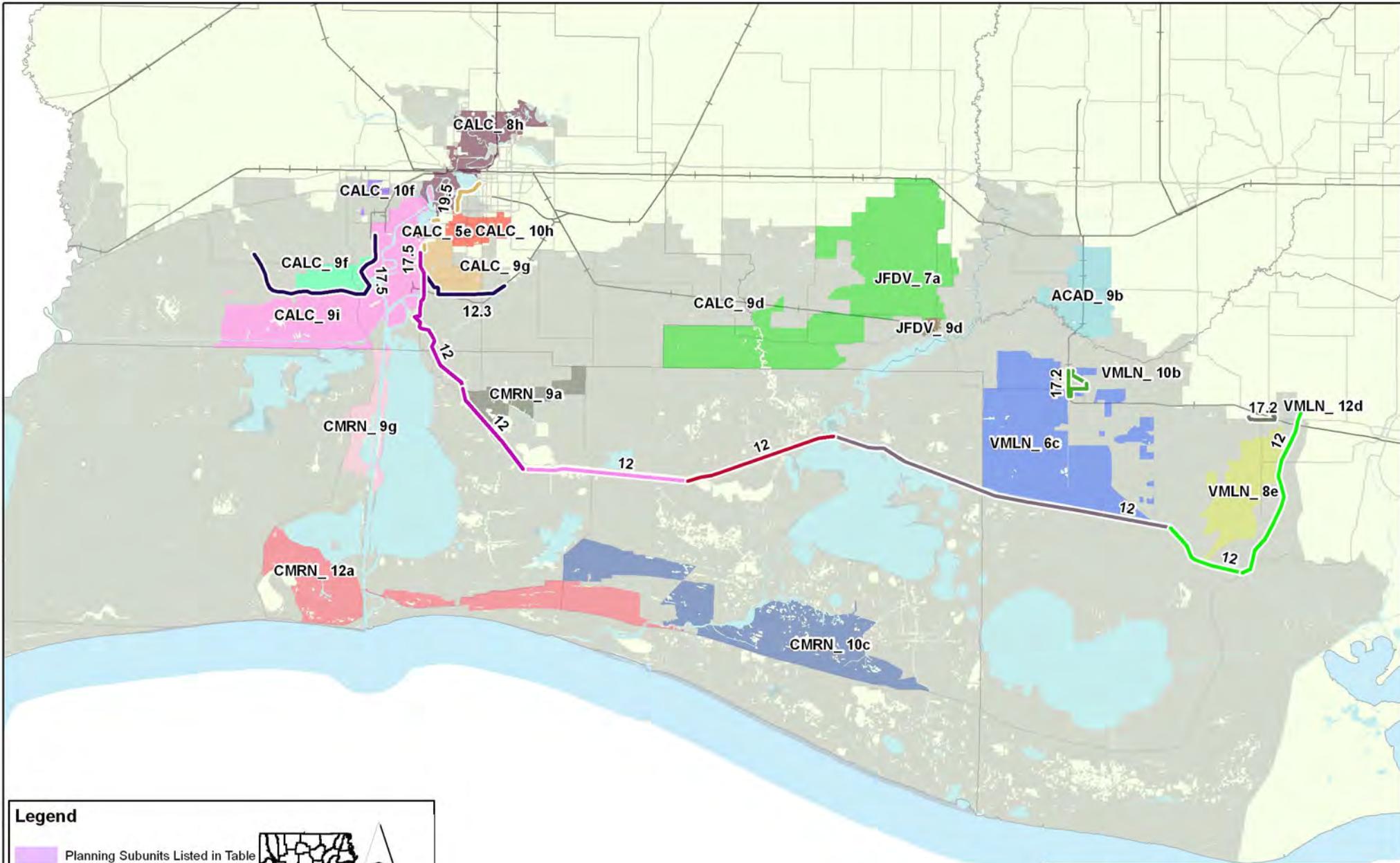
Scenario	Future Conditions (Relative Sea Level Rise (RSLR) and Redevelopment Assumptions)	Uncertainty	Results by Scenario with Uncertainty Bands								
			Life Cycle Cost	Population Impacted	Residual Damages	Gross Regional Output Impacted	Employment Impacted	People's Earned Income Impacted	Archeo. Sites Protected	Historic Properties Protected	Historic Districts Protected
			Ann. Equiv. \$ Millions	Ann. Equiv. #	Ann. Equiv. \$ Millions	Ann. Equiv. \$ Millions	Ann. Equiv. #	Ann. Equiv. \$ Millions	# Sites	# Properties	# Districts
1	Low RSLR High Employment Dispersed Population	High	1,174	2,575	215	246	712	45	139	1	0
		Mid		3,193	261	273	795	48	115	1	0
		Low		3,832	319	323	935	57	90	1	0
2	High RSLR High Employment Dispersed Population	High	1,203	2,716	226	266	740	48	139	1	0
		Mid		3,278	276	329	866	56	115	1	0
		Low		3,975	338	399	986	63	90	1	0
3	Low RSLR Business-as-Usual Compact Population	High	1,174	2,454	225	258	741	47	139	1	0
		Mid		3,030	280	285	818	50	115	1	0
		Low		3,620	355	322	934	57	90	1	0
4	High RSLR Business-as-Usual Compact Population	High	1,203	2,574	239	287	781	51	139	1	0
		Mid		3,132	306	329	878	57	115	1	0
		Low		3,759	392	386	980	63	90	1	0

Other Results			Wetlands Created/Protected		Scenario 1	Scenario 2	Scenario 3	Scenario 4
Construction Time (years)			After 50 yrs (% of baseline)		103	101	103	101
Direct Wetland Impacts (acres)			After 100 yrs (% of baseline)		106	100	106	100
Indirect Impacts (unitless)			Present Value of Life Cycle Costs (\$ Millions)					
Spatial Integrity (unitless)			Coastal Component		10,783	11,077	10,783	11,077
Non-Federal Share of Present Value of Life Cycle Costs	Scenario	(\$ Millions)		Nonstructural Component		0	0	0
	1 / 2	8,151	8,353	Structural Component		12,205	12,488	12,205
	3 / 4	8,151	8,353	Total Project		22,989	23,566	22,989

Frequency	2075 Residual Risk / Damages - Low Uncertainty (\$ Millions)								Planning Unit 4 Structural Plan GIWW Alt 1000-year Design	
	Scenario 1		Scenario 2		Scenario 3		Scenario 4			
	No Action	With Proj	No Action	With Proj	No Action	With Proj	No Action	With Proj		
10-year	472	469	725	667	511	532	794	763		
100-year	3,034	2,137	4,142	2,557	3,315	2,808	5,183	4,013		
400-year	6,592	3,628	7,874	4,095	8,001	5,642	9,283	6,147		
1,000-year	10,316	6,998	11,581	7,523	11,241	8,534	12,313	9,170		
2,000-year	12,755	9,115	13,904	9,548	13,422	10,747	14,373	11,073		

Note: Present Value costs and Annual Equivalent numbers are calculated for the period from 2010 to 2075 at common base year 2025 using a 4.7/8% Federal discount rate. All dollar metrics are based on 2007 price levels.





Legend

- Planning Subunits Listed in Table
 - Other Planning Subunits
- Proposed New Alignments**
- 15 Proposed Levee Alignment and Height
 - 12 Proposed Weir Alignment

Miles
3 1.5 0 3 6 9 12 15



Louisiana Coastal Protection and Restoration
Planning Unit 4
Chenier Plain

Ring Levee Plan
PU4 - G- 1000 - 3

Planning Subunits - Key Map

Alternative: PU4-G-1000-3
Water Surface Elevations (feet - NAVD88 2004.65)

Planning Sub Unit	2010 (Base) Conditions						2060 (Future) Conditions					
	100-yr Event		400-year Event		1,000-yr Event		100-yr Event		400-year Event		1,000-yr Event	
	Without Project	With Project	Without Project	With Project	Without Project	With Project	Without Project	With Project	Without Project	With Project	Without Project	With Project
ACAD_9b	7.8	3.7	9.4	7.6	12.2	12.0	10.4	3.7	12.0	7.6	14.8	12.0
CALC_10f	6.0	6.0	8.1	8.1	9.7	9.7	8.6	8.6	10.7	10.7	12.3	12.3
CALC_10h	5.5	10.1	6.1	10.1	9.1	10.3	8.1	10.1	8.7	10.1	11.7	10.3
CALC_5e	7.8	8.0	8.5	8.0	12.1	8.4	10.4	8.0	11.1	8.0	14.7	8.4
CALC_8h	7.8	7.8	10.7	10.7	12.8	12.8	10.4	10.4	13.3	13.3	15.4	15.4
CALC_9d	7.8	3.1	9.7	8.5	13.6	12.0	10.4	3.1	12.3	8.5	16.2	12.0
CALC_9f	8.8	7.2	13.6	7.2	16.0	7.2	11.4	7.2	16.2	7.2	18.6	7.2
CALC_9g	10.9	8.1	14.6	8.1	17.1	8.1	13.5	8.1	17.2	8.1	19.7	8.1
CALC_9i	8.4	8.4	12.8	12.8	15.3	15.3	11.0	11.0	15.4	15.4	17.9	17.9
CMRN_10c	11.1	11.8	14.8	15.5	16.8	17.5	13.8	14.4	17.1	18.1	18.8	20.1
CMRN_12a	13.0	14.4	16.9	18.3	19.0	20.4	15.3	17.0	18.9	20.9	20.7	23.0
CMRN_9a	9.5	3.1	14.1	8.5	16.3	12.0	12.1	3.1	16.7	8.5	18.9	12.0
CMRN_9g	9.6	10.8	13.1	15.0	15.2	17.2	12.7	13.4	16.4	17.6	18.6	19.8
JFDV_7a	7.5	3.1	11.9	8.5	14.7	12.0	10.1	3.1	14.5	8.5	17.3	12.0
JFDV_9d	6.4	3.7	11.1	7.6	13.5	12.0	9.0	3.7	13.7	7.6	16.1	12.0
VMLN_10b	7.8	5.7	11.2	5.7	13.5	7.3	10.4	5.7	13.8	5.7	16.1	7.3
VMLN_12d	7.8	11.3	11.1	11.3	14.3	12.5	10.4	11.3	13.7	11.3	16.9	12.5
VMLN_6c	7.8	3.7	10.7	7.6	12.7	12.0	10.4	3.7	13.3	7.6	15.3	12.0
VMLN_8e	8.6	3.7	12.1	7.6	14.2	12.0	11.2	3.7	14.7	7.6	16.8	12.0
Evaluation Parameters	Confidence Level:			90%	Levee Design: Levee Overtopping:	No Friction Waves				No Friction Waves		
	Future Relative Sea Level Rise:			2.6 feet		No Friction Waves						

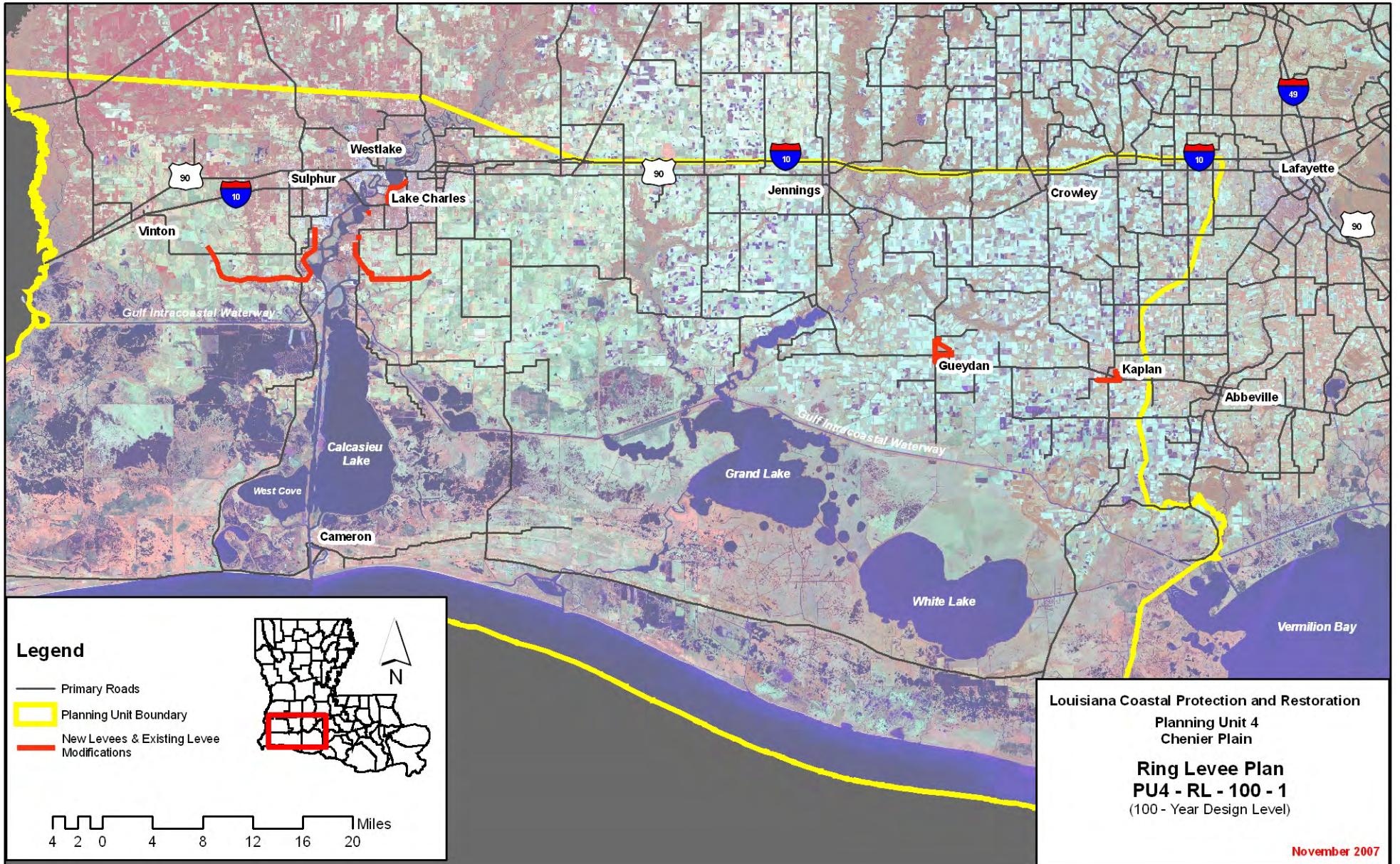
Planning Unit:	4	Alt. No.:	PU4-RL-100-1	Category:	Coastal Restoration + Structural Measures
Alternative Description:	Sustain coastal landscape through restoration. Construct ring levees to the east and west of Lake Charles; construct a series of levees within Lake Charles to separate the river from the land; and construct ring levees around Kaplan and Gueydan to the 100				
Coastal Component:	R1		Nonstructural Component:		None
Structural Component:	See alternative description above.				

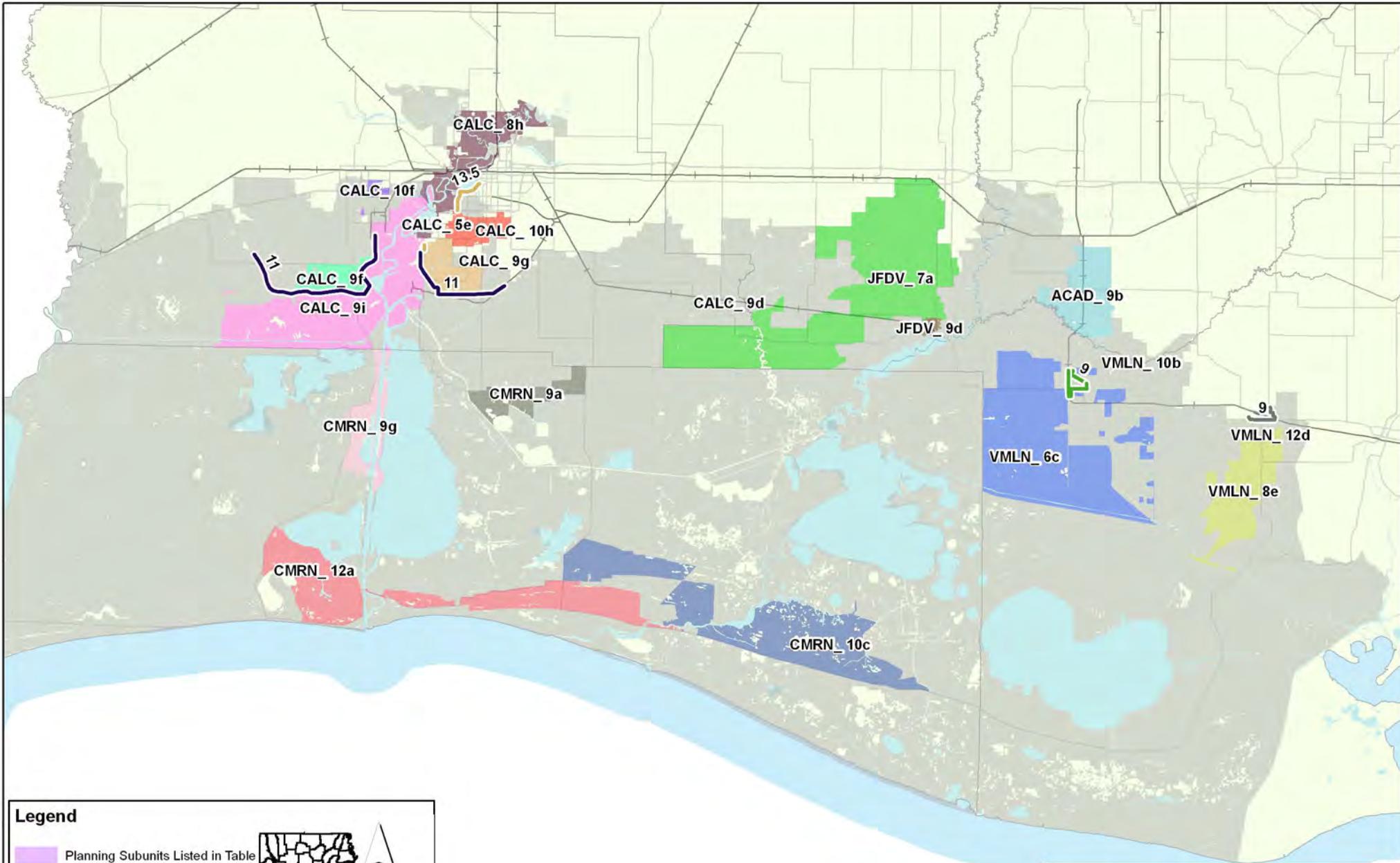
Scenario	Future Conditions (Relative Sea Level Rise (RSLR) and Redevelopment Assumptions)	Uncertainty	Results by Scenario with Uncertainty Bands								
			Life Cycle Cost	Population Impacted	Residual Damages	Gross Regional Output Impacted	Employment Impacted	People's Earned Income Impacted	Archeo. Sites Protected	Historic Properties Protected	Historic Districts Protected
			Ann. Equiv. \$ Millions	Ann. Equiv. #	Ann. Equiv. \$ Millions	Ann. Equiv. \$ Millions	Ann. Equiv. #	Ann. Equiv. \$ Millions	# Sites	# Properties	# Districts
1	Low RSLR High Employment Dispersed Population	High	689	2,883	217	249	720	45	109	1	0
		Mid		3,817	277	278	821	49	85	1	0
		Low		4,704	352	335	982	60	60	0	0
2	High RSLR High Employment Dispersed Population	High	705	3,121	233	268	745	48	109	1	0
		Mid		3,985	300	341	911	59	85	0	0
		Low		4,972	381	412	1,037	66	60	0	0
3	Low RSLR Business-as-Usual Compact Population	High	689	2,721	226	262	752	48	109	1	0
		Mid		3,576	292	291	848	52	85	1	0
		Low		4,358	376	336	1,002	61	60	0	0
4	High RSLR Business-as-Usual Compact Population	High	705	2,924	244	289	789	52	109	1	0
		Mid		3,748	317	342	927	60	85	0	0
		Low		4,607	424	401	1,050	67	60	0	0

Other Results			Wetlands Created/Protected		Scenario 1	Scenario 2	Scenario 3	Scenario 4
Construction Time (years)			After 50 yrs (% of baseline)		103	101	103	101
Direct Wetland Impacts (acres)			After 100 yrs (% of baseline)		106	100	106	100
Indirect Impacts (unitless)			Present Value of Life Cycle Costs (\$ Millions)					
Spatial Integrity (unitless)			Coastal Component		10,783	11,077	10,783	11,077
Non-Federal Share of Present Value of Life Cycle Costs	Scenario	(\$ Millions)		Nonstructural Component		0	0	0
	1 / 2	4,749	4,858	Structural Component		2,702	2,720	2,702
	3 / 4	4,749	4,858	Total Project		13,485	13,797	13,485

2075 Residual Risk / Damages - Low Uncertainty (\$ Millions)								Planning Unit 4 Structural Plan Ring Levee Alt 100-year Design	
Frequency	Scenario 1		Scenario 2		Scenario 3		Scenario 4		
	No Action	With Proj							
10-year	472	504	725	752	511	565	794	843	
100-year	3,034	2,666	4,142	3,524	3,315	2,871	5,183	4,570	
400-year	6,592	5,958	7,874	6,826	8,001	7,614	9,283	8,523	
1,000-year	10,316	8,701	11,581	9,566	11,241	9,957	12,313	10,673	
2,000-year	12,755	9,937	13,904	10,733	13,422	10,962	14,373	11,663	

Note: Present Value costs and Annual Equivalent numbers are calculated for the period from 2010 to 2075 at common base year 2025 using a 4.7%/8% Federal discount rate. All dollar metrics are based on 2007 price levels.





Legend

Purple Planning Subunits Listed in Table

Grey Other Planning Subunits

Proposed New Alignments

Red Proposed Levee Alignment and Height

Green Proposed Weir Alignment

Miles
3 1.5 0 3 6 9 12 15



Louisiana Coastal Protection and Restoration
Planning Unit 4
Chenier Plain

Ring Levee Plan
PU4 - RL - 100 - 1

Planning Subunits - Key Map

June 2008

46

Alternative: PU4-RL-100-1
Water Surface Elevations (feet - NAVD88 2004.65)

Planning Sub Unit	2010 (Base) Conditions						2060 (Future) Conditions					
	100-yr Event		400-year Event		1,000-yr Event		100-yr Event		400-year Event		1,000-yr Event	
	Without Project	With Project	Without Project	With Project	Without Project	With Project	Without Project	With Project	Without Project	With Project	Without Project	With Project
ACAD_9b	7.8	7.8	9.4	9.4	12.2	12.2	10.4	10.4	12.0	12.0	14.8	14.8
CALC_10f	6.0	6.0	8.1	8.1	9.7	9.7	8.6	8.6	10.7	10.7	12.3	12.3
CALC_10h	5.5	10.2	6.1	13.5	9.1	13.5	8.1	10.2	8.7	13.5	11.7	13.5
CALC_5e	7.8	8.3	8.5	13.5	12.1	13.5	10.4	8.3	11.1	13.5	14.7	13.5
CALC_8h	7.8	7.8	10.7	10.7	12.8	12.8	10.4	10.4	13.3	13.3	15.4	15.4
CALC_9d	7.8	7.8	9.7	9.7	13.6	13.6	10.4	10.4	12.3	12.3	16.2	16.2
CALC_9f	8.8	7.2	13.6	11.0	16.0	11.0	11.4	7.2	16.2	11.0	18.6	11.0
CALC_9g	10.9	8.1	14.6	11.0	17.1	11.0	13.5	8.1	17.2	11.0	19.7	11.0
CALC_9i	8.4	8.4	12.8	12.8	15.3	15.3	11.0	11.0	15.4	15.4	17.9	17.9
CMRN_10c	11.1	11.1	14.8	14.8	16.8	16.8	13.8	13.7	17.1	17.4	18.8	19.4
CMRN_12a	13.0	13.0	16.9	16.9	19.0	19.0	15.3	15.6	18.9	19.5	20.7	21.6
CMRN_9a	9.5	9.5	14.1	14.1	16.3	16.3	12.1	12.1	16.7	16.7	18.9	18.9
CMRN_9g	9.6	9.6	13.1	13.1	15.2	15.2	12.7	12.2	16.4	15.7	18.6	17.8
JFDV_7a	7.5	7.5	11.9	11.9	14.7	14.7	10.1	10.1	14.5	14.5	17.3	17.3
JFDV_9d	6.4	6.4	11.1	11.1	13.5	13.5	9.0	9.0	13.7	13.7	16.1	16.1
VMLN_10b	7.8	6.2	11.2	9.0	13.5	9.0	10.4	6.2	13.8	9.0	16.1	9.0
VMLN_12d	7.8	7.8	11.1	11.1	14.3	14.3	10.4	10.4	13.7	13.7	16.9	16.9
VMLN_6c	7.8	7.8	10.7	10.7	12.7	12.7	10.4	10.4	13.3	13.3	15.3	15.3
VMLN_8e	8.6	8.6	12.1	12.1	14.2	14.2	11.2	11.2	14.7	14.7	16.8	16.8
Evaluation Parameters	Confidence Level:			90%	Levee Design:	No Friction Waves					Levee Overtopping:	No Friction Waves
	Future Relative Sea Level Rise:			2.6 feet		No Friction Waves						

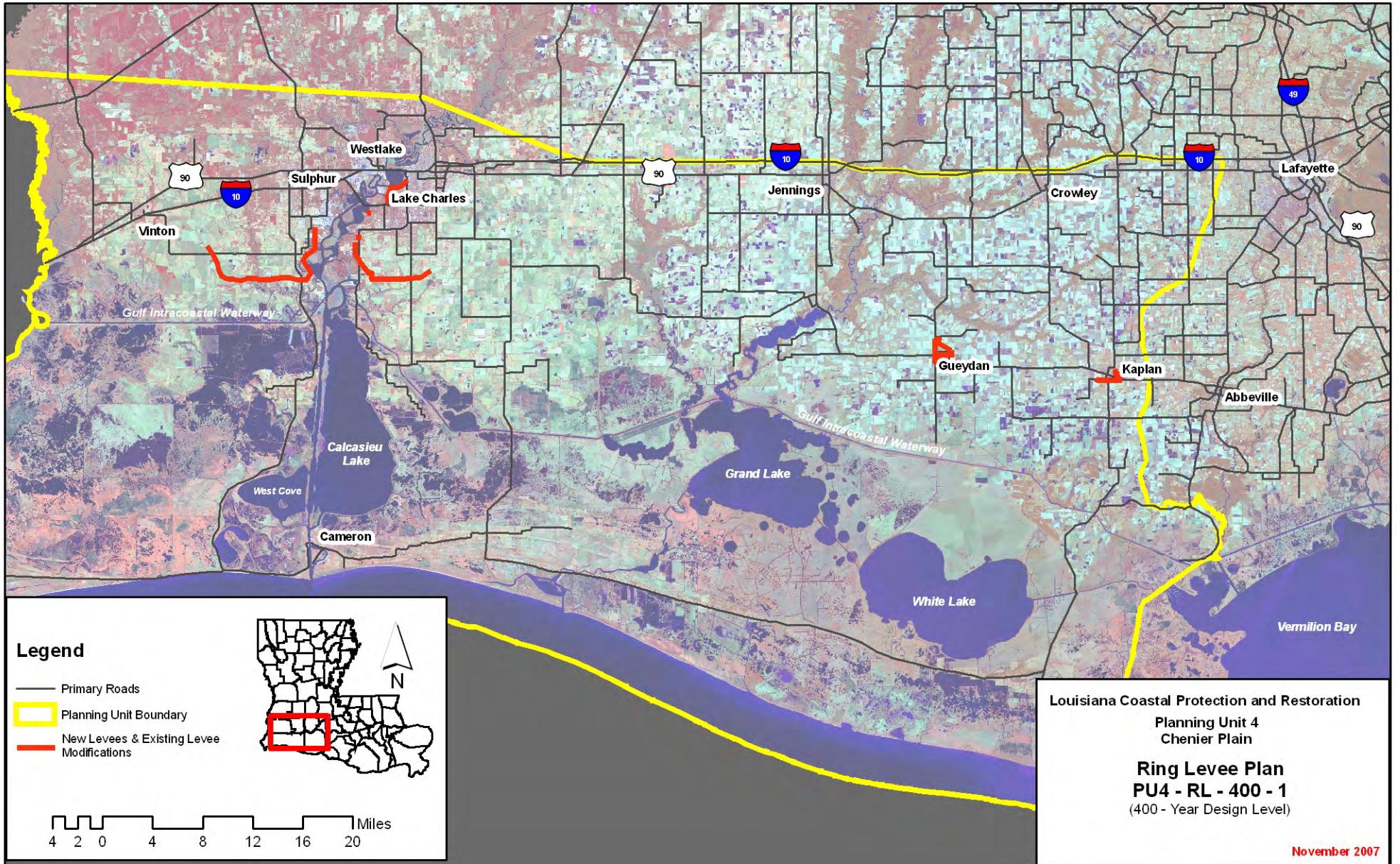
Planning Unit:	4	Alt. No.:	PU4-RL-400-1	Category:	Coastal Restoration + Structural Measures
Alternative Description:	Sustain coastal landscape through restoration. Construct ring levees to the east and west of Lake Charles; construct a series of levees within Lake Charles to separate the river from the land; and construct ring levees around Kaplan and Gueydan to the 400				
Coastal Component:	R1		Nonstructural Component:		None
Structural Component:	See alternative description above.				

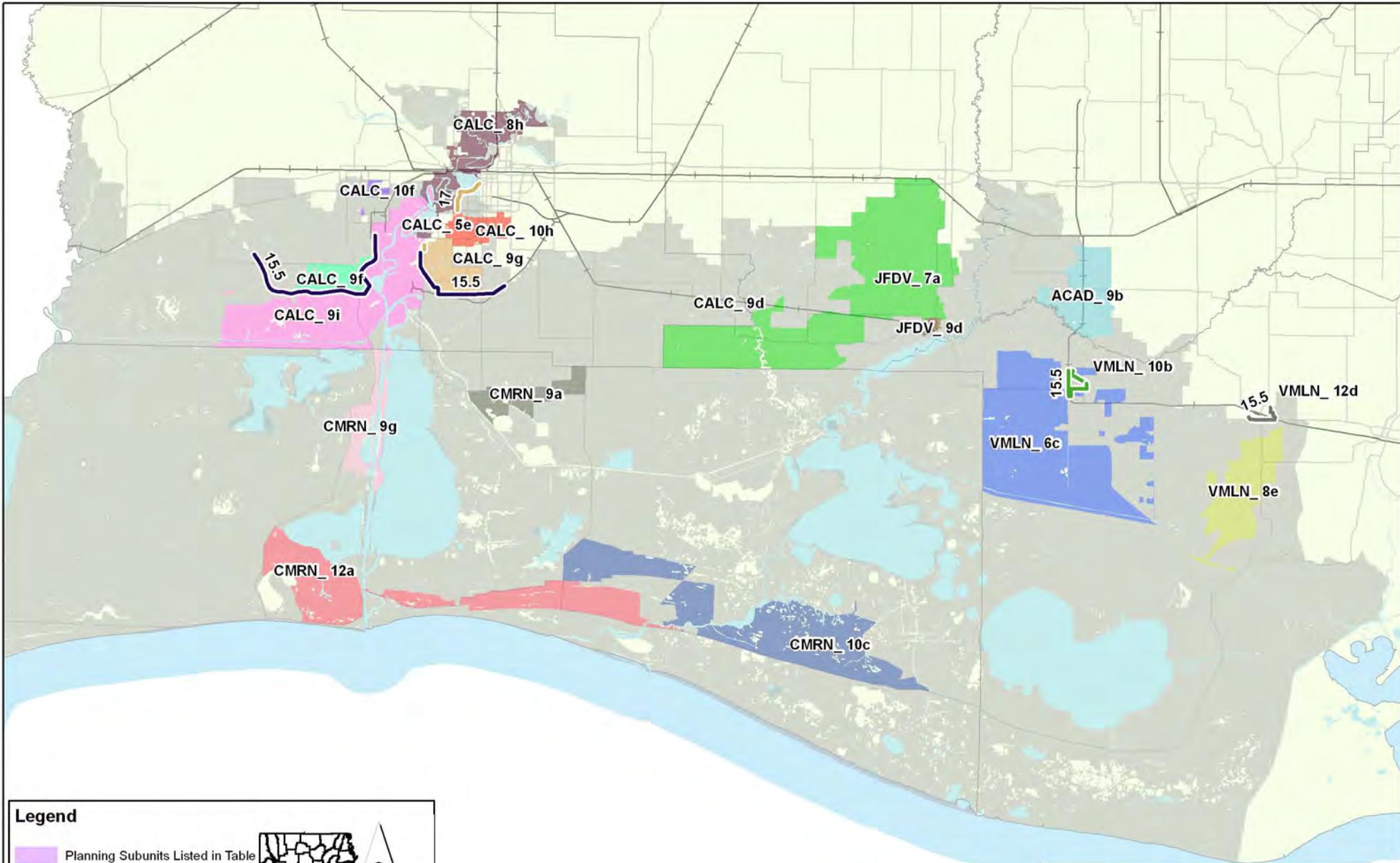
Scenario	Future Conditions (Relative Sea Level Rise (RSLR) and Redevelopment Assumptions)	Uncertainty	Results by Scenario with Uncertainty Bands								
			Life Cycle Cost	Population Impacted	Residual Damages	Gross Regional Output Impacted	Employment Impacted	People's Earned Income Impacted	Archeo. Sites Protected	Historic Properties Protected	Historic Districts Protected
			Ann. Equiv. \$ Millions	Ann. Equiv. #	Ann. Equiv. \$ Millions	Ann. Equiv. \$ Millions	Ann. Equiv. #	Ann. Equiv. \$ Millions	# Sites	# Properties	# Districts
1	Low RSLR High Employment Dispersed Population	High	728	2,843	216	247	716	45	109	1	0
		Mid		3,705	274	275	806	49	85	1	0
		Low		4,590	352	335	978	60	60	1	0
2	High RSLR High Employment Dispersed Population	High	744	3,079	231	266	740	47	109	1	0
		Mid		3,871	296	337	896	58	85	1	0
		Low		4,862	380	410	1,033	66	60	0	0
3	Low RSLR Business-as-Usual Compact Population	High	728	2,687	224	259	744	47	109	1	0
		Mid		3,483	288	286	829	51	85	1	0
		Low		4,257	374	334	993	61	60	1	0
4	High RSLR Business-as-Usual Compact Population	High	744	2,888	242	285	780	51	109	1	0
		Mid		3,652	313	337	908	59	85	1	0
		Low		4,505	422	398	1,041	66	60	0	0

Other Results			Wetlands Created/Protected		Scenario 1	Scenario 2	Scenario 3	Scenario 4
Construction Time (years)			After 50 yrs (% of baseline)		103	101	103	101
Direct Wetland Impacts (acres)			After 100 yrs (% of baseline)		106	100	106	100
Indirect Impacts (unitless)			Present Value of Life Cycle Costs (\$ Millions)					
Spatial Integrity (unitless)			Coastal Component		10,783	11,077	10,783	11,077
Non-Federal Share of Present Value of Life Cycle Costs	Scenario	(\$ Millions)		Nonstructural Component		0	0	0
	1 / 2	5,054	5,165	Structural Component		3,471	3,494	3,471
	3 / 4	5,054	5,165	Total Project		14,254	14,571	14,254

2075 Residual Risk / Damages - Low Uncertainty (\$ Millions)								Planning Unit 4 Structural Plan Ring Levee Alt 400-year Design	
Frequency	Scenario 1		Scenario 2		Scenario 3		Scenario 4		
	No Action	With Proj							
10-year	472	504	725	752	511	566	794	844	
100-year	3,034	2,661	4,142	3,519	3,315	2,865	5,183	4,564	
400-year	6,592	5,007	7,874	5,860	8,001	6,592	9,283	7,485	
1,000-year	10,316	11,014	11,581	11,876	11,241	11,954	12,313	12,666	
2,000-year	12,755	13,725	13,904	14,521	13,422	14,329	14,373	15,029	

Note: Present Value costs and Annual Equivalent numbers are calculated for the period from 2010 to 2075 at common base year 2025 using a 4.7%/8% Federal discount rate. All dollar metrics are based on 2007 price levels.





Legend

- Planning Subunits Listed in Table
- Other Planning Subunits
- Proposed New Alignments**
 - 15 Proposed Levee Alignment and Height
 - Proposed Weir Alignment

Miles
3 1.5 0 3 6 9 12 15



Louisiana Coastal Protection and Restoration
Planning Unit 4
Chenier Plain

Ring Levee Plan
PU4 - RL - 400 - 1

Planning Subunits - Key Map

June 2008

Alternative: PU4-RL-400-1
Water Surface Elevations (feet - NAVD88 2004.65)

Planning Sub Unit	2010 (Base) Conditions						2060 (Future) Conditions					
	100-yr Event		400-year Event		1,000-yr Event		100-yr Event		400-year Event		1,000-yr Event	
	Without Project	With Project	Without Project	With Project	Without Project	With Project	Without Project	With Project	Without Project	With Project	Without Project	With Project
ACAD_9b	7.8	7.8	9.4	9.4	12.2	12.2	10.4	10.4	12.0	12.0	14.8	14.8
CALC_10f	6.0	6.0	8.1	8.1	9.7	9.7	8.6	8.6	10.7	10.7	12.3	12.3
CALC_10h	5.5	10.1	6.1	10.4	9.1	14.9	8.1	10.1	8.7	10.4	11.7	14.9
CALC_5e	7.8	8.0	8.5	8.7	12.1	16.9	10.4	8.0	11.1	8.7	14.7	16.9
CALC_8h	7.8	7.8	10.7	10.7	12.8	12.8	10.4	10.4	13.3	13.3	15.4	15.4
CALC_9d	7.8	7.8	9.7	9.7	13.6	13.6	10.4	10.4	12.3	12.3	16.2	16.2
CALC_9f	8.8	7.2	13.6	7.2	16.0	15.2	11.4	7.2	16.2	7.2	18.6	15.2
CALC_9g	10.9	8.1	14.6	8.1	17.1	15.5	13.5	8.1	17.2	8.1	19.7	15.5
CALC_9i	8.4	8.4	12.8	12.8	15.3	15.3	11.0	11.0	15.4	15.4	17.9	17.9
CMRN_10c	11.1	11.1	14.8	0.0	16.8	16.8	13.8	13.7	17.1	17.4	18.8	19.4
CMRN_12a	13.0	13.0	16.9	16.9	19.0	19.0	15.3	15.6	18.9	19.5	20.7	21.6
CMRN_9a	9.5	9.5	14.1	14.1	16.3	16.3	12.1	12.1	16.7	16.7	18.9	18.9
CMRN_9g	9.6	9.6	13.1	13.1	15.2	15.2	12.7	12.2	16.4	15.7	18.6	17.8
JFDV_7a	7.5	7.5	11.9	11.9	14.7	14.7	10.1	10.1	14.5	14.5	17.3	17.3
JFDV_9d	6.4	6.4	11.1	11.1	13.5	13.5	9.0	9.0	13.7	13.7	16.1	16.1
VMLN_10b	7.8	5.7	11.2	6.7	13.5	15.5	10.4	5.7	13.8	6.7	16.1	15.5
VMLN_12d	7.8	11.3	11.1	12.1	14.3	15.5	10.4	11.3	13.7	12.1	16.9	15.5
VMLN_6c	7.8	7.8	10.7	10.7	12.7	12.7	10.4	10.4	13.3	13.3	15.3	15.3
VMLN_8e	8.6	8.6	12.1	12.1	14.2	14.2	11.2	11.2	14.7	14.7	16.8	16.8
Evaluation Parameters	Confidence Level:			90%	Levee Design: Levee Overtopping:	No Friction Waves				No Friction Waves		
	Future Relative Sea Level Rise:			2.6 feet		No Friction Waves						

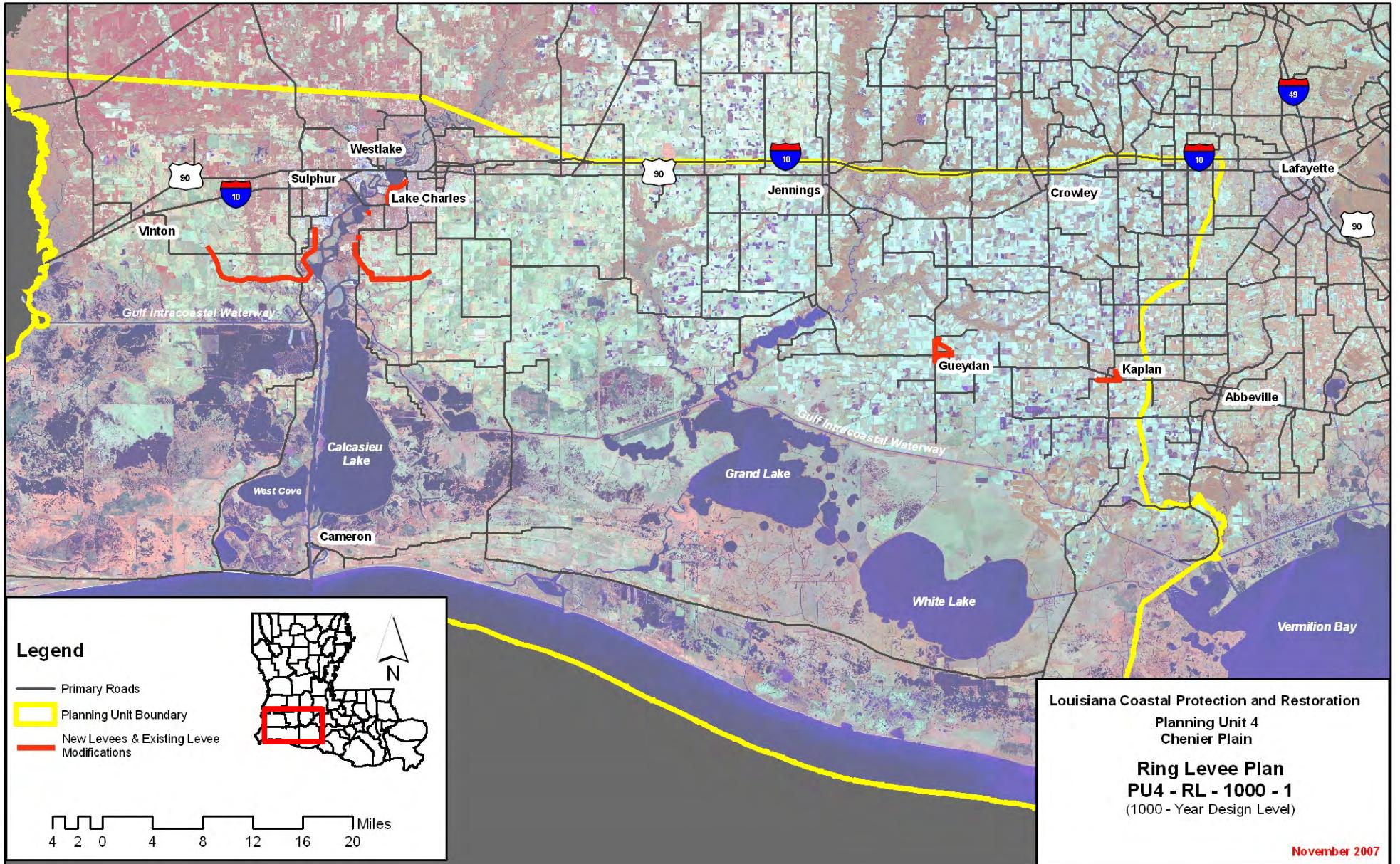
Planning Unit:	4	Alt. No.:	PU4-RL-1000-1	Category:	Coastal Restoration + Structural Measures
Alternative Description:	Sustain coastal landscape through restoration. Construct ring levees to the east and west of Lake Charles; construct a series of levees within Lake Charles to separate the river from the land; and construct ring levees around Kaplan and Gueydan to 1000-ye				
Coastal Component:	R1		Nonstructural Component:		None
Structural Component:	See alternative description above.				

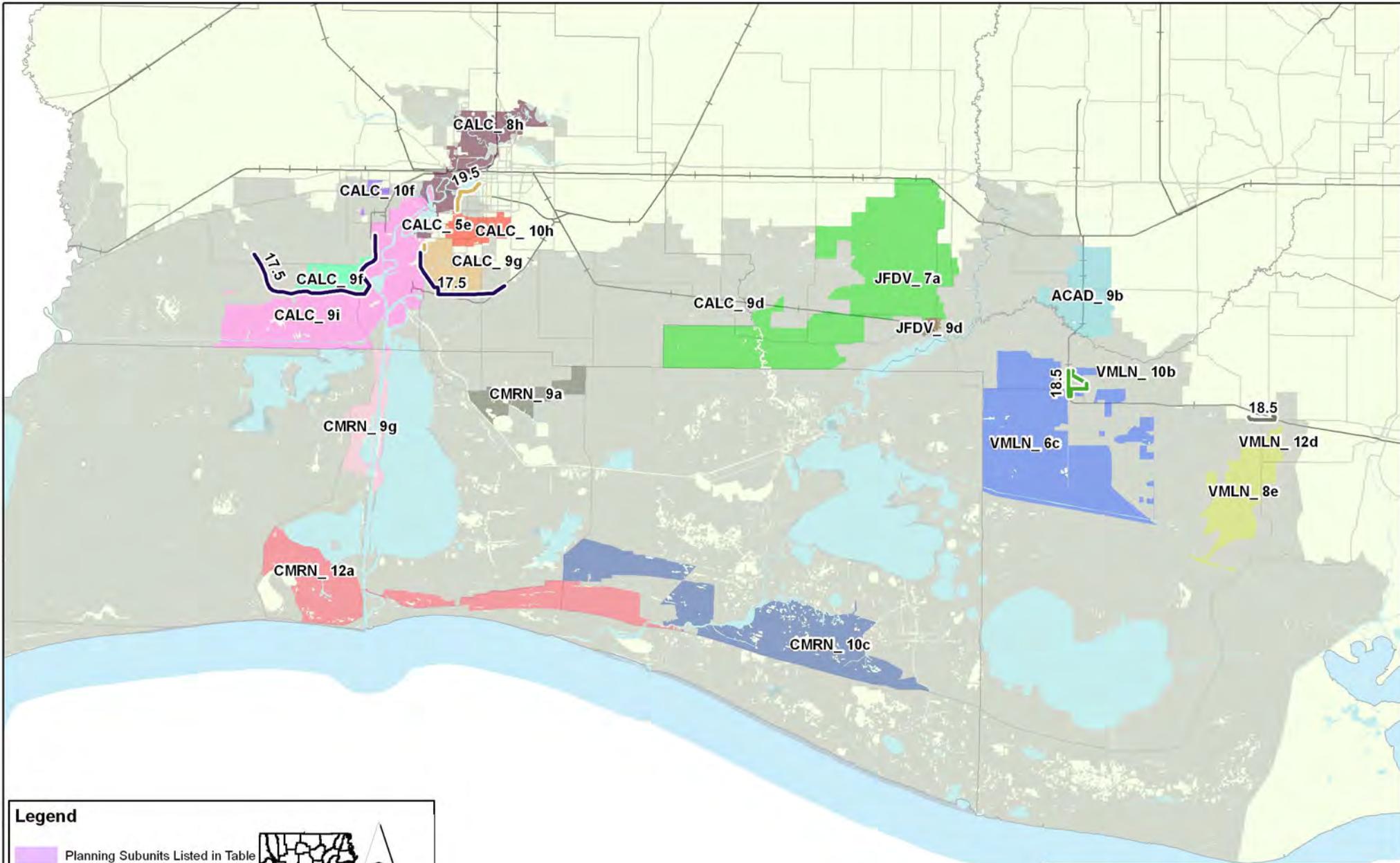
Scenario	Future Conditions (Relative Sea Level Rise (RSLR) and Redevelopment Assumptions)	Uncertainty	Results by Scenario with Uncertainty Bands								
			Life Cycle Cost	Population Impacted	Residual Damages	Gross Regional Output Impacted	Employment Impacted	People's Earned Income Impacted	Archeo. Sites Protected	Historic Properties Protected	Historic Districts Protected
			Ann. Equiv. \$ Millions	Ann. Equiv. #	Ann. Equiv. \$ Millions	Ann. Equiv. \$ Millions	Ann. Equiv. #	Ann. Equiv. \$ Millions	# Sites	# Properties	# Districts
1	Low RSLR High Employment Dispersed Population	High	742	2,814	216	246	713	45	109	1	0
		Mid		3,696	274	274	805	48	85	1	0
		Low		4,539	349	330	958	59	60	1	0
2	High RSLR High Employment Dispersed Population	High	760	3,051	231	264	738	47	109	1	0
		Mid		3,862	297	336	894	58	85	1	0
		Low		4,817	378	405	1,013	65	60	1	0
3	Low RSLR Business-as-Usual Compact Population	High	742	2,663	223	257	740	47	109	1	0
		Mid		3,477	288	285	826	51	85	1	0
		Low		4,213	371	330	972	60	60	1	0
4	High RSLR Business-as-Usual Compact Population	High	760	2,865	241	284	776	51	109	1	0
		Mid		3,464	313	336	908	59	85	1	0
		Low		4,464	419	393	1,020	65	60	1	0

Other Results			Wetlands Created/Protected		Scenario 1	Scenario 2	Scenario 3	Scenario 4
Construction Time (years)			After 50 yrs (% of baseline)		103	101	103	101
Direct Wetland Impacts (acres)			After 100 yrs (% of baseline)		106	100	106	100
Indirect Impacts (unitless)			Present Value of Life Cycle Costs (\$ Millions)					
Spatial Integrity (unitless)			Coastal Component		10,783	11,077	10,783	11,077
Non-Federal Share of Present Value of Life Cycle Costs	Scenario	(\$ Millions)		Nonstructural Component		0	0	0
	1 / 2	5,120	5,249	Structural Component		3,756	3,799	3,756
	3 / 4	5,120	5,249	Total Project		14,540	14,876	14,540

2075 Residual Risk / Damages - Low Uncertainty (\$ Millions)								Planning Unit 4 Structural Plan Ring Levee Alt 1000-year Design	
Frequency	Scenario 1		Scenario 2		Scenario 3		Scenario 4		
	No Action	With Proj							
10-year	472	504	725	752	511	566	794	844	
100-year	3,034	2,661	4,142	3,519	3,315	2,865	5,183	4,564	
400-year	6,592	4,990	7,874	5,843	8,001	6,573	9,283	7,466	
1,000-year	10,316	7,735	11,581	8,597	11,241	8,919	12,313	9,631	
2,000-year	12,755	10,289	13,904	11,084	13,422	11,242	14,373	11,942	

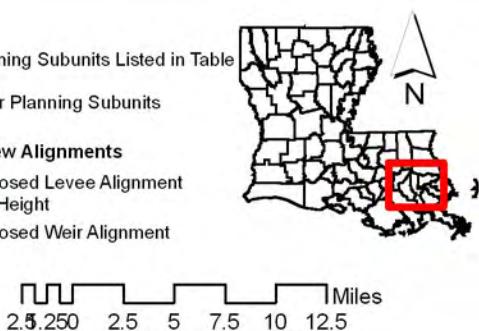
Note: Present Value costs and Annual Equivalent numbers are calculated for the period from 2010 to 2075 at common base year 2025 using a 4.7%/8% Federal discount rate. All dollar metrics are based on 2007 price levels.





Legend

- Planning Subunits Listed in Table
- Other Planning Subunits
- Proposed New Alignments**
 - Proposed Levee Alignment and Height
 - Proposed Weir Alignment



Louisiana Coastal Protection and Restoration
Planning Unit 4
Chenier Plain

Ring Levee Plan
PU4 - RL - 1000 - 1

Planning Subunits - Key Map

Alternative: PU4-RL-1000-1
Water Surface Elevations (feet - NAVD88 2004.65)

Planning Sub Unit	2010 (Base) Conditions						2060 (Future) Conditions					
	100-yr Event		400-year Event		1,000-yr Event		100-yr Event		400-year Event		1,000-yr Event	
	Without Project	With Project	Without Project	With Project	Without Project	With Project	Without Project	With Project	Without Project	With Project	Without Project	With Project
ACAD_9b	7.8	7.8	9.4	9.4	12.2	12.2	10.4	10.4	12.0	12.0	14.8	14.8
CALC_10f	6.0	6.0	8.1	8.1	9.7	9.7	8.6	8.6	10.7	10.7	12.3	12.3
CALC_10h	5.5	10.1	6.1	10.1	9.1	10.3	8.1	10.1	8.7	10.1	11.7	10.3
CALC_5e	7.8	8.0	8.5	8.0	12.1	8.4	10.4	8.0	11.1	8.0	14.7	8.4
CALC_8h	7.8	7.8	10.7	10.7	12.8	12.8	10.4	10.4	13.3	13.3	15.4	15.4
CALC_9d	7.8	7.8	9.7	9.7	13.6	13.6	10.4	10.4	12.3	12.3	16.2	16.2
CALC_9f	8.8	7.2	13.6	7.2	16.0	7.2	11.4	7.2	16.2	7.2	18.6	7.2
CALC_9g	10.9	8.1	14.6	8.1	17.1	8.1	13.5	8.1	17.2	8.1	19.7	8.1
CALC_9i	8.4	8.4	12.8	12.8	15.3	15.3	11.0	11.0	15.4	15.4	17.9	17.9
CMRN_10c	11.1	11.1	14.8	14.8	16.8	16.8	13.8	13.7	17.1	17.4	18.8	19.4
CMRN_12a	13.0	13.0	16.9	16.9	19.0	19.0	15.3	15.6	18.9	19.5	20.7	21.6
CMRN_9a	9.5	9.5	14.1	14.1	16.3	16.3	12.1	12.1	16.7	16.7	18.9	18.9
CMRN_9g	9.6	9.6	13.1	13.1	15.2	15.2	12.7	12.2	16.4	15.7	18.6	17.8
JFDV_7a	7.5	7.5	11.9	11.9	14.7	14.7	10.1	10.1	14.5	14.5	17.3	17.3
JFDV_9d	6.4	6.4	11.1	11.1	13.5	13.5	9.0	9.0	13.7	13.7	16.1	16.1
VMLN_10b	7.8	5.7	11.2	5.7	13.5	7.3	10.4	5.7	13.8	5.7	16.1	7.3
VMLN_12d	7.8	11.3	11.1	11.3	14.3	12.5	10.4	11.3	13.7	11.3	16.9	12.5
VMLN_6c	7.8	7.8	10.7	10.7	12.7	12.7	10.4	10.4	13.3	13.3	15.3	15.3
VMLN_8e	8.6	8.6	12.1	12.1	14.2	14.2	11.2	11.2	14.7	14.7	16.8	16.8
Evaluation Parameters	Confidence Level:			90%	Levee Design: Levee Overtopping:	No Friction Waves				No Friction Waves		
	Future Relative Sea Level Rise:			2.6 feet		No Friction Waves						

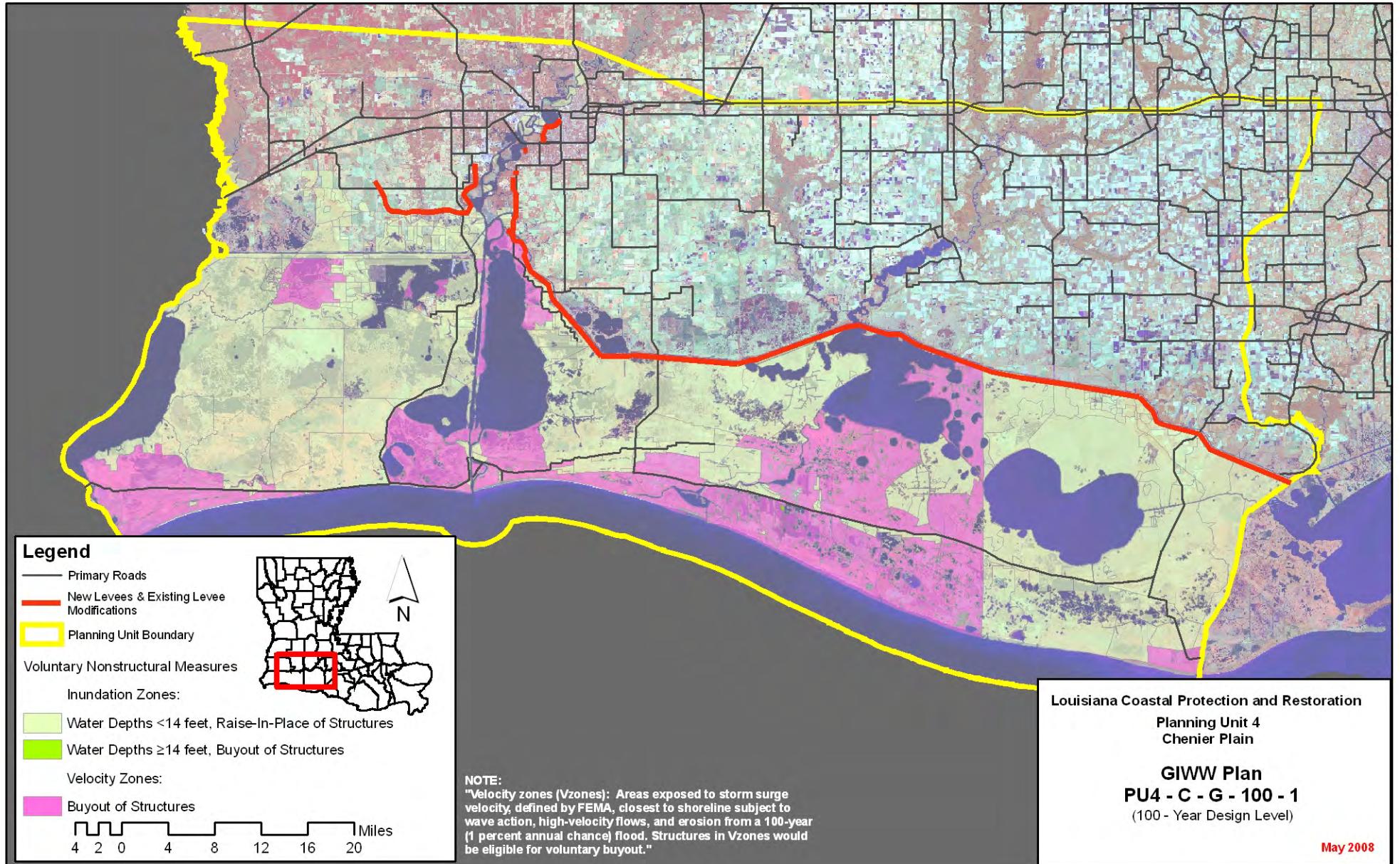
Planning Unit:	4	Alt. No.:	PU4-C-G-100-1	Category:	Comprehensive (Coastal+Structural+Nonstructural)
Alternative Description:	Comprehensive plan--Same coastal and structural measures as Alternative PU4-G-100-1 but with complementary nonstructural measures to reduce residual risk.				
Coastal Component:	R1		Nonstructural Component:		100-yr complementary measures
Structural Component:	Same as Alternative PU4-G-100-1				

Scenario	Future Conditions (Relative Sea Level Rise (RSLR) and Redevelopment Assumptions)	Uncertainty	Results by Scenario with Uncertainty Bands								
			Life Cycle Cost	Population Impacted	Residual Damages	Gross Regional Output Impacted	Employment Impacted	People's Earned Income Impacted	Archeo. Sites Protected	Historic Properties Protected	Historic Districts Protected
			Ann. Equiv. \$ Millions	Ann. Equiv. #	Ann. Equiv. \$ Millions	Ann. Equiv. \$ Millions	Ann. Equiv. #	Ann. Equiv. \$ Millions	# Sites	# Properties	# Districts
1	Low RSLR High Employment Dispersed Population	High	1,237	1,811	98	91	267	17	140	3	0
		Mid		2,506	131	114	344	20	116	3	0
		Low		3,197	182	173	490	31	91	3	0
2	High RSLR High Employment Dispersed Population	High	1,266	1,943	104	102	279	18	140	3	0
		Mid		2,584	142	173	427	29	116	3	0
		Low		3,335	198	240	529	35	91	3	0
3	Low RSLR Business-as-Usual Compact Population	High	1,238	1,702	103	92	273	17	140	3	0
		Mid		2,339	138	114	345	21	116	3	0
		Low		2,980	196	167	496	31	91	3	0
4	High RSLR Business-as-Usual Compact Population	High	1,267	1,815	110	106	289	19	140	3	0
		Mid		2,433	152	163	426	29	116	3	0
		Low		3,116	225	218	524	34	91	3	0

Other Results			Wetlands Created/Protected		Scenario 1	Scenario 2	Scenario 3	Scenario 4
Construction Time (years)			10		After 50 yrs (% of baseline)	103	101	103
Direct Wetland Impacts (acres)			2,200		After 100 yrs (% of baseline)	106	100	106
Indirect Impacts (unitless)			-5		Present Value of Life Cycle Costs (\$ Millions)			
Spatial Integrity (unitless)			0.44		Coastal Component	10,783	11,077	10,783
Non-Federal Share of Present Value of Life Cycle Costs	Scenario	(\$ Millions)		Nonstructural Component		1,451	1,451	1,467
	1 / 2	8,573	8,774	Structural Component		11,989	12,272	11,989
	3 / 4	8,578	8,780	Total Project		24,224	24,801	24,239

2075 Residual Risk / Damages - Low Uncertainty (\$ Millions)								Planning Unit 4 Comprehensive Plan GIWW Alt 100-year Design	
Frequency	Scenario 1		Scenario 2		Scenario 3		Scenario 4		
	No Action	With Proj							
10-year	472	157	725	170	511	181	794	195	
100-year	3,034	520	4,142	996	3,315	529	5,183	1,384	
400-year	6,592	3,172	7,874	3,666	8,001	3,903	9,283	4,418	
1,000-year	10,316	7,198	11,581	7,794	11,241	7,370	12,313	7,936	
2,000-year	12,755	8,213	13,904	8,726	13,422	8,296	14,373	8,745	

Note: Present Value costs and Annual Equivalent numbers are calculated for the period from 2010 to 2075 at common base year 2025 using a 4.7%/8% Federal discount rate. All dollar metrics are based on 2007 price levels.



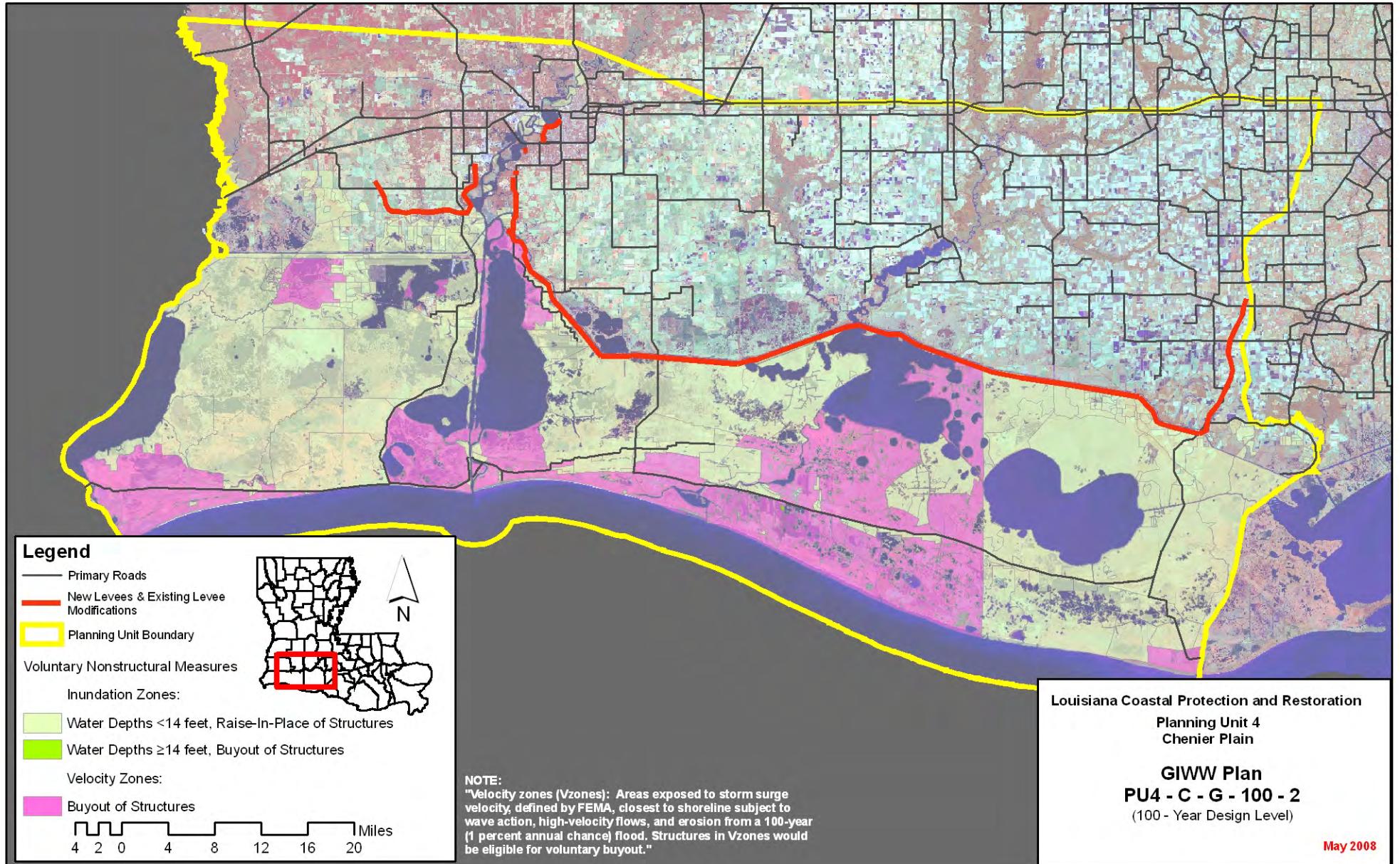
Planning Unit:	4	Alt. No.:	PU4-C-G-100-2	Category:	Comprehensive (Coastal+Structural+Nonstructural)
Alternative Description:	Comprehensive plan--Same coastal and structural measures as Alternative PU4-G-100-2 but with complementary nonstructural measures to reduce residual risk.				
Coastal Component:	R1		Nonstructural Component:		100-yr complementary measures
Structural Component:	Same as Alternative PU4-G-100-2				

Scenario	Future Conditions (Relative Sea Level Rise (RSLR) and Redevelopment Assumptions)	Uncertainty	Results by Scenario with Uncertainty Bands								
			Life Cycle Cost	Population Impacted	Residual Damages	Gross Regional Output Impacted	Employment Impacted	People's Earned Income Impacted	Archeo. Sites Protected	Historic Properties Protected	Historic Districts Protected
			Ann. Equiv. \$ Millions	Ann. Equiv. #	Ann. Equiv. \$ Millions	Ann. Equiv. \$ Millions	Ann. Equiv. #	Ann. Equiv. \$ Millions	# Sites	# Properties	# Districts
1	Low RSLR High Employment Dispersed Population	High	1,226	1,929	109	142	363	26	139	2	0
		Mid		2,629	142	165	445	30	115	0	0
		Low		3,325	194	225	590	41	90	0	0
2	High RSLR High Employment Dispersed Population	High	1,256	2,065	116	153	377	28	139	2	0
		Mid		2,708	154	225	527	39	115	0	0
		Low		3,465	212	291	628	45	90	0	0
3	Low RSLR Business-as-Usual Compact Population	High	1,227	1,794	112	136	354	26	139	2	0
		Mid		2,436	148	159	430	29	115	0	0
		Low		3,081	206	211	580	40	90	0	0
4	High RSLR Business-as-Usual Compact Population	High	1,257	1,909	121	150	371	27	139	2	0
		Mid		2,532	164	207	510	37	115	0	0
		Low		3,217	236	262	608	43	90	0	0

Other Results			Wetlands Created/Protected			Scenario 1	Scenario 2	Scenario 3	Scenario 4
Construction Time (years)			After 50 yrs (% of baseline)			103	101	103	101
Direct Wetland Impacts (acres)			After 100 yrs (% of baseline)			106	100	106	100
Indirect Impacts (unitless)			Present Value of Life Cycle Costs (\$ Millions)						
Spatial Integrity (unitless)			Coastal Component			10,783	11,077	10,783	11,077
Non-Federal Share of Present Value of Life Cycle Costs	Scenario	(\$ Millions)	Nonstructural Component			1,453	1,453	1,468	1,468
	1 / 2	8,503	Structural Component			11,785	12,065	11,785	12,065
	3 / 4	8,509	Total Project			24,021	24,595	24,036	24,611

2075 Residual Risk / Damages - Low Uncertainty (\$ Millions)								Planning Unit 4 Comprehensive Plan GIWW Alt 100-year Design	
Frequency	Scenario 1		Scenario 2		Scenario 3		Scenario 4		
	No Action	With Proj							
	10-year	472	207	725	243	511	224	794	259
100-year	3,034	713	4,142	1,247	3,315	697	5,183	1,596	
400-year	6,592	3,488	7,874	4,003	8,001	4,168	9,283	4,705	
1,000-year	10,316	7,412	11,581	8,019	11,241	7,548	12,313	8,125	
2,000-year	12,755	8,298	13,904	8,819	13,422	8,382	14,373	8,840	

Note: Present Value costs and Annual Equivalent numbers are calculated for the period from 2010 to 2075 at common base year 2025 using a 4.7%/8% Federal discount rate. All dollar metrics are based on 2007 price levels.



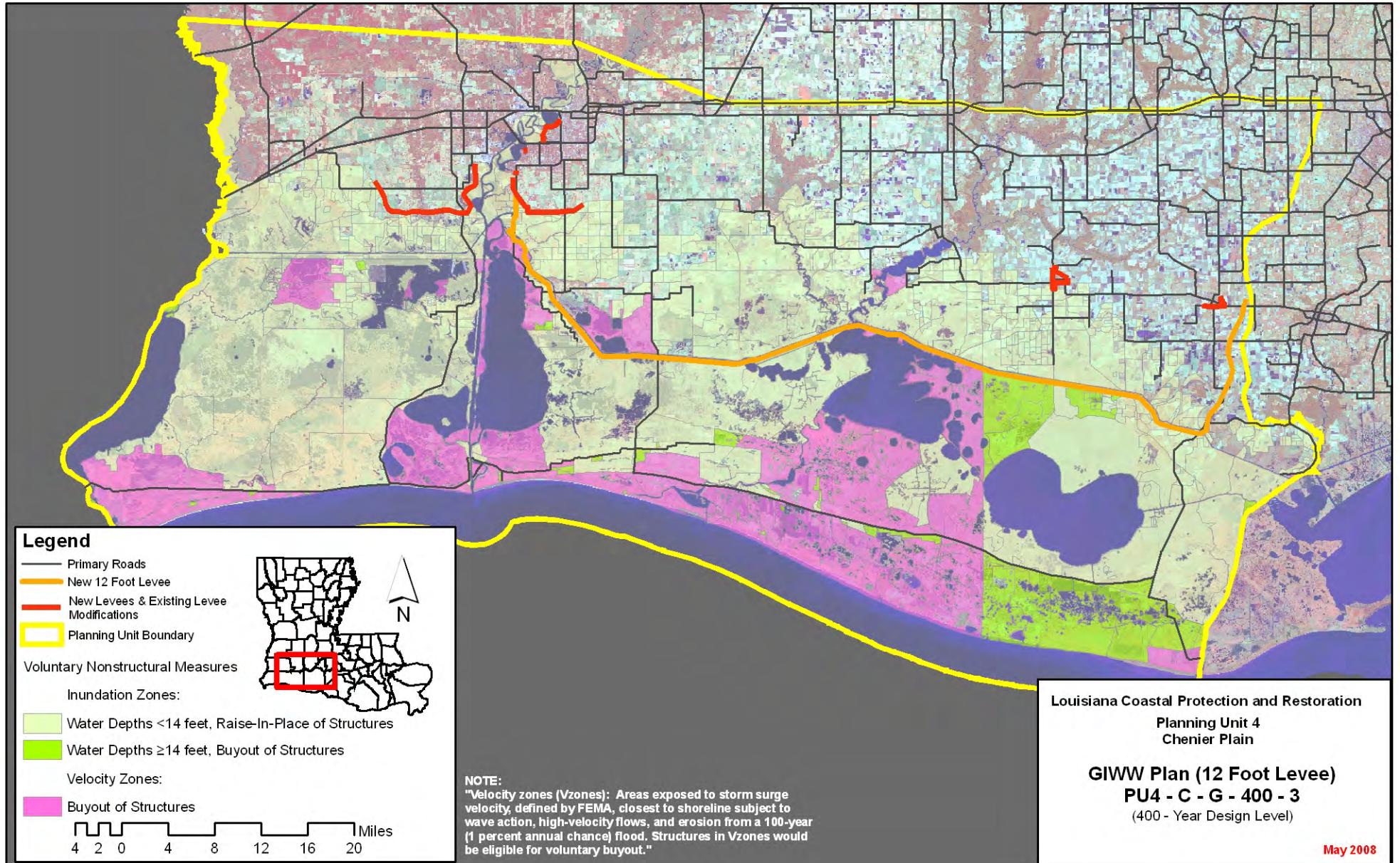
Planning Unit:	4	Alt. No.:	PU4-C-G-400-3	Category:	Comprehensive (Coastal+Structural+Nonstructural)
Alternative Description:	Comprehensive plan--Same coastal and structural measures as Alternative PU4-G-400-3 but with complementary nonstructural measures to reduce residual risk.				
Coastal Component:	R1		Nonstructural Component:		400-yr complementary measures
Structural Component:	Same as Alternative PU4-G-400-3				

Scenario	Future Conditions (Relative Sea Level Rise (RSLR) and Redevelopment Assumptions)	Uncertainty	Results by Scenario with Uncertainty Bands								
			Life Cycle Cost	Population Impacted	Residual Damages	Gross Regional Output Impacted	Employment Impacted	People's Earned Income Impacted	Archeo. Sites Protected	Historic Properties Protected	Historic Districts Protected
			Ann. Equiv. \$ Millions	Ann. Equiv. #	Ann. Equiv. \$ Millions	Ann. Equiv. \$ Millions	Ann. Equiv. #	Ann. Equiv. \$ Millions	# Sites	# Properties	# Districts
1	Low RSLR High Employment Dispersed Population	High	1,226	1,979	100	82	243	16	139	1	0
		Mid		2,599	128	98	295	18	115	1	0
		Low		3,282	174	136	404	25	90	1	0
2	High RSLR High Employment Dispersed Population	High	1,255	2,115	106	95	263	18	139	1	0
		Mid		2,678	137	133	340	24	115	1	0
		Low		3,422	185	167	433	29	90	0	0
3	Low RSLR Business-as-Usual Compact Population	High	1,261	1,829	104	87	256	17	139	1	0
		Mid		2,408	133	102	305	19	115	1	0
		Low		3,035	182	135	417	26	90	1	0
4	High RSLR Business-as-Usual Compact Population	High	1,290	1,944	111	103	280	20	139	1	0
		Mid		2,503	145	132	346	24	115	1	0
		Low		3,171	201	163	446	29	90	0	0

Other Results			Wetlands Created/Protected		Scenario 1	Scenario 2	Scenario 3	Scenario 4
Construction Time (years)			After 50 yrs (% of baseline)		103	101	103	101
Direct Wetland Impacts (acres)			After 100 yrs (% of baseline)		106	100	106	100
Indirect Impacts (unitless)			Present Value of Life Cycle Costs (\$ Millions)					
Spatial Integrity (unitless)			Coastal Component		10,783	11,077	10,783	11,077
Non-Federal Share of Present Value of Life Cycle Costs	Scenario	(\$ Millions)	Nonstructural Component		1,489	1,489	2,187	2,187
	1 / 2	8,507	Structural Component		11,732	12,012	11,732	12,012
	3 / 4	8,751	Total Project		24,004	24,578	24,702	25,276

2075 Residual Risk / Damages - Low Uncertainty (\$ Millions)								Planning Unit 4 Comprehensive Plan GIWW Alt 400-year Design	
Frequency	Scenario 1		Scenario 2		Scenario 3		Scenario 4		
	No Action	With Proj							
	10-year	472	173	725	194	511	194	794	215
100-year	3,034	469	4,142	554	3,315	475	5,183	560	
400-year	6,592	1,384	7,874	2,159	8,001	1,326	9,283	2,359	
1,000-year	10,316	8,519	11,581	9,252	11,241	8,009	12,313	8,792	
2,000-year	12,755	11,032	13,904	11,588	13,422	10,469	14,373	10,981	

Note: Present Value costs and Annual Equivalent numbers are calculated for the period from 2010 to 2075 at common base year 2025 using a 4.7%/8% Federal discount rate. All dollar metrics are based on 2007 price levels.



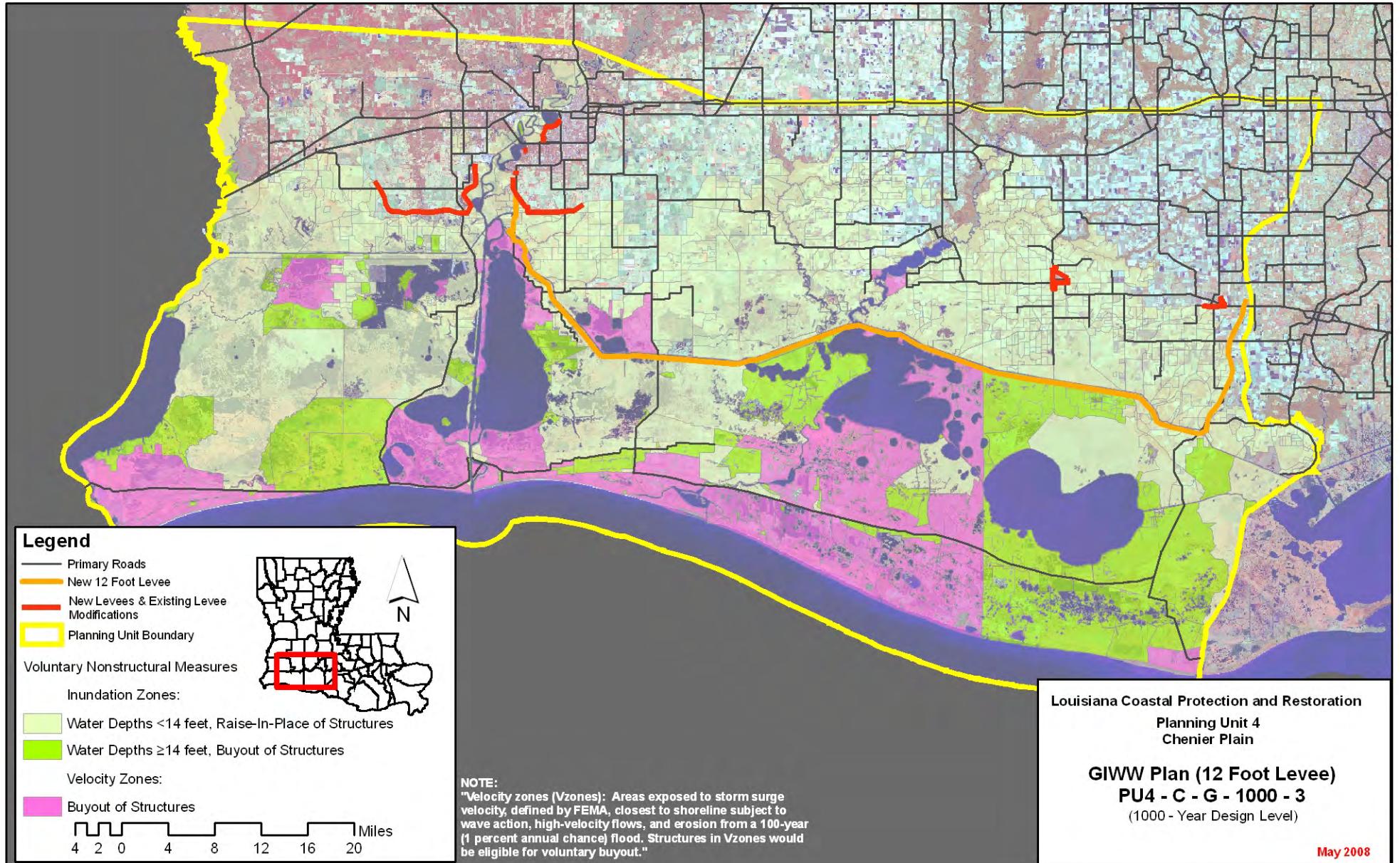
Planning Unit:	4	Alt. No.:	PU4-C-G-1000-3	Category:	Comprehensive (Coastal+Structural+Nonstructural)
Alternative Description:	Comprehensive plan--Same coastal and structural measures as Alternative PU4-G-1000-3 but with complementary nonstructural measures to reduce residual risk.				
Coastal Component:	R1		Nonstructural Component:		1000-yr complementary measures
Structural Component:	Same as Alternative PU4-G-1000-3				

Scenario	Future Conditions (Relative Sea Level Rise (RSLR) and Redevelopment Assumptions)	Uncertainty	Results by Scenario with Uncertainty Bands								
			Life Cycle Cost	Population Impacted	Residual Damages	Gross Regional Output Impacted	Employment Impacted	People's Earned Income Impacted	Archeo. Sites Protected	Historic Properties Protected	Historic Districts Protected
			Ann. Equiv. \$ Millions	Ann. Equiv. #	Ann. Equiv. \$ Millions	Ann. Equiv. \$ Millions	Ann. Equiv. #	Ann. Equiv. \$ Millions	# Sites	# Properties	# Districts
1	Low RSLR High Employment Dispersed Population	High	1,357	1,855	87	78	232	15	139	1	0
		Mid		2,471	114	89	271	16	115	1	0
		Low		3,089	152	112	337	21	90	1	0
2	High RSLR High Employment Dispersed Population	High	1,386	1,989	92	85	244	16	139	1	0
		Mid		2,549	121	112	304	20	115	1	0
		Low		3,228	162	142	362	24	90	1	0
3	Low RSLR Business-as-Usual Compact Population	High	1,358	1,698	92	83	248	16	139	1	0
		Mid		2,273	119	94	285	18	115	1	0
		Low		2,842	161	114	353	22	90	1	0
4	High RSLR Business-as-Usual Compact Population	High	1,388	1,811	98	94	264	18	139	1	0
		Mid		2,367	130	114	315	21	115	1	0
		Low		2,978	178	139	375	24	90	1	0

Other Results			Wetlands Created/Protected		Scenario 1	Scenario 2	Scenario 3	Scenario 4
Construction Time (years)			After 50 yrs (% of baseline)		103	101	103	101
Direct Wetland Impacts (acres)			After 100 yrs (% of baseline)		106	100	106	100
Indirect Impacts (unitless)			Present Value of Life Cycle Costs (\$ Millions)					
Spatial Integrity (unitless)			Coastal Component		10,783	11,077	10,783	11,077
Non-Federal Share of Present Value of Life Cycle Costs	Scenario	(\$ Millions)	Nonstructural Component		3,587	3,587	3,621	3,621
	1 / 2	9,407	Structural Component		12,205	12,488	12,205	12,488
	3 / 4	9,419	Total Project		26,575	27,153	26,610	27,187

2075 Residual Risk / Damages - Low Uncertainty (\$ Millions)								Planning Unit 4 Comprehensive Plan GIWW Alt 1000-year Design	
Frequency	Scenario 1		Scenario 2		Scenario 3		Scenario 4		
	No Action	With Proj							
	10-year	472	122	725	130	511	145	794	153
100-year	3,034	304	4,142	357	3,315	326	5,183	375	
400-year	6,592	864	7,874	1,127	8,001	854	9,283	1,073	
1,000-year	10,316	3,220	11,581	4,471	11,241	2,761	12,313	4,216	
2,000-year	12,755	6,445	13,904	7,378	13,422	6,097	14,373	6,970	

Note: Present Value costs and Annual Equivalent numbers are calculated for the period from 2010 to 2075 at common base year 2025 using a 4.7%/8% Federal discount rate. All dollar metrics are based on 2007 price levels.



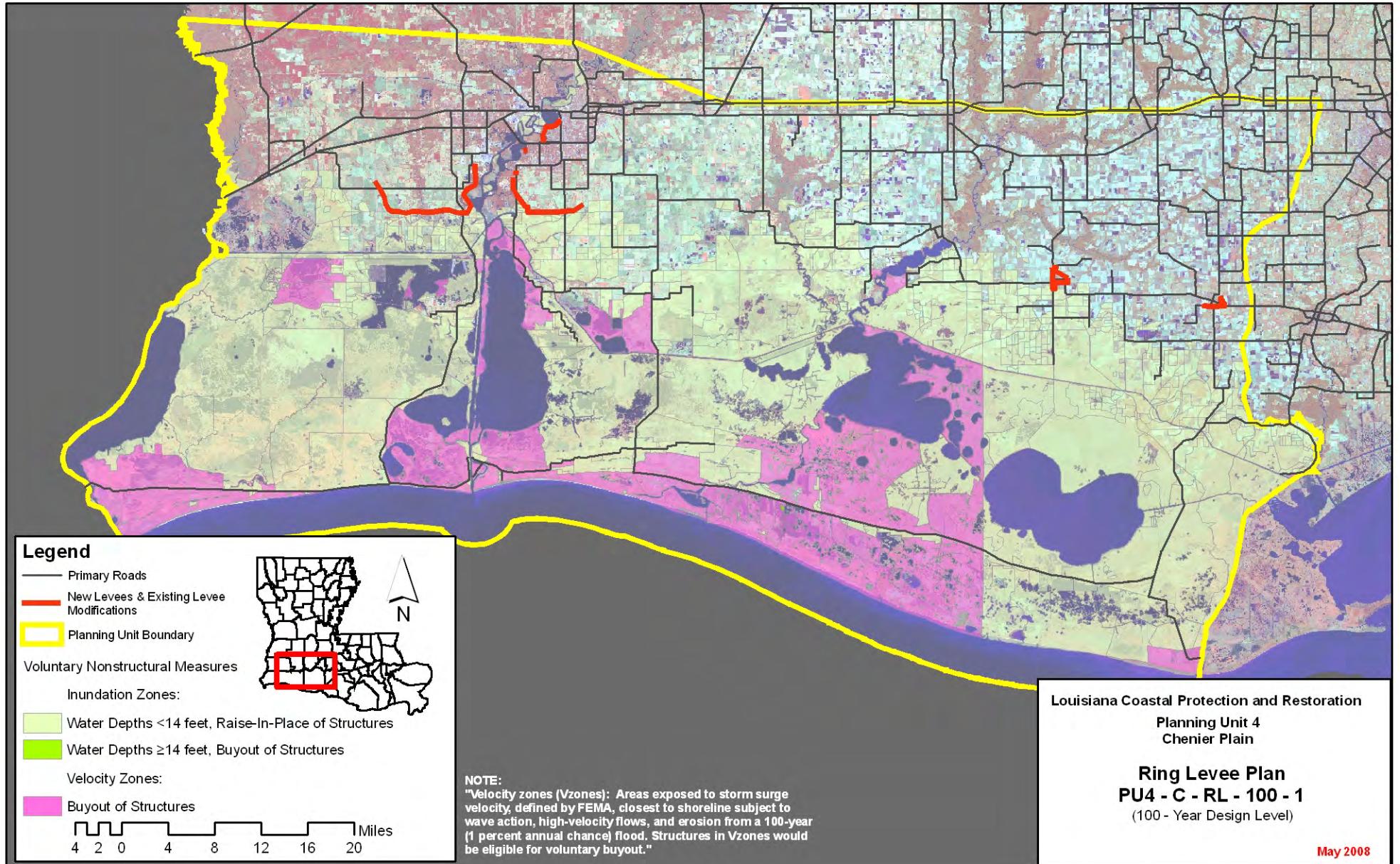
Planning Unit:	4	Alt. No.:	PU4-C-RL-100-1	Category:	Comprehensive (Coastal+Structural+Nonstructural)
Alternative Description:	Comprehensive plan--Same coastal and structural measures as Alternative PU4-RL-100-1 but with complementary nonstructural measures to reduce residual risk.				
Coastal Component:	R1		Nonstructural Component:		100-yr complementary measures
Structural Component:	Same as Alternative PU4-RL-100-1				

Scenario	Future Conditions (Relative Sea Level Rise (RSLR) and Redevelopment Assumptions)	Uncertainty	Results by Scenario with Uncertainty Bands								
			Life Cycle Cost	Population Impacted	Residual Damages	Gross Regional Output Impacted	Employment Impacted	People's Earned Income Impacted	Archeo. Sites Protected	Historic Properties Protected	Historic Districts Protected
			Ann. Equiv. \$ Millions	Ann. Equiv. #	Ann. Equiv. \$ Millions	Ann. Equiv. \$ Millions	Ann. Equiv. #	Ann. Equiv. \$ Millions	# Sites	# Properties	# Districts
1	Low RSLR High Employment Dispersed Population	High	786	2,421	105	101	272	19	109	1	0
		Mid		3,355	144	125	351	23	85	1	0
		Low		4,221	201	189	515	34	60	0	0
2	High RSLR High Employment Dispersed Population	High	802	2,654	115	114	288	20	109	1	0
		Mid		3,516	163	189	450	33	85	0	0
		Low		4,486	230	256	557	39	60	0	0
3	Low RSLR Business-as-Usual Compact Population	High	786	2,238	109	105	288	20	109	1	0
		Mid		3,092	151	131	366	24	85	1	0
		Low		3,855	212	187	534	35	60	0	0
4	High RSLR Business-as-Usual Compact Population	High	802	2,405	120	121	306	22	109	1	0
		Mid		3,241	171	180	456	33	85	0	0
		Low		4,092	253	236	560	38	60	0	0

Other Results			Wetlands Created/Protected		Scenario 1	Scenario 2	Scenario 3	Scenario 4
Construction Time (years)			After 50 yrs (% of baseline)		103	101	103	101
Direct Wetland Impacts (acres)			After 100 yrs (% of baseline)		106	100	106	100
Indirect Impacts (unitless)			Present Value of Life Cycle Costs (\$ Millions)					
Spatial Integrity (unitless)			Coastal Component		10,783	11,077	10,783	11,077
Non-Federal Share of Present Value of Life Cycle Costs	Scenario	(\$ Millions)	Nonstructural Component		1,906	1,906	1,915	1,915
	1 / 2	5,416	5,525	Structural Component		2,702	2,720	2,702
	3 / 4	5,419	5,529	Total Project		15,391	15,703	15,400

2075 Residual Risk / Damages - Low Uncertainty (\$ Millions)								Planning Unit 4 Comprehensive Plan Ring Levee Alt 100-year Design	
Frequency	Scenario 1		Scenario 2		Scenario 3		Scenario 4		
	No Action	With Proj							
10-year	472	183	725	211	511	206	794	235	
100-year	3,034	1,012	4,142	2,062	3,315	993	5,183	2,405	
400-year	6,592	4,739	7,874	5,704	8,001	5,196	9,283	6,088	
1,000-year	10,316	7,608	11,581	8,554	11,241	7,517	12,313	8,247	
2,000-year	12,755	8,928	13,904	9,836	13,422	8,541	14,373	9,254	

Note: Present Value costs and Annual Equivalent numbers are calculated for the period from 2010 to 2075 at common base year 2025 using a 4.7%/8% Federal discount rate. All dollar metrics are based on 2007 price levels.



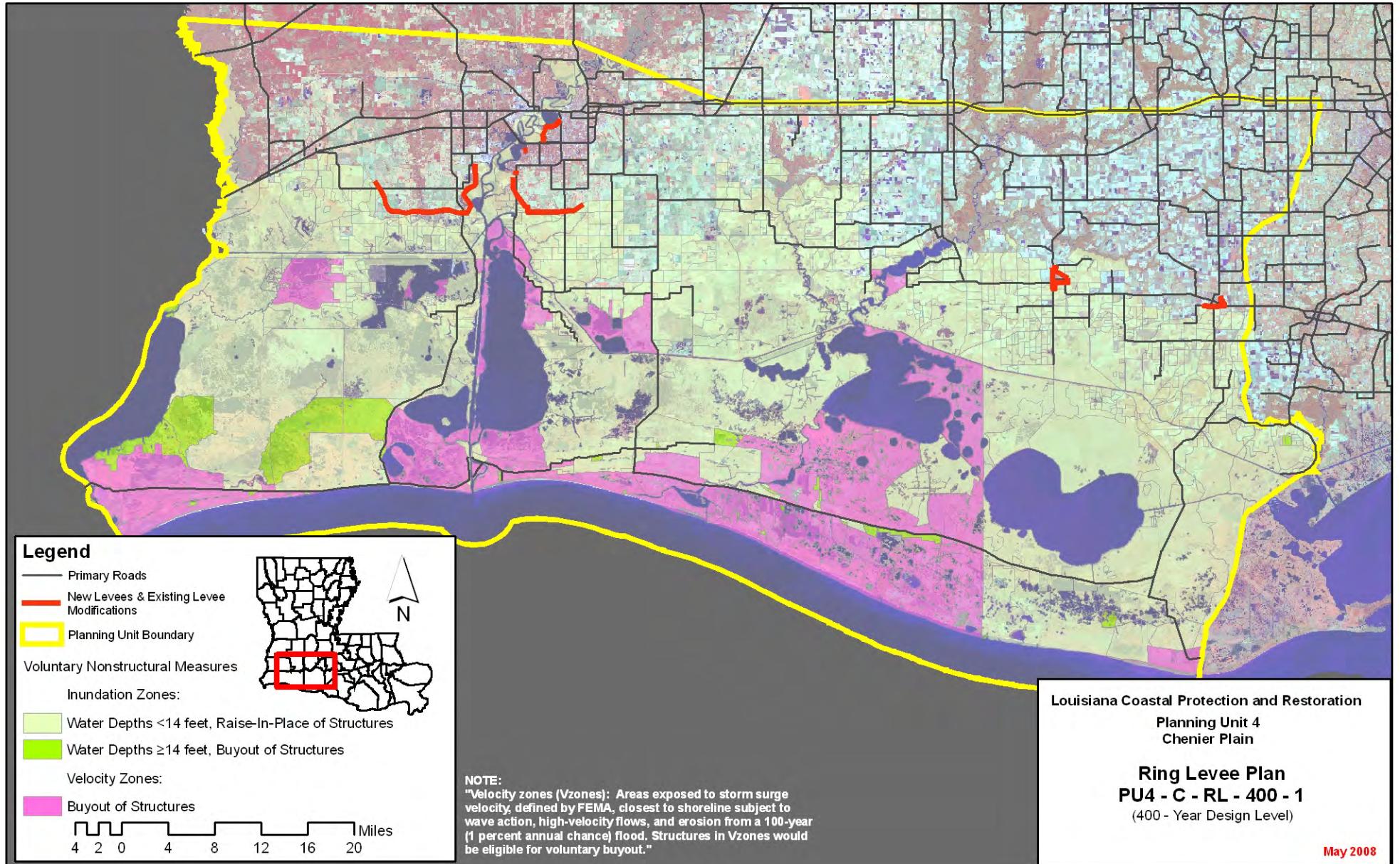
Planning Unit:	4	Alt. No.:	PU4-C-RL-400-1	Category:	Comprehensive (Coastal+Structural+Nonstructural)
Alternative Description:	Comprehensive plan--Same coastal and structural measures as Alternative PU4-RL-400-1 but with complementary nonstructural measures to reduce residual risk.				
Coastal Component:	R1		Nonstructural Component:		400-yr complementary measures
Structural Component:	Same as Alternative PU4-RL-400-1				

Scenario	Future Conditions (Relative Sea Level Rise (RSLR) and Redevelopment Assumptions)	Uncertainty	Results by Scenario with Uncertainty Bands								
			Life Cycle Cost	Population Impacted	Residual Damages	Gross Regional Output Impacted	Employment Impacted	People's Earned Income Impacted	Archeo. Sites Protected	Historic Properties Protected	Historic Districts Protected
			Ann. Equiv. \$ Millions	Ann. Equiv. #	Ann. Equiv. \$ Millions	Ann. Equiv. \$ Millions	Ann. Equiv. #	Ann. Equiv. \$ Millions	# Sites	# Properties	# Districts
1	Low RSLR High Employment Dispersed Population	High	813	2,294	99	78	232	15	109	1	0
		Mid		3,156	128	92	275	17	85	1	0
		Low		4,020	173	132	396	24	109	1	0
2	High RSLR High Employment Dispersed Population	High	829	2,526	106	86	242	16	109	1	0
		Mid		3,315	139	125	319	21	85	1	0
		Low		4,289	189	159	421	27	60	0	0
3	Low RSLR Business-as-Usual Compact Population	High	865	2,122	103	83	246	16	109	1	0
		Mid		2,918	134	97	286	18	85	1	0
		Low		3,672	182	132	404	25	109	1	0
4	High RSLR Business-as-Usual Compact Population	High	881	2,295	110	92	256	17	109	1	0
		Mid		3,077	147	124	326	22	85	1	0
		Low		3,924	204	154	426	27	60	0	0

Other Results			Wetlands Created/Protected		Scenario 1	Scenario 2	Scenario 3	Scenario 4
Construction Time (years)			After 50 yrs (% of baseline)		103	101	103	101
Direct Wetland Impacts (acres)			After 100 yrs (% of baseline)		106	100	106	100
Indirect Impacts (unitless)			Present Value of Life Cycle Costs (\$ Millions)					
Spatial Integrity (unitless)			Coastal Component		10,783	11,077	10,783	11,077
Non-Federal Share of Present Value of Life Cycle Costs	Scenario	(\$ Millions)	Nonstructural Component		1,670	1,670	2,696	2,696
	1 / 2	5,638	5,749	Structural Component		3,471	3,494	3,471
	3 / 4	5,997	6,108	Total Project		15,924	16,241	16,950

2075 Residual Risk / Damages - Low Uncertainty (\$ Millions)								Planning Unit 4 Comprehensive Plan Ring Levee Alt 400-year Design	
Frequency	Scenario 1		Scenario 2		Scenario 3		Scenario 4		
	No Action	With Proj							
10-year	472	175	725	196	511	199	794	220	
100-year	3,034	502	4,142	654	3,315	530	5,183	666	
400-year	6,592	1,585	7,874	3,182	8,001	1,512	9,283	3,321	
1,000-year	10,316	8,801	11,581	10,117	11,241	8,228	12,313	9,394	
2,000-year	12,755	12,031	13,904	13,034	13,422	11,133	14,373	11,933	

Note: Present Value costs and Annual Equivalent numbers are calculated for the period from 2010 to 2075 at common base year 2025 using a 4.7%/8% Federal discount rate. All dollar metrics are based on 2007 price levels.



Planning Unit:	4	Alt. No.:	PU4-C-RL-1000-1	Category:	Comprehensive (Coastal+Structural+Nonstructural)
Alternative Description:	Comprehensive plan--Same coastal and structural measures as Alternative PU4-RL-1000-1 but with complementary nonstructural measures to reduce residual risk.				
Coastal Component:	R1		Nonstructural Component:		1000-yr complementary measures
Structural Component:	Same as Alternative PU4-RL-1000-1				

Scenario	Future Conditions (Relative Sea Level Rise (RSLR) and Redevelopment Assumptions)	Uncertainty	Results by Scenario with Uncertainty Bands								
			Life Cycle Cost	Population Impacted	Residual Damages	Gross Regional Output Impacted	Employment Impacted	People's Earned Income Impacted	Archeo. Sites Protected	Historic Properties Protected	Historic Districts Protected
			Ann. Equiv. \$ Millions	Ann. Equiv. #	Ann. Equiv. \$ Millions	Ann. Equiv. \$ Millions	Ann. Equiv. #	Ann. Equiv. \$ Millions	# Sites	# Properties	# Districts
1	Low RSLR High Employment Dispersed Population	High	921	2,145	94	76	227	14	109	1	0
		Mid		3,027	123	86	260	16	85	1	0
		Low		3,849	161	111	338	21	60	1	0
2	High RSLR High Employment Dispersed Population	High	938	2,377	101	82	236	15	109	1	0
		Mid		3,187	133	109	296	19	85	1	0
		Low		4,124	175	139	366	24	60	1	0
3	Low RSLR Business-as-Usual Compact Population	High	929	1,972	98	81	240	15	109	1	0
		Mid		2,786	129	91	273	17	85	1	0
		Low		3,502	169	113	346	21	60	1	0
4	High RSLR Business-as-Usual Compact Population	High	946	2,220	107	94	262	17	109	1	0
		Mid		2,959	140	114	312	21	85	1	0
		Low		3,728	187	139	370	24	60	1	0

Other Results			Wetlands Created/Protected		Scenario 1	Scenario 2	Scenario 3	Scenario 4
Construction Time (years)			After 50 yrs (% of baseline)		103	101	103	101
Direct Wetland Impacts (acres)			After 100 yrs (% of baseline)		106	100	106	100
Indirect Impacts (unitless)			Present Value of Life Cycle Costs (\$ Millions)					
Spatial Integrity (unitless)			Coastal Component		10,783	11,077	10,783	11,077
Non-Federal Share of Present Value of Life Cycle Costs	Scenario	(\$ Millions)	Nonstructural Component		3,509	3,509	3,651	3,651
	1 / 2	6,348	Structural Component		3,756	3,799	3,756	3,799
	3 / 4	6,398	Total Project		18,049	18,385	18,191	18,528

2075 Residual Risk / Damages - Low Uncertainty (\$ Millions)								Planning Unit 4 Comprehensive Plan Ring Levee Alt 1000-year Design	
Frequency	Scenario 1		Scenario 2		Scenario 3		Scenario 4		
	No Action	With Proj							
10-year	472	154	725	174	511	176	794	197	
100-year	3,034	456	4,142	538	3,315	477	5,183	557	
400-year	6,592	836	7,874	1,268	8,001	761	9,283	1,090	
1,000-year	10,316	2,456	11,581	4,572	11,241	2,007	12,313	4,148	
2,000-year	12,755	6,837	13,904	8,526	13,422	6,171	14,373	7,581	

Note: Present Value costs and Annual Equivalent numbers are calculated for the period from 2010 to 2075 at common base year 2025 using a 4.7%/8% Federal discount rate. All dollar metrics are based on 2007 price levels.

