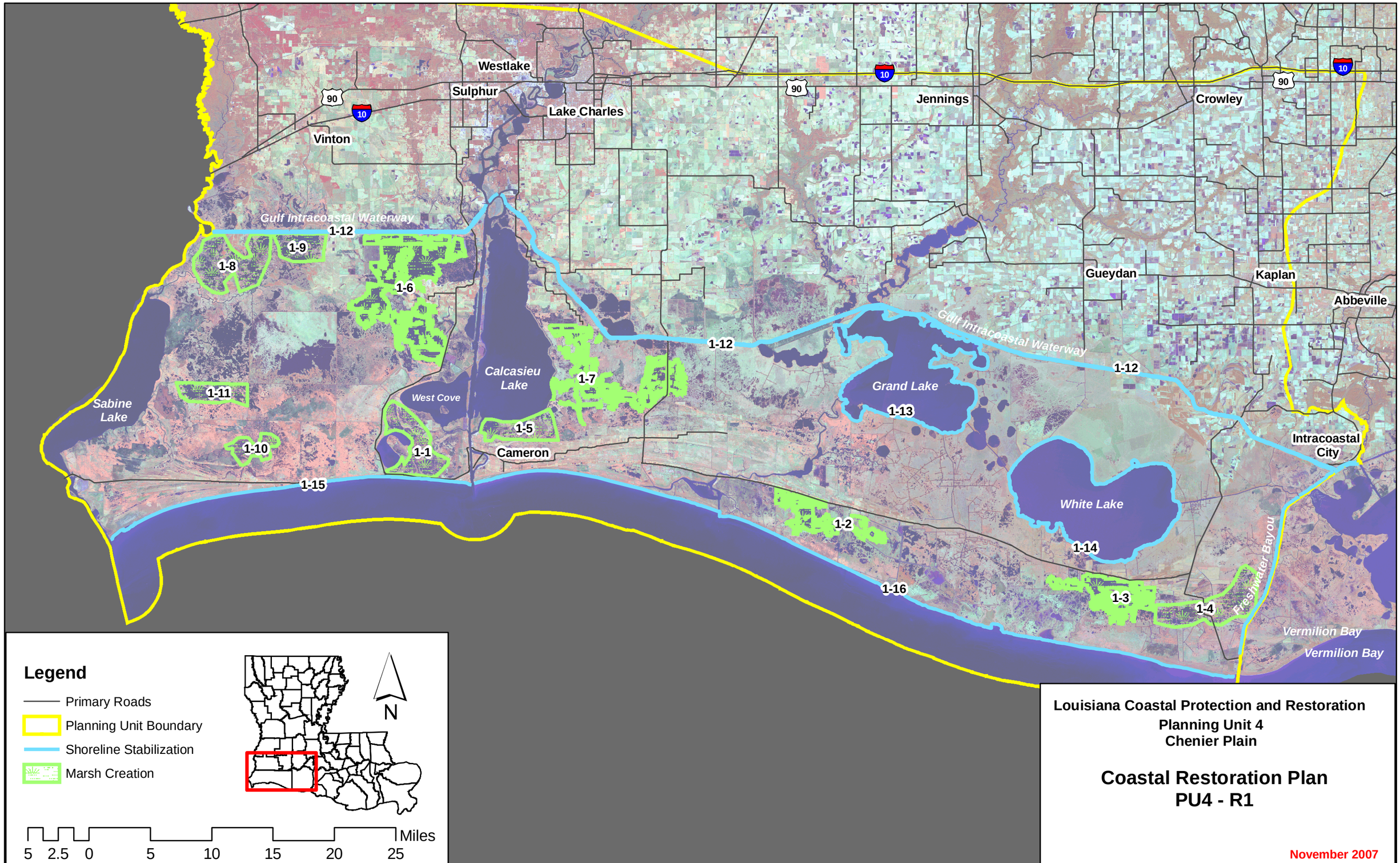
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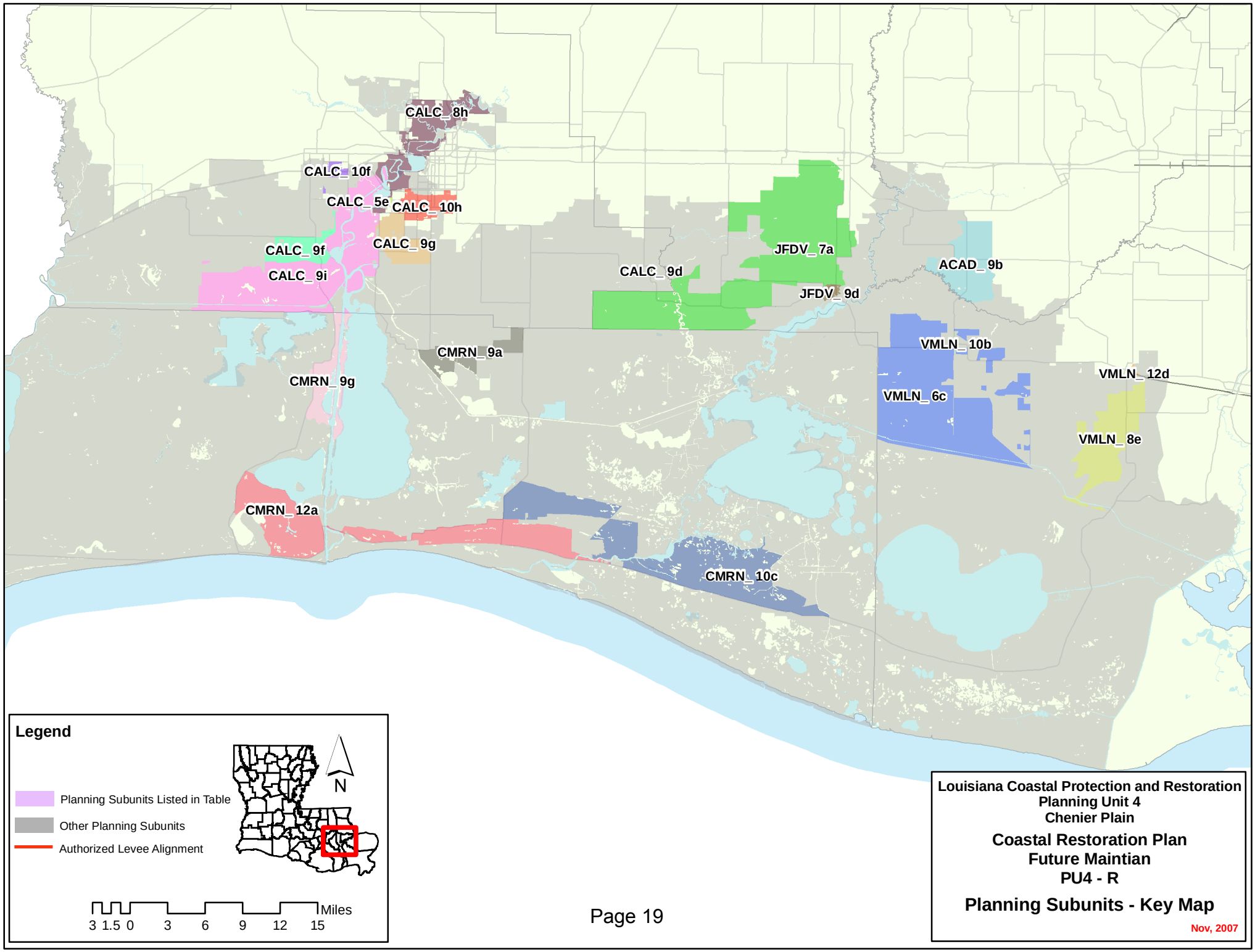
Sulphur
Lake Charles
Vinton
Jennings
Crowley
Gueydan
Kaplan
Abbeville
Intracoastal City
Cameron
Gulf Intracoastal Waterway
Gulf Intracoastal Waterway
Sabine Lake
Calcasieu Lake
West Cove
Grand Lake
White Lake
Freshwater Bayou
Vermilion Bay
Vermilion Bay
1-1
1-2
1-3
1-4
1-5
1-6
1-7
1-8
1-9
1-10
1-11
1-12
1-12
1-12
1-13
1-14
1-15
1-16
90
10
Legend
Primary Roads
Planning Unit Boundary
Shoreline Stabilization
Marsh Creation
N
Miles
5 2.5 0 5 10 15 20 25
Louisiana Coastal Protection and Restoration
Planning Unit 4
Chenier Plain
Coastal Restoration Plan
PU4 - R1
November 2007


CALC_ 8h
CALC_ 10f
CALC_ 5e
CALC_ 10h
CALC_ 9g
CALC_ 9f
CALC_ 9i
CALC_ 9d
JFDV_ 7a
JFDV_ 9d
ACAD_ 9b
CMRN_ 9a
CMRN_ 9g
VMLN_ 10b
VMLN_ 12d
VMLN_ 6c
VMLN_ 8e
CMRN_ 12a
CMRN_ 10c
Legend
Planning Subunits Listed in Table
Other Planning Subunits
Authorized Levee Alignment
N
Miles
3 1.5 0 3 6 9 12 15
Louisiana Coastal Protection and Restoration
Planning Unit 4
Chenier Plain
Coastal Restoration Plan
Future Maintian
PU4 - R
Planning Subunits - Key Map
Nov, 2007

Alternative: PU4-R1
Water Surface Elevations (feet - NAVD88 2004.65)

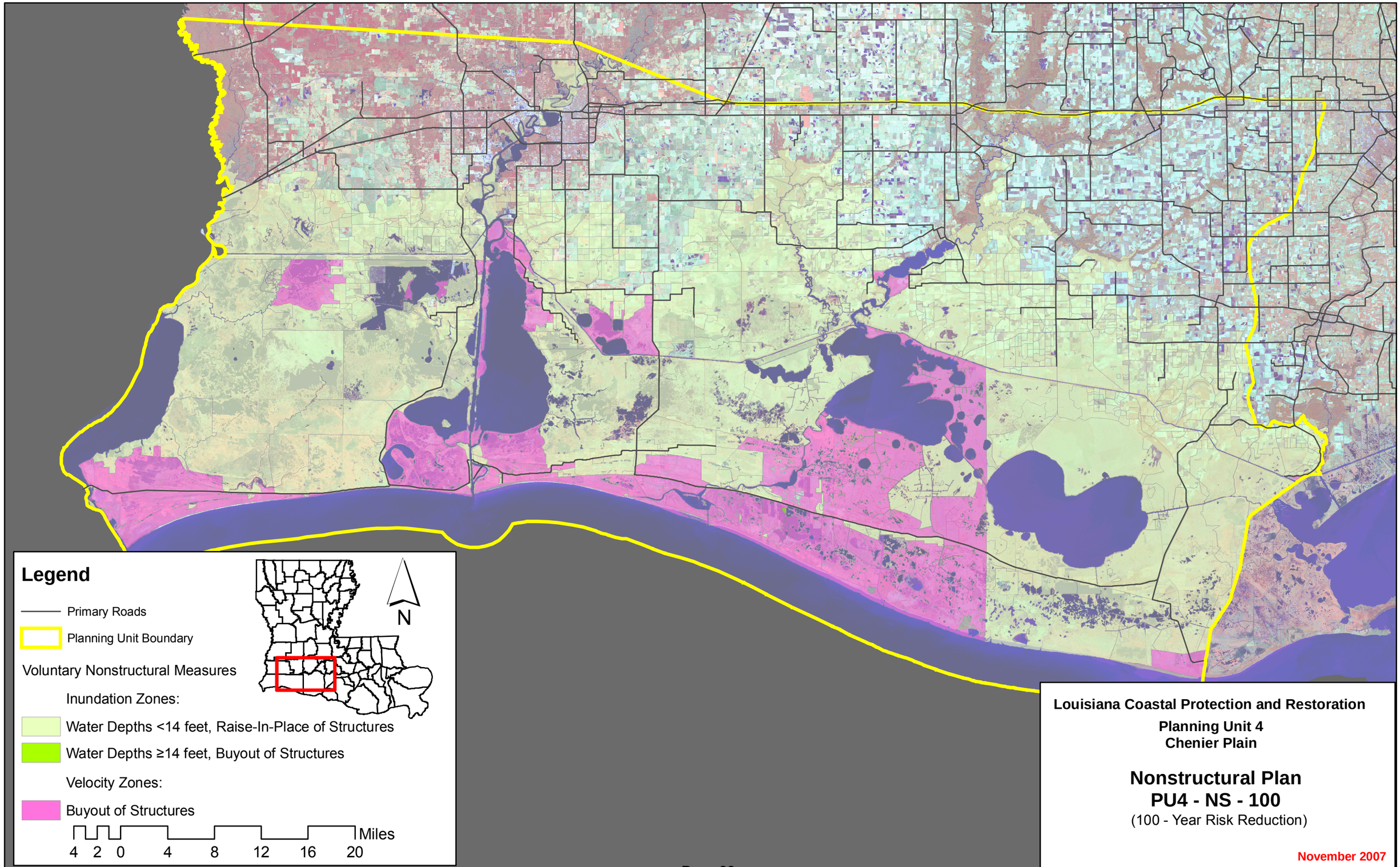
Planning Sub Unit	2010 (Base) Conditions						2060 (Future) Conditions					
	100-yr Event		400-year Event		1,000-yr Event		100-yr Event		400-year Event		1,000-yr Event	
	Without Project	With Project	Without Project	With Project	Without Project	With Project	Without Project	With Project	Without Project	With Project	Without Project	With Project
ACAD_ 9b	7.8	7.8	9.4	9.4	12.2	12.2	10.4	10.4	14.4	12.0	17.4	14.8
CALC_ 10f	7.8	7.8	7.8	7.8	7.9	7.9	10.4	10.4	10.4	10.4	12.9	10.5
CALC_ 10h	7.8	7.8	7.8	7.8	8.5	8.5	10.6	10.4	12.4	10.4	13.5	11.1
CALC_ 5e	7.8	7.8	8.5	8.5	12.1	12.1	10.4	10.4	13.6	11.1	17.1	14.7
CALC_ 8h	7.8	7.8	10.7	10.7	12.8	12.8	12.3	10.4	15.8	13.3	17.8	15.4
CALC_ 9d	7.8	7.8	9.7	9.7	13.6	13.6	10.4	10.4	13.9	12.3	17.3	16.2
CALC_ 9f	8.8	8.8	13.6	13.6	16.0	16.0	13.8	16.4	18.7	21.3	21.0	23.6
CALC_ 9g	10.9	10.9	14.6	14.6	17.1	17.1	13.9	13.5	20.4	17.2	24.1	19.7
CALC_ 9i	8.4	8.4	12.8	12.8	15.3	15.3	13.4	11.0	17.9	15.4	20.4	17.9
CMRN_ 10c	11.1	11.1	14.8	14.8	16.8	16.8	13.4	13.7	17.4	17.4	19.3	19.4
CMRN_ 12a	13.0	13.0	16.9	16.9	19.0	19.0	16.7	15.6	20.5	19.5	22.5	21.6
CMRN_ 9a	9.5	9.5	14.1	14.1	16.3	16.3	14.0	12.1	18.3	16.7	20.5	18.9
CMRN_ 9g	9.6	9.6	13.1	13.1	15.2	15.2	12.2	12.2	16.1	15.7	17.8	17.8
JFDV_ 7a	7.8	7.8	7.8	7.8	7.8	7.8	10.4	10.4	10.4	10.4	10.4	10.4
JFDV_ 9d	7.8	7.8	7.8	7.8	9.0	9.0	10.4	10.4	10.9	10.4	12.4	11.6
VMLN_ 10b	7.8	7.8	11.2	11.2	13.5	13.5	10.4	10.4	14.6	13.8	17.0	16.1
VMLN_ 12d	7.8	7.8	11.1	11.1	14.3	14.3	10.4	10.4	15.0	13.7	18.6	16.9
VMLN_ 6c	7.8	7.8	10.7	10.7	12.7	12.7	11.6	10.4	15.7	13.3	18.0	15.3
VMLN_ 8e	8.6	8.6	12.1	12.1	14.2	14.2	12.2	11.2	16.0	14.7	18.5	16.8

Evaluation Parameters					
	Confidence Level:	90%	Levee Design:	No Friction Waves	
	Future Sea Level Rise:	High	Levee Overtopping:	No Friction Waves	

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:	See alternative description.
Structural Component:	No new levees or increases in risk reduction level to existing levees.				

		Metric Results by Scenario with Uncertainty Bands								
		Life-cycle Cost	Resident Population Impacted	Residual Damages	Gross Regional Output Impacted	Employment Impacted	People's Earned Income Impacted	Archeo. Sites Protected	Historic Properties Protected	Historic Districts Protected
		$ Billions	Ann. Equiv. #	Ann. Equiv ($ 1000's)	Ann. Equiv ($ 1000's)	Ann. Equiv #	Ann. Equiv ($ 1000's)	# Sites	# Properties	# Districts
Scenario 1	Low		3,251	151,333	95,385	295	15,911	29	0	0
	Mean	13.44	5,802	251,818	142,445	448	23,332	33	0	0
	High		7,476	367,448	269,045	692	38,488	37	1	0
Scenario 2	Low		3,462	158,035	101,136	307	17,042	29	0	0
	Mean	13.74	6,120	283,408	248,494	602	35,023	33	0	0
	High		7,990	415,009	350,342	857	55,420	37	1	0
Scenario 3	Low		3,045	146,457	93,283	291	15,559	29	0	0
	Mean	13.43	5,315	240,591	139,253	438	22,573	33	0	0
	High		6,545	342,841	248,658	669	36,941	37	1	0
Scenario 4	Low		3,225	152,511	99,959	305	16,815	29	0	0
	Mean	13.73	5,511	267,618	230,724	586	33,764	33	0	0
	High		6,919	381,450	315,405	794	49,991	37	1	0

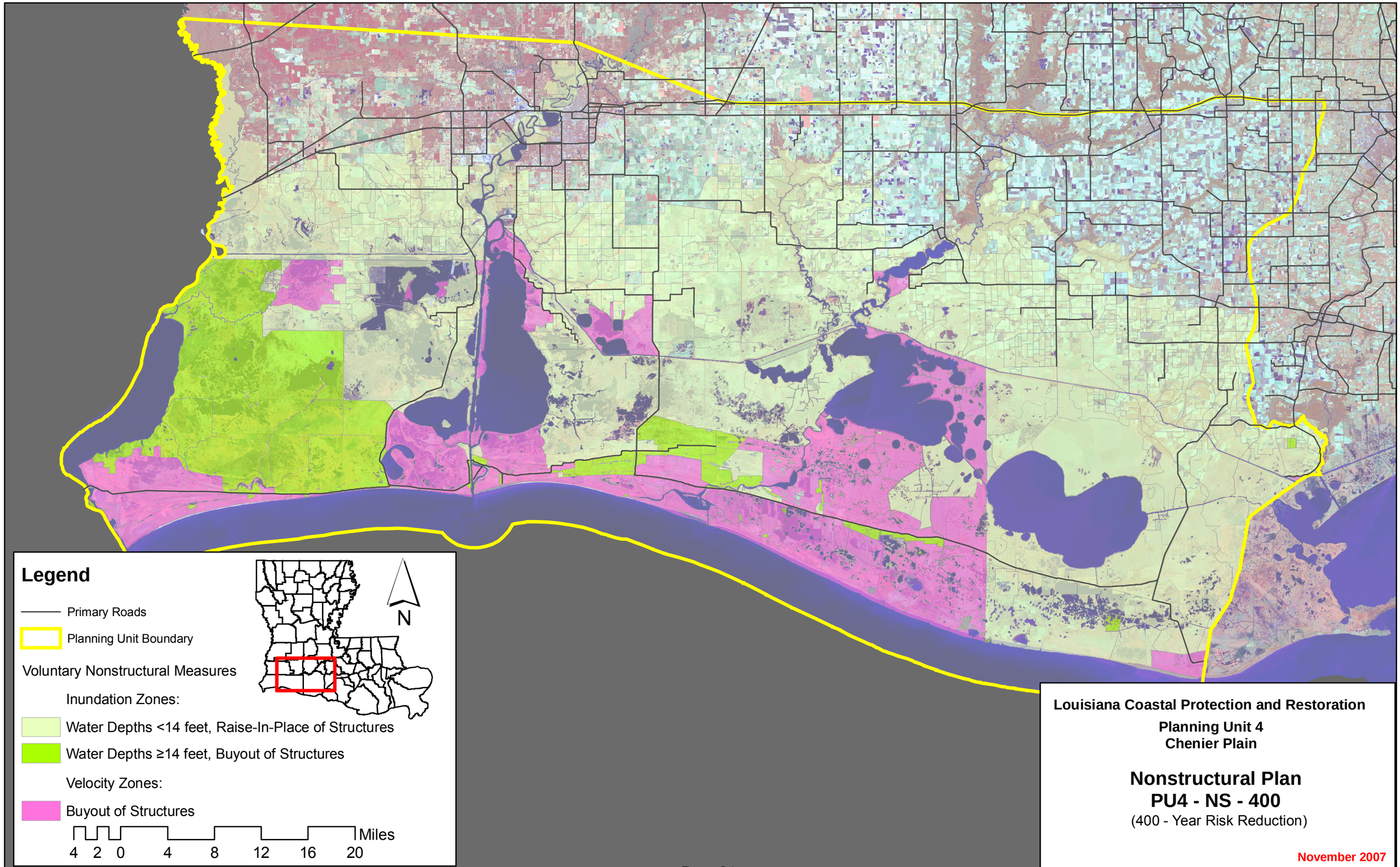
Other Metric Results							
Construction Time (years)	15	Wetlands Created/ Protected (acres)	Scen 1&3	Scen 2&4	PV Cost of NS Comp ($ Billions)	Scen 1&2	Scen 3&4
Direct Wetland Impacts (acres)	0		45,684	45,618		2.66	2.65
Indirect Impacts	N/A	PV Cost of Coastal Component ($ Billions)	10.78	11.08			
Spatial Integrity	0.575						
		PV Cost of Structural Component ($ Billions)	N/A	N/A			


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
Miles
4 2 0 4 8 12 16 20
N
Louisiana Coastal Protection and Restoration
Planning Unit 4
Chenier Plain
Nonstructural Plan
PU4 - NS - 100
(100 - Year Risk Reduction)
November 2007

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:	See alternative description.
Structural Component:	No new levees or increases in risk reduction level to existing levees.				

		Metric Results by Scenario with Uncertainty Bands								
		Life-cycle Cost	Resident Population Impacted	Residual Damages	Gross Regional Output Impacted	Employment Impacted	People's Earned Income Impacted	Archeo. Sites Protected	Historic Properties Protected	Historic Districts Protected
		$ Billions	Ann. Equiv. #	Ann. Equiv ($ 1000's)	Ann. Equiv ($ 1000's)	Ann. Equiv #	Ann. Equiv ($ 1000's)	# Sites	# Properties	# Districts
Scenario 1	Low		3,001	137,998	70,796	254	12,068	29	0	0
	Mean	14.64	5,538	222,130	104,891	375	17,557	33	0	0
	High		7,212	296,442	138,249	474	22,671	37	1	0
Scenario 2	Low		3,211	140,233	72,805	257	12,343	29	0	0
	Mean	14.94	5,857	230,716	121,151	400	19,548	33	0	0
	High		7,726	316,870	185,592	589	33,079	37	1	0
Scenario 3	Low		2,789	134,236	69,034	251	11,633	29	0	0
	Mean	14.60	5,045	214,057	100,810	363	16,518	33	0	0
	High		6,275	279,532	127,815	448	20,810	37	1	0
Scenario 4	Low		2,969	136,325	70,621	253	11,840	29	0	0
	Mean	14.90	5,241	220,408	113,538	381	18,002	33	0	0
	High		6,649	294,100	160,597	520	27,031	37	1	0

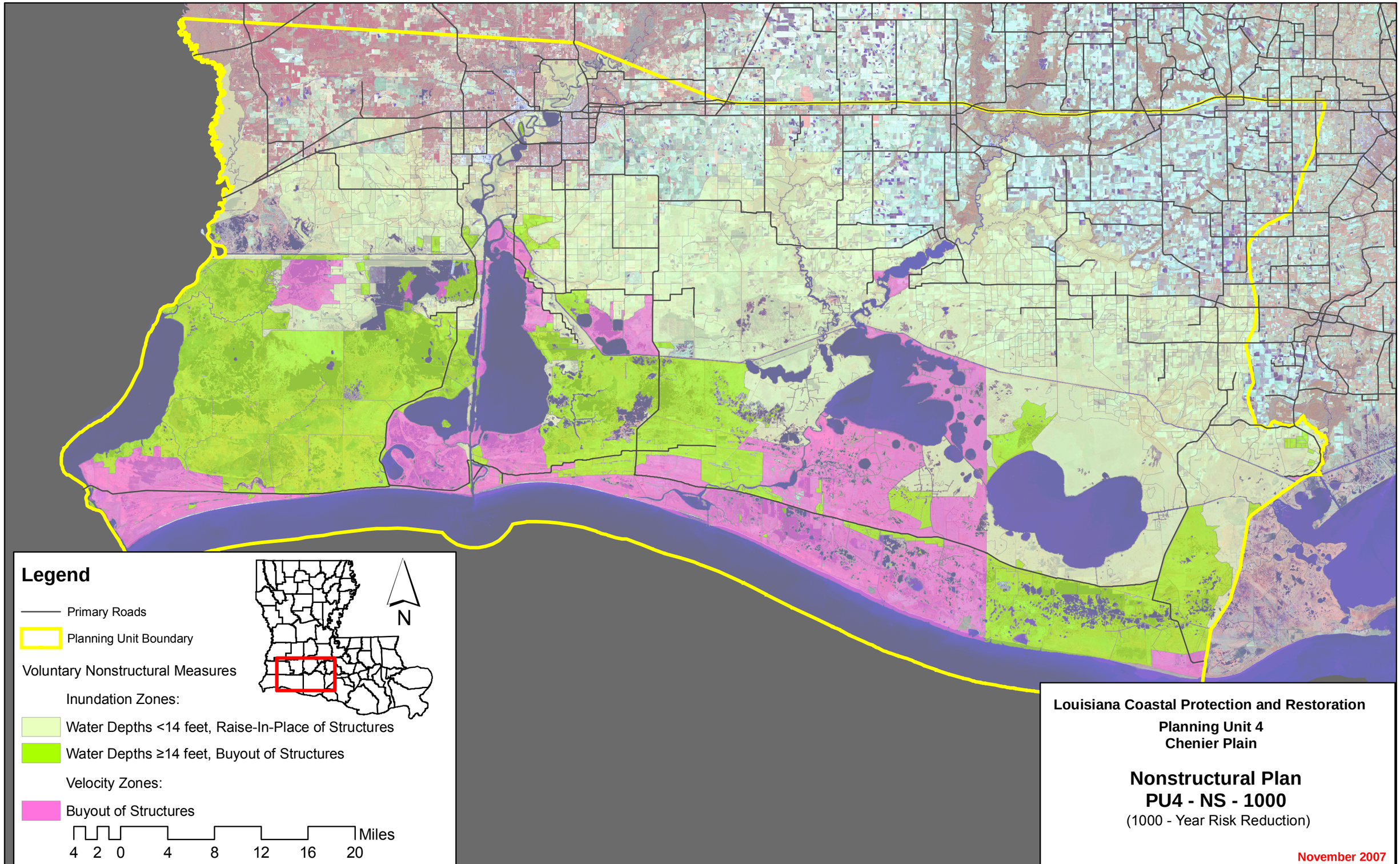
Other Metric Results							
Construction Time (years)	15	Wetlands Created/ Protected (acres)	Scen 1&3	Scen 2&4	PV Cost of NS Comp ($ Billions)	Scen 1&2	Scen 3&4
Direct Wetland Impacts (acres)	0		45,684	45,618		3.86	3.82
Indirect Impacts	N/A	PV Cost of Coastal Component ($ Billions)	10.78	11.08			
Spatial Integrity	0.575						
		PV Cost of Structural Component ($ Billions)	N/A	N/A			


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
N
4 2 0 4 8 12 16 20
Miles
Louisiana Coastal Protection and Restoration
Planning Unit 4
Chenier Plain
Nonstructural Plan
PU4 - NS - 400
(400 - Year Risk Reduction)
November 2007

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:	See alternative description.
Structural Component:	No new levees or increases in risk reduction level to existing levees.				

		Metric Results by Scenario with Uncertainty Bands								
		Life-cycle Cost	Resident Population Impacted	Residual Damages	Gross Regional Output Impacted	Employment Impacted	People's Earned Income Impacted	Archeo. Sites Protected	Historic Properties Protected	Historic Districts Protected
		$ Billions	Ann. Equiv. #	Ann. Equiv ($ 1000's)	Ann. Equiv ($ 1000's)	Ann. Equiv #	Ann. Equiv ($ 1000's)	# Sites	# Properties	# Districts
Scenario 1	Low		2,726	129,936	68,837	251	11,691	29	0	0
	Mean	16.63	5,257	209,785	98,580	358	16,294	33	0	0
	High		6,932	273,292	119,117	433	19,686	37	1	0
Scenario 2	Low		2,936	131,637	69,818	252	11,894	29	0	0
	Mean	16.93	5,576	214,163	104,675	373	17,316	33	0	0
	High		7,446	284,097	130,284	471	22,869	37	1	0
Scenario 3	Low		2,490	126,245	67,197	248	11,289	29	0	0
	Mean	16.54	4,741	202,768	95,522	350	15,554	33	0	0
	High		5,970	260,249	111,035	413	18,281	37	1	0
Scenario 4	Low		2,669	127,941	68,248	249	11,507	29	0	0
	Mean	16.84	4,937	206,409	99,841	361	16,303	33	0	0
	High		6,344	268,493	114,590	426	19,068	37	1	0

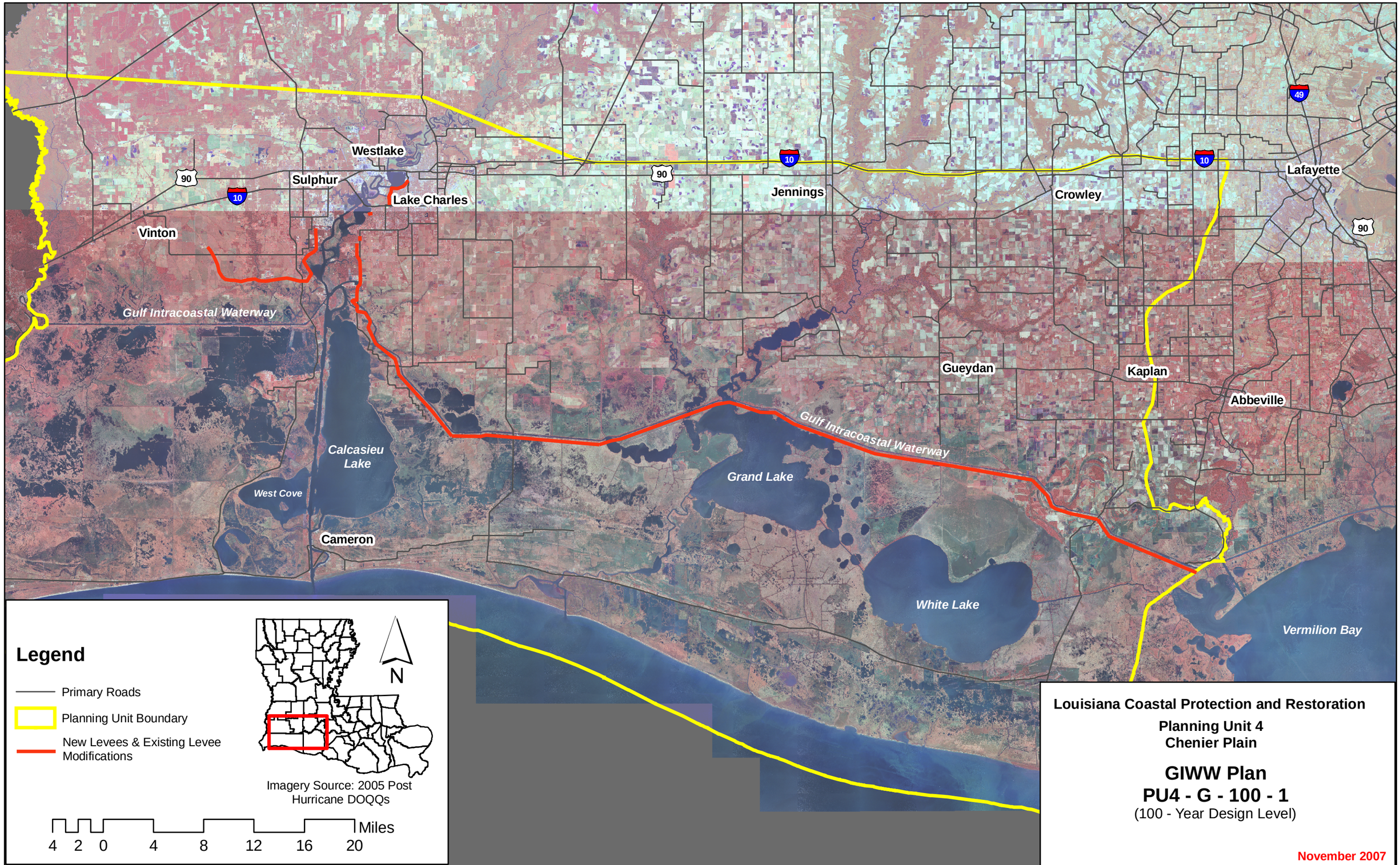
Other Metric Results							
Construction Time (years)	15	Wetlands Created/ Protected (acres)	Scen 1&3	Scen 2&4	PV Cost of NS Comp ($ Billions)	Scen 1&2	Scen 3&4
Direct Wetland Impacts (acres)	0		45,684	45,618		5.85	5.76
Indirect Impacts	N/A	PV Cost of Coastal Component ($ Billions)	10.78	11.08			
Spatial Integrity	0.575						
		PV Cost of Structural Component ($ Billions)	N/A	N/A			

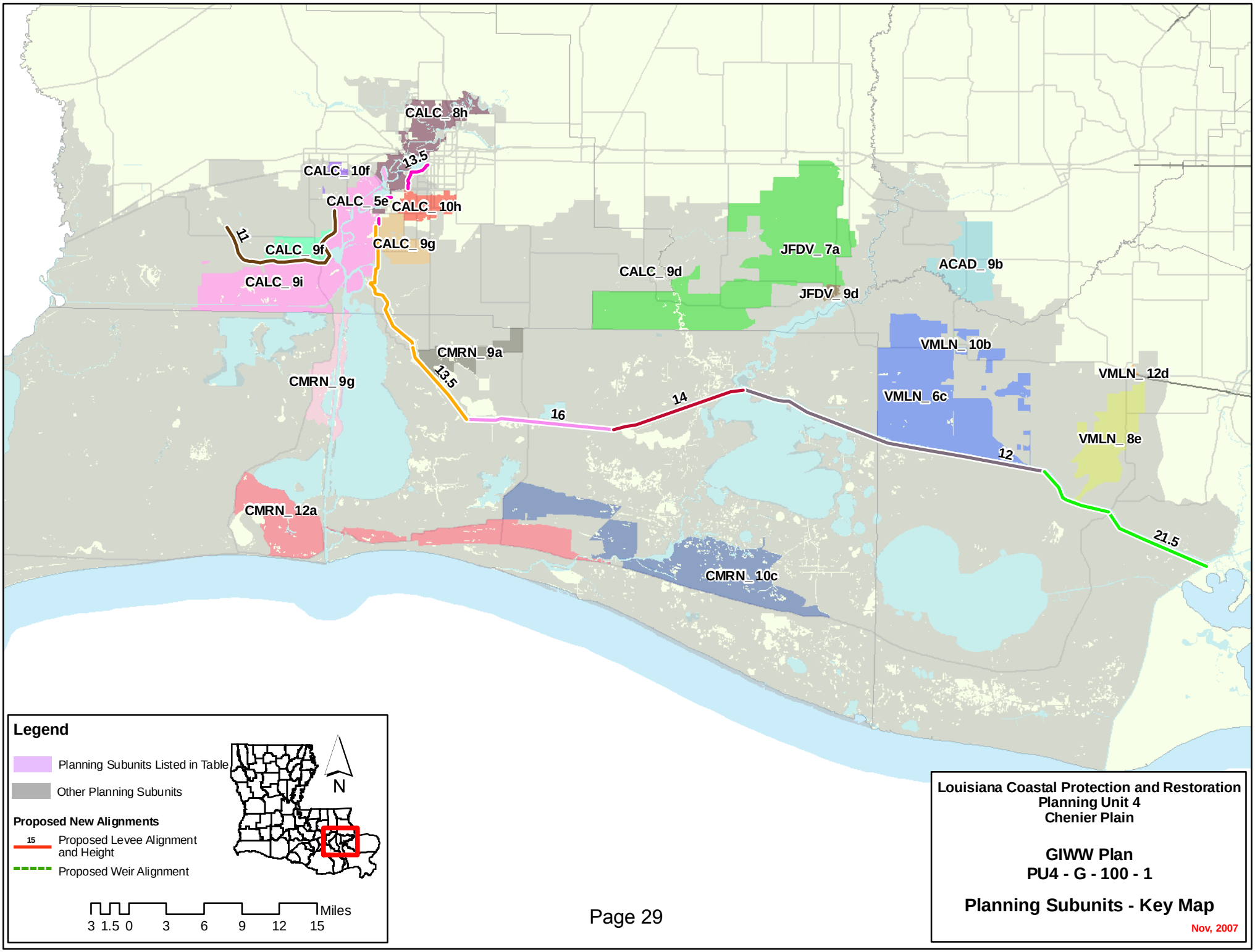

Legend
Primary Roads
Planning Unit Boundary
Voluntary Nonstructural Measures
Inundation Zones:
Water Depths <14 feet, Raise-In-Place of Structures
Water Depths ≥14 feet, Buyout of Structures
Velocity Zones:
Buyout of Structures
N
4 2 0 4 8 12 16 20
Miles
Louisiana Coastal Protection and Restoration
Planning Unit 4
Chenier Plain
Nonstructural Plan
PU4 - NS - 1000
(1000 - Year Risk Reduction)
November 2007

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 withing Lake Charles to separate the river from the land at the 100-year design level. Alignment joins with similar alignment in Planning Unit 3b.				
Coastal Component:	R1			**Nonstructural Component:**	None
Structural Component:	See alternative description.				

		Metric Results by Scenario with Uncertainty Bands								
		Life-cycle Cost	Resident Population Impacted	Residual Damages	Gross Regional Output Impacted	Employment Impacted	People's Earned Income Impacted	Archeo. Sites Protected	Historic Properties Protected	Historic Districts Protected
		$ Billions	Ann. Equiv. #	Ann. Equiv ($ 1000's)	Ann. Equiv ($ 1000's)	Ann. Equiv #	Ann. Equiv ($ 1000's)	# Sites	# Properties	# Districts
Scenario 1	**Low**		3,638	323,059	240,404	711	38,968	91	3	0
	Mean	22.8	4,492	467,889	333,187	971	52,253	116	3	0
	High		5,243	580,821	457,146	1,194	64,247	140	3	0
Scenario 2	**Low**		3,756	337,533	255,204	738	41,198	91	3	0
	Mean	23.4	4,767	486,766	427,300	1,076	59,435	116	3	0
	High		5,574	607,421	555,817	1,381	84,060	140	3	0
Scenario 3	**Low**		3,557	316,207	273,947	781	45,113	91	3	0
	Mean	22.8	4,931	455,996	358,516	1,031	57,421	116	3	0
	High		5,808	559,419	457,694	1,223	67,256	140	3	0
Scenario 4	**Low**		3,646	329,731	286,478	806	47,243	91	3	0
	Mean	23.4	5,076	472,625	433,813	1,118	63,052	116	3	0
	High		6,093	578,984	532,681	1,348	80,494	140	3	0

Other Metric Results							
Construction Time (years)	10	**Wetlands Created/ Protected (acres)**	**Scen 1&3**	**Scen 2&4**	**PV Cost of NS Comp ($ Billions)**	**Scen 1&2**	**Scen 3&4**
Direct Wetland Impacts (acres)	-2,221		45,684	45,618		**N/A**	**N/A**
Indirect Impacts	-4	**PV Cost of Coastal Component ($ Billions)**	10.78	11.08			
Spatial Integrity	0.575						
		PV Cost of Structural Component ($ Billions)	11.99	12.27			


Westlake
Sulphur
Lake Charles
Vinton
Jennings
Crowley
Lafayette
Gulf Intracoastal Waterway
Gueydan
Kaplan
Abbeville
Calcasieu Lake
West Cove
Cameron
Grand Lake
White Lake
Vermilion Bay
90
10
49
Legend
Primary Roads
Planning Unit Boundary
New Levees & Existing Levee Modifications
N
Imagery Source: 2005 Post Hurricane DOQQs
4 2 0 4 8 12 16 20 Miles
Louisiana Coastal Protection and Restoration
Planning Unit 4
Chenier Plain
GIWW Plan
PU4 - G - 100 - 1
(100 - Year Design Level)
November 2007


CALC_ 8h
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CALC_ 10f
CALC_ 5e
CALC_ 10h
11
CALC_ 9f
CALC_ 9g
CALC_ 9i
CALC_ 9d
JFDV_ 7a
ACAD_ 9b
JFDV_ 9d
CMRN_ 9a
13.5
CMRN_ 9g
VMLN_ 10b
VMLN_ 12d
VMLN_ 6c
14
16
12
VMLN_ 8e
CMRN_ 12a
21.5
CMRN_ 10c
Legend
Planning Subunits Listed in Table
Other Planning Subunits
Proposed New Alignments
15
Proposed Levee Alignment and Height
Proposed Weir Alignment
N
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
Nov, 2007

Alternative: PU4-G-100-1

Water Surface Elevations (feet - NAVD88 2004.65)

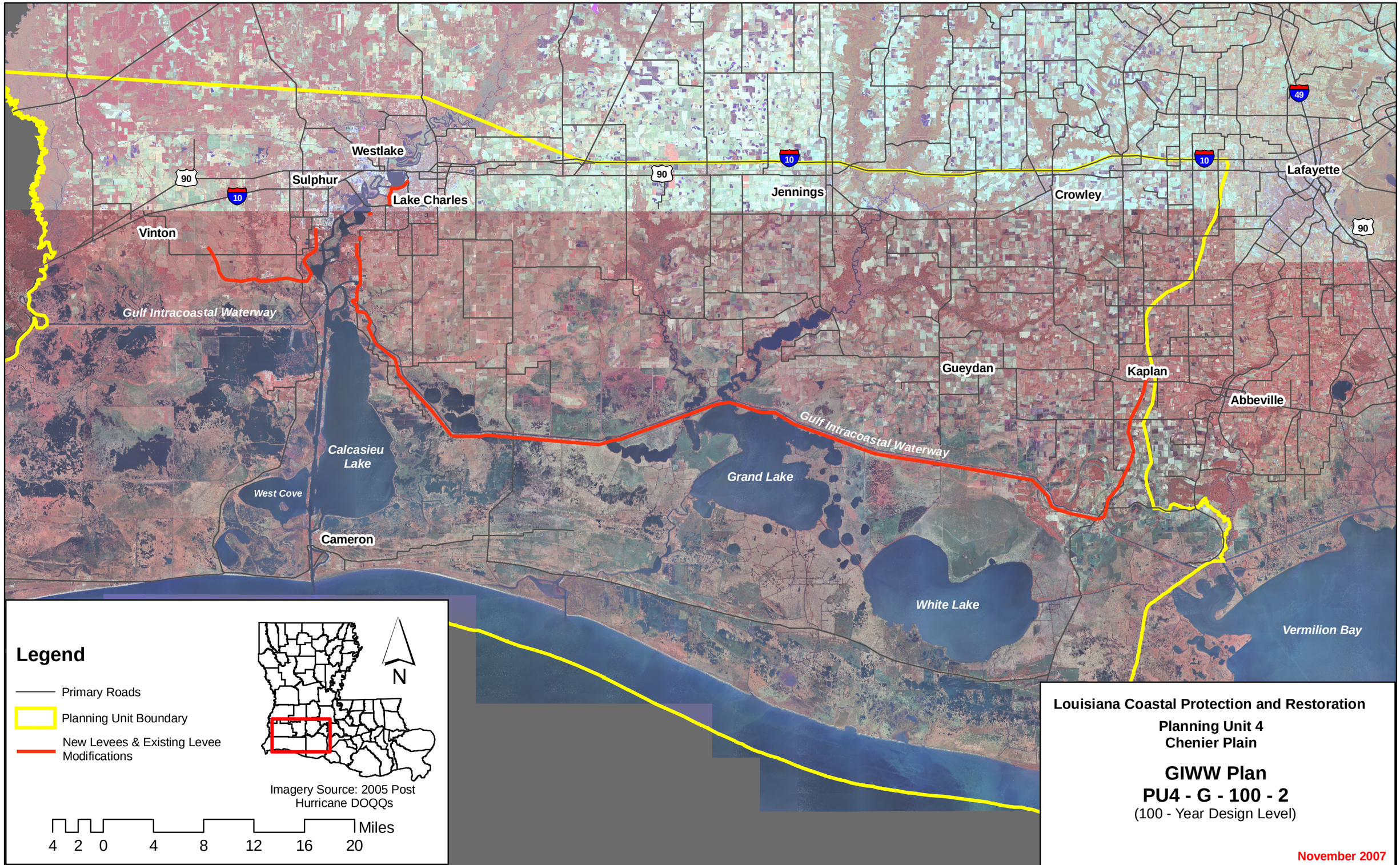
Planning Sub Unit	2010 (Base) Conditions						2060 (Future) Conditions					
	100-yr Event		400-year Event		1,000-yr Event		100-yr Event		400-year Event		1,000-yr Event	
	Without Project	With Project	Without Project	With Project	Without Project	With Project	Without Project	With Project	Without Project	With Project	Without Project	With Project
ACAD_ 9b	7.8	2.7	9.4	7.5	12.2	12.0	10.4	2.7	14.4	7.5	17.4	12.0
CALC_ 10f	7.8	7.8	7.8	7.8	7.9	7.9	10.4	10.4	10.4	10.4	12.9	10.5
CALC_ 10h	7.8	10.2	7.8	13.5	8.5	13.5	10.6	10.2	12.4	13.5	13.5	13.5
CALC_ 5e	7.8	8.3	8.5	13.5	12.1	13.5	10.4	8.3	13.6	13.5	17.1	13.5
CALC_ 8h	7.8	7.8	10.7	10.7	12.8	12.8	12.3	10.4	15.8	13.3	17.8	15.4
CALC_ 9d	7.8	2.6	9.7	6.7	13.6	13.3	10.4	2.6	13.9	6.7	17.3	13.3
CALC_ 9f	8.8	7.2	13.6	11.0	16.0	11.0	13.8	7.2	18.7	11.0	21.0	11.0
CALC_ 9g	10.9	4.3	14.6	12.4	17.1	13.5	13.9	4.3	20.4	12.4	24.1	13.5
CALC_ 9i	8.4	8.4	12.8	12.8	15.3	15.3	13.4	11.0	17.9	15.4	20.4	17.9
CMRN_ 10c	11.1	11.0	14.8	14.6	16.8	16.5	13.4	13.6	17.4	17.2	19.3	19.1
CMRN_ 12a	13.0	14.4	16.9	18.3	19.0	20.4	16.7	17.0	20.5	20.9	22.5	23.0
CMRN_ 9a	9.5	2.6	14.1	6.7	16.3	13.3	14.0	2.6	18.3	6.7	20.5	13.3
CMRN_ 9g	9.6	10.8	13.1	15.0	15.2	17.2	12.2	13.4	16.1	17.6	17.8	19.8
JFDV_ 7a	7.8	2.6	7.8	6.7	7.8	13.3	10.4	2.6	10.4	6.7	10.4	13.3
JFDV_ 9d	7.8	2.7	7.8	7.5	9.0	12.0	10.4	2.7	10.9	7.5	12.4	12.0
VMLN_ 10b	7.8	2.7	11.2	7.5	13.5	12.0	10.4	2.7	14.6	7.5	17.0	12.0
VMLN_ 12d	7.8	2.7	11.1	7.5	14.3	12.0	10.4	2.7	15.0	7.5	18.6	12.0
VMLN_ 6c	7.8	2.7	10.7	7.5	12.7	12.0	11.6	2.7	15.7	7.5	18.0	12.0
VMLN_ 8e	8.6	2.7	12.1	7.5	14.2	12.0	12.2	2.7	16.0	7.5	18.5	12.0

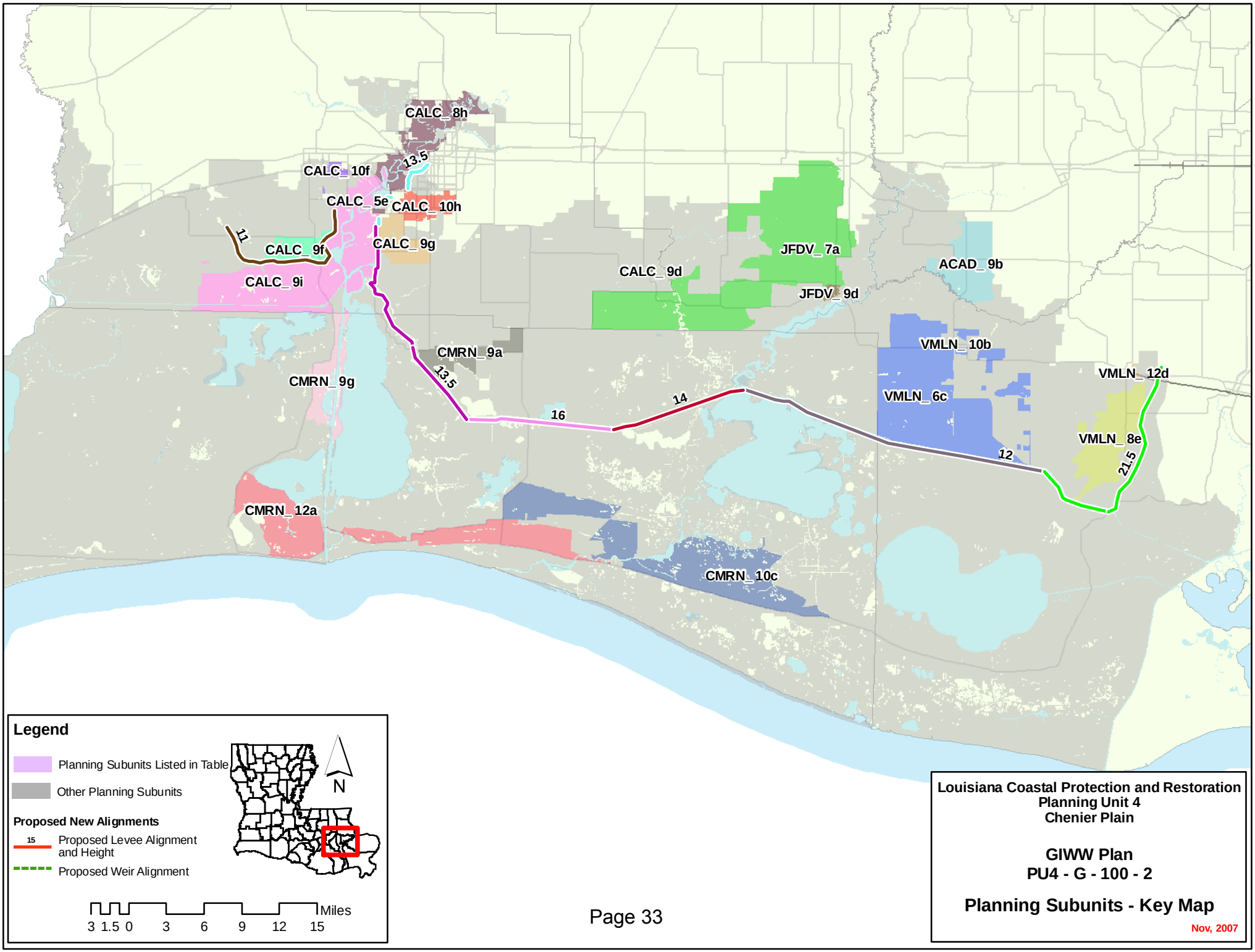
Evaluation Parameters					
	Confidence Level:	90%	Levee Design:	No Friction Waves	
	Future Sea Level Rise:	High	Levee Overtopping:	No Friction Waves	

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 withing Lake Charles to separate the river from the land at the 100-year design level. Alignment ties to high ground to the west of the Vermillion River so this alternative can be evaluated as "stand				
Coastal Component:	R1			**Nonstructural Component:**	None
Structural Component:	See alternative description.				

		Metric Results by Scenario with Uncertainty Bands								
		Life-cycle Cost	Resident Population Impacted	Residual Damages	Gross Regional Output Impacted	Employment Impacted	People's Earned Income Impacted	Archeo. Sites Protected	Historic Properties Protected	Historic Districts Protected
		$ Billions	Ann. Equiv. #	Ann. Equiv ($ 1000's)	Ann. Equiv ($ 1000's)	Ann. Equiv #	Ann. Equiv ($ 1000's)	# Sites	# Properties	# Districts
Scenario 1	**Low**		3,662	326,182	256,998	746	43,748	90	0	0
	Mean	22.6	4,544	472,966	358,043	1,017	58,135	115	0	0
	High		5,319	588,546	491,160	1,258	71,553	139	2	0
Scenario 2	**Low**		3,798	342,535	285,250	790	47,807	90	0	0
	Mean	23.1	4,825	493,756	458,663	1,131	66,270	115	0	0
	High		5,655	616,865	589,854	1,445	91,379	139	2	0
Scenario 3	**Low**		3,571	318,672	290,750	815	49,858	90	0	0
	Mean	22.6	4,965	460,021	383,856	1,076	63,301	115	0	0
	High		5,860	565,473	491,930	1,283	74,483	139	2	0
Scenario 4	**Low**		3,677	333,614	317,782	858	53,960	90	0	0
	Mean	23.1	5,116	478,062	466,168	1,172	69,959	115	0	0
	High		6,149	586,302	566,942	1,408	87,735	139	2	0

Other Metric Results							
Construction Time (years)	10	**Wetlands Created/ Protected (acres)**	**Scen 1&3**	**Scen 2&4**	**PV Cost of NS Comp ($ Billions)**	**Scen 1&2**	**Scen 3&4**
Direct Wetland Impacts (acres)	-1,763		45,684	45,618		N/A	N/A
Indirect Impacts	-4	**PV Cost of Coastal Component ($ Billions)**	10.78	11.08			
Spatial Integrity	0.575						
		PV Cost of Structural Component ($ Billions)	11.78	12.07			


Westlake
Sulphur
Lake Charles
Vinton
Jennings
Crowley
Lafayette
Gulf Intracoastal Waterway
Gueydan
Kaplan
Abbeville
Calcasieu Lake
West Cove
Grand Lake
Cameron
White Lake
Vermilion Bay
90
10
49
Legend
Primary Roads
Planning Unit Boundary
New Levees & Existing Levee Modifications
N
Imagery Source: 2005 Post Hurricane DOQQs
4 2 0 4 8 12 16 20 Miles
Louisiana Coastal Protection and Restoration
Planning Unit 4
Chenier Plain
GIWW Plan
PU4 - G - 100 - 2
(100 - Year Design Level)
November 2007


CALC_ 8h
13.5
CALC_ 10f
CALC_ 5e
CALC_ 10h
11
CALC_ 9f
CALC_ 9g
CALC_ 9i
JFDV_ 7a
ACAD_ 9b
CALC_ 9d
JFDV_ 9d
CMRN_ 9a
VMLN_ 10b
VMLN_ 12d
CMRN_ 9g
13.5
14
16
VMLN_ 6c
VMLN_ 8e
12
21.5
CMRN_ 12a
CMRN_ 10c
Legend
Planning Subunits Listed in Table
Other Planning Subunits
Proposed New Alignments
15
Proposed Levee Alignment and Height
Proposed Weir Alignment
N
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
Nov, 2007

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	14.4	7.7	17.4	12.0
CALC_ 10f	7.8	7.8	7.8	7.8	7.9	7.9	10.4	10.4	10.4	10.4	12.9	10.5
CALC_ 10h	7.8	10.2	7.8	13.5	8.5	13.5	10.6	10.2	12.4	13.5	13.5	13.5
CALC_ 5e	7.8	8.3	8.5	13.5	12.1	13.5	10.4	8.3	13.6	13.5	17.1	13.5
CALC_ 8h	7.8	7.8	10.7	10.7	12.8	12.8	12.3	10.4	15.8	13.3	17.8	15.4
CALC_ 9d	7.8	2.6	9.7	6.7	13.6	13.3	10.4	2.6	13.9	6.7	17.3	13.3
CALC_ 9f	8.8	7.2	13.6	11.0	16.0	11.0	13.8	7.2	18.7	11.0	21.0	11.0
CALC_ 9g	10.9	4.3	14.6	12.4	17.1	13.5	13.9	4.3	20.4	12.4	24.1	13.5
CALC_ 9i	8.4	8.4	12.8	12.8	15.3	15.3	13.4	11.0	17.9	15.4	20.4	17.9
CMRN_ 10c	11.1	11.0	14.8	14.6	16.8	16.5	13.4	13.6	17.4	17.2	19.3	19.1
CMRN_ 12a	13.0	14.4	16.9	18.3	19.0	20.4	16.7	17.0	20.5	20.9	22.5	23.0
CMRN_ 9a	9.5	2.6	14.1	6.7	16.3	13.3	14.0	2.6	18.3	6.7	20.5	13.3
CMRN_ 9g	9.6	10.8	13.1	15.0	15.2	17.2	12.2	13.4	16.1	17.6	17.8	19.8
JFDV_ 7a	7.8	2.6	7.8	6.7	7.8	13.3	10.4	2.6	10.4	6.7	10.4	13.3
JFDV_ 9d	7.8	2.7	7.8	7.7	9.0	12.0	10.4	2.7	10.9	7.7	12.4	12.0
VMLN_ 10b	7.8	2.7	11.2	7.7	13.5	12.0	10.4	2.7	14.6	7.7	17.0	12.0
VMLN_ 12d	7.8	2.7	11.1	7.7	14.3	12.0	10.4	2.7	15.0	7.7	18.6	12.0
VMLN_ 6c	7.8	2.7	10.7	7.7	12.7	12.0	11.6	2.7	15.7	7.7	18.0	12.0
VMLN_ 8e	8.6	2.7	12.1	7.7	14.2	12.0	12.2	2.7	16.0	7.7	18.5	12.0

Evaluation Parameters					
	Confidence Level:	90%	Levee Design:	No Friction Waves	
	Future Sea Level Rise:	High	Levee Overtopping:	No Friction Waves	