

Southeast Regional Office

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Mission: To provide citizens and groups with the assistance needed to take an active role in the stewardship of North Carolina's coastal water quality and natural resources.

Citizens Working Together for a Healthy Coastal Environment



The Grey to Blue Project









BRADLEY AND HEWLETTS CREEKS WATERSHED RESTORATION PLAN



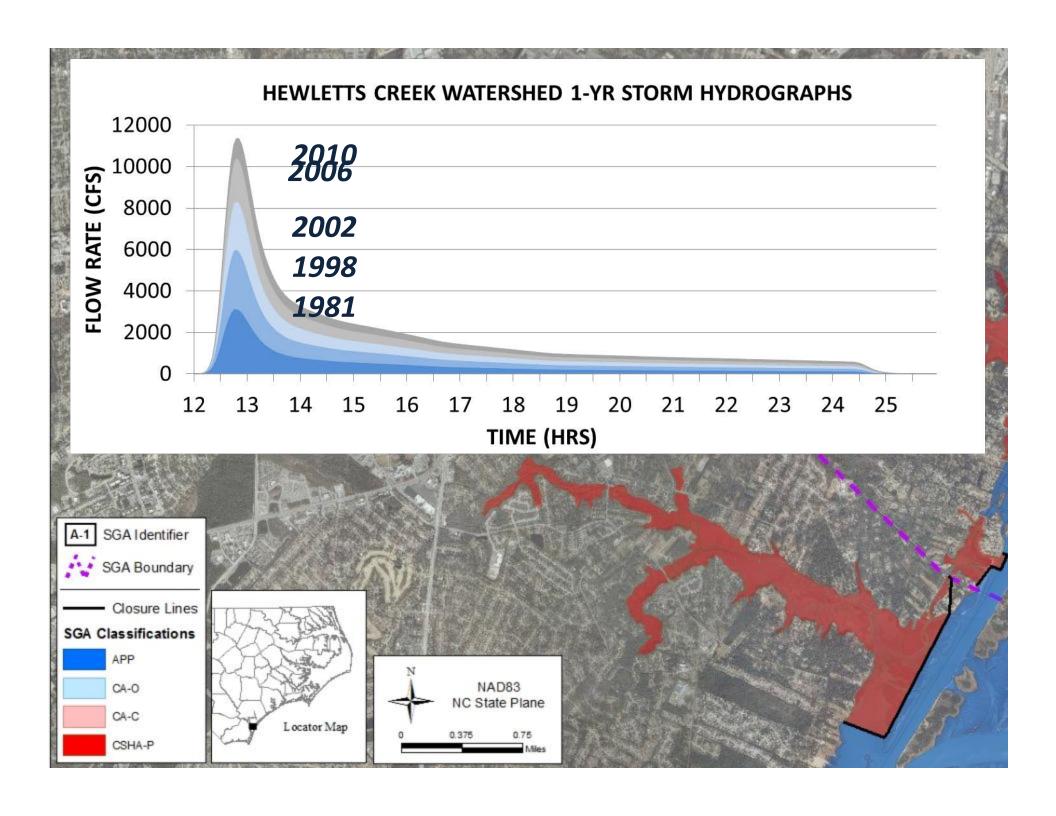
The City of Wilmington

With Contributing Partners: North Carolina Coastal Federation Withers & Ravenel Engineers Town of Wrightsville Beach UNCW Center for Marine Science

Funded by: NC Division of Water Quality - Section 319 Grant

Bradley and Hewletts Creeks Water Quality Recovery Plan | i





Water Quality Classifications and Shellfish Harvesting Area

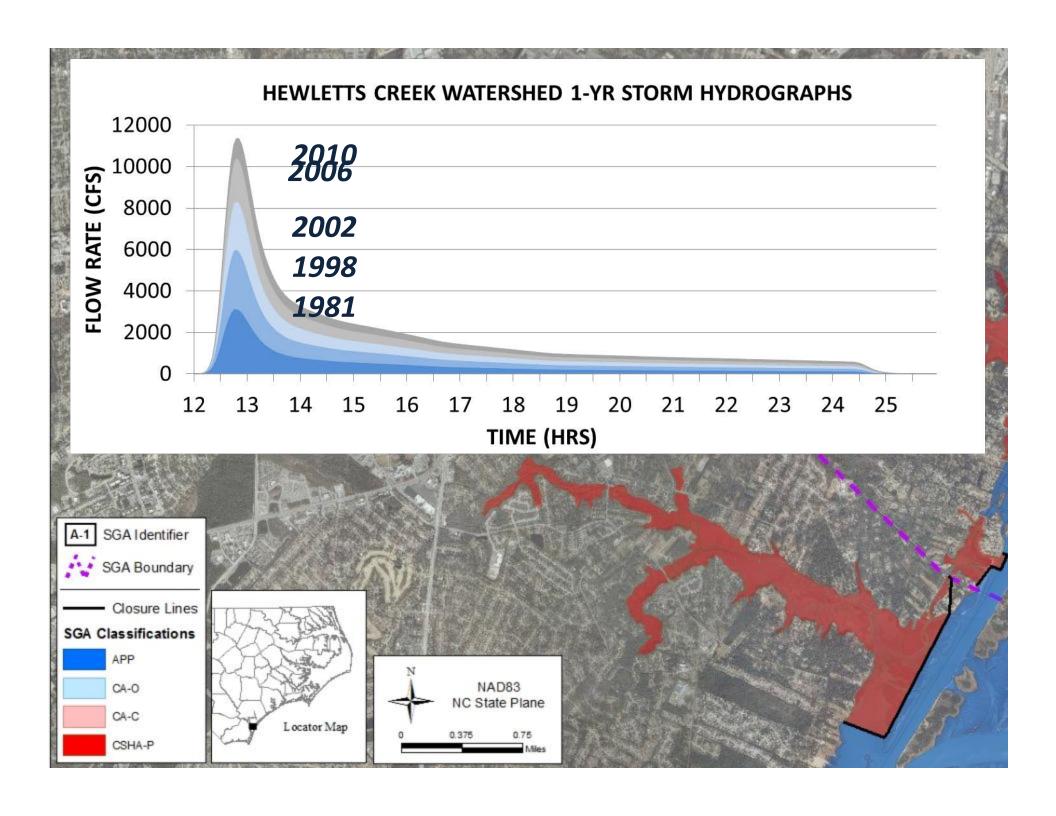
Classifications











The Grey to Blue Project

- Reduce runoff to volumes prior to shellfish closures
- Volume reduction targets quantified in gallons
- Scenario based tool evaluates retrofit strategies
- GIS Atlas tracks incremental progress
- Water quality monitoring to gauge success (or failure)







Bradley and Hewletts Creeks Watershed Restoration Plan

Type of Stormwater	Potential for Beneficial Hydrograph Modification		
Infiltration Practice	Good Soils	Fair Soils	Poor Soils
Rooftop Disconnection	High	High	Medium
Disconnected Impervious Surfaces	High	High	Medium
Restore Natural Areas	High	High	Medium
Stormwater Wetland	High	High	Medium
Linear LID for Streets, Roads	High	Medium	Medium
Landscape (Large) LID Retrofits	High	Medium	Medium
Wet Detention Basin	High	Medium	Low
Raingarden	High	Medium	Do Not Use
Bioretention	High	Medium	Do Not Use
Infiltration Swale, Basin	High	Medium	Do Not Use
Permeable Pavement	High	Medium	Do Not Use
Riparian Buffer Restoration	Medium	Low	Low
Plant Trees	Low	Low	Low
Rainwater Harvesting	Low	Low	Low
Green Roofs	Low	Low	Low

Table 8. Appropriate stormwater reduction practices based upon potential for beneficial hydrograph modification.

The Grey to Blue Project- Bradley Creek and Alderman Schools



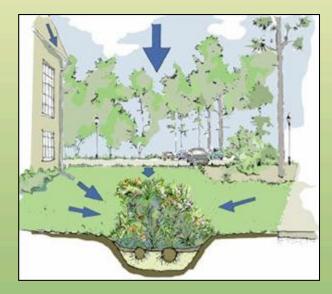












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