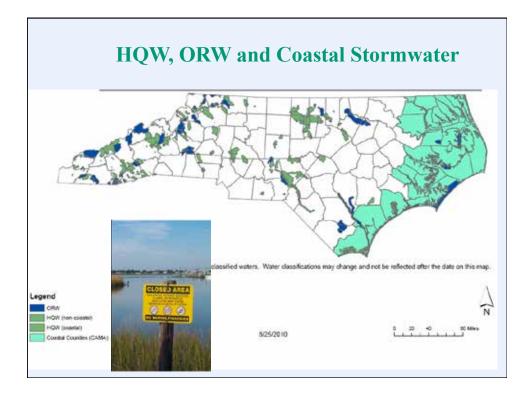


Lockwoods Folly River Fecal Coliform TMDL Implementation Plan

- Measure 1: Reduce stormwater runoff from 94% of existing development
- Measure 2: Prevent stormwater runoff from all new development
- Measure 3: Control and reduce sources of fecal coliform bacteria
- Measure 4: Education/Outreach/Training



HQW, ORW and Coastal Stormwater

Permit required for any development activities that require an Erosion and Sedimentation Control Plan (for disturbances of one or more acres) or a CAMA major permit and meet any of the following criteria:

- Located within the 20 coastal counties, -OR-
- Drain to Outstanding Resource Waters (ORW), -OR-

• Located within 1-mile and drain to High Quality Waters



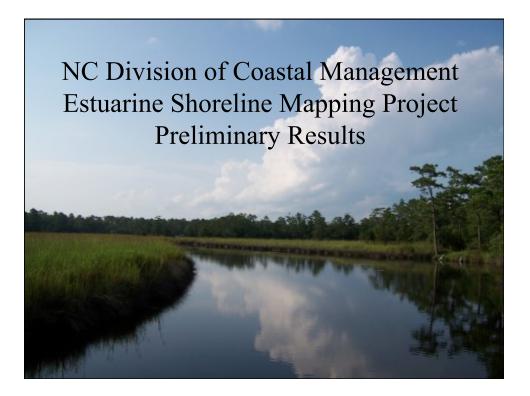
Recent Changes: Coastal Stormwater

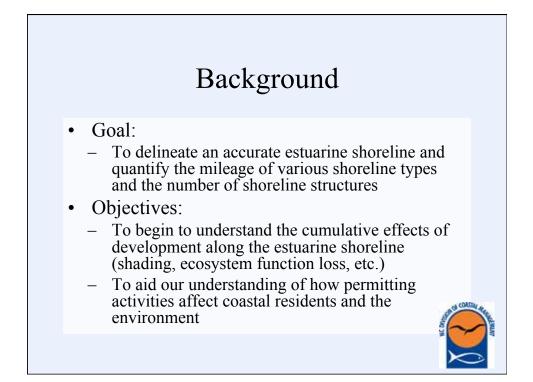
- Effective October 1, 2008 New Requirements in Session Law 2008-211
- Non-residential development activities that disturb less than one acre but add more than 10,000 square feet of built upon area require a permit.
- Residential development activities within ¹/₂-mile of and draining to shellfishing waters that disturb less than one acre but add more than 10,000 square feet of built upon area, resulting in at least 12% total built upon area, also require a permit.

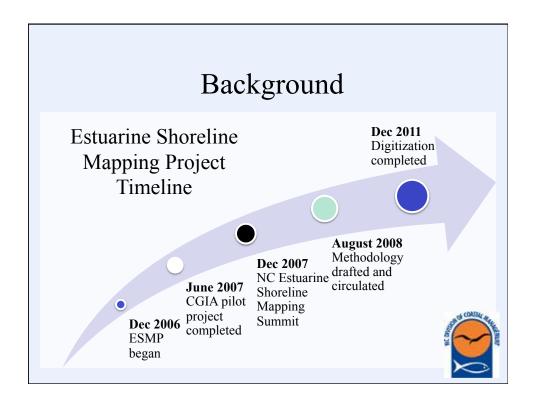


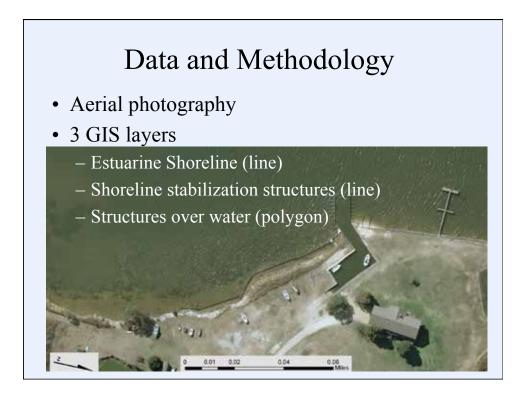
Recent Changes: Coastal Stormwater

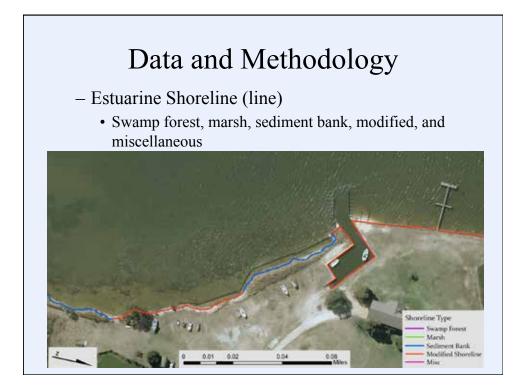
- ORW 12% BUA limit under the low density option 25% BUA maximum under the high density option using any combination of BMP controls to treat first 1.5 inch rainfall event or difference in pre and post development conditions for one-year, 2 4 hour storm. 50-foot-wide vegetated buffer
- SA 12% BUA limit under the low density option No BUA limit under the high density option
- Non SA 24% BUA limit under low density option No BUA limit under high density option and must treat first 1.5 inch rainfall event

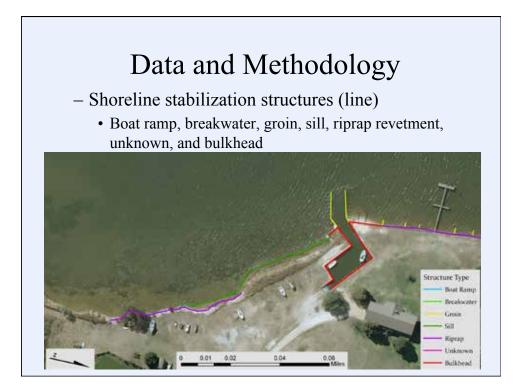


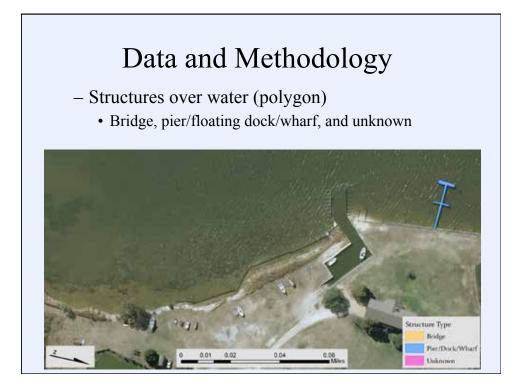












Preliminary Results

• Estuarine shoreline type breakdown by counties

County	Shoreline Type*										
	Swamp Forest			arsh	Sediment Bank		Modified		Misc		
Pasquotank	129.4	(59.5%)	12.8	(5.9%)	45.7	(21.0%)	29.3	(13.5%)	0.2	(0.1%)	
Perquimans	156.4	(65.2%)	4.3	(1.8%)	46.2	(19.2%)	32.8	(13.7%)	0.3	(0.1%)	
Tyrrell	200.7	(65.8%)	63.2	(20.7%)	31.5	(10.3%)	8.9	(2.9%)	0.5	(0.2%)	
Currituck	61.0	(5.3%)	916.4	(79.4%)	107.9	(9.3%)	62.1	(5.4%)	6.03	(0.5%)	
Washington	65.0	(74.5%)	0.4	(0.4%)	12.7	(14.5%)	9.2	(10.5%)	<0.0	(0.1%)	

*Shoreline type length is shown in miles (percent). Highest percent shoreline type of each county is shown in red and lowest amount is shown in blue, excluding miscellaneous.

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Gaunta	Modification Type*								
County	Boat Ramp	Breakwater	Groin	Sill	Riprap Revetment	Unknown	Bulkhead		
Pasquotank	0.1	0.2	0.7	0.1	8.0	<0.1	22.5		
Perquimans	0.2	0.1	0.2	<0.1	6.9	0.1	28.0		
Tyrrell	0.1	0.2	0.5	0.0	5.3	<0.1	3.9		
Currituck	0.6	0.4	1.3	0.7	7.6	0.6	55.8		
Washington	0.1	0.0	0.3	0.1	2.3	0.2	7.0		

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Structures over the water by county Modification Type*								
County	Bridge	e	Pier/Floating Whar	Unknown				
Pasquotank	63,077	(23)	469,345	(482)	2,754	(9)		
Perquimans	244,704	(8)	648,116	(806)	4,860	(20)		
Tyrrell	21,219	(9)	43,751	(168)	3,669	(16)		
Currituck	337,502	(31)	758,170	(1,505)	26,356	(69)		
Washington	514,180	(14)	216,597	(259)	1,416	(3)		

