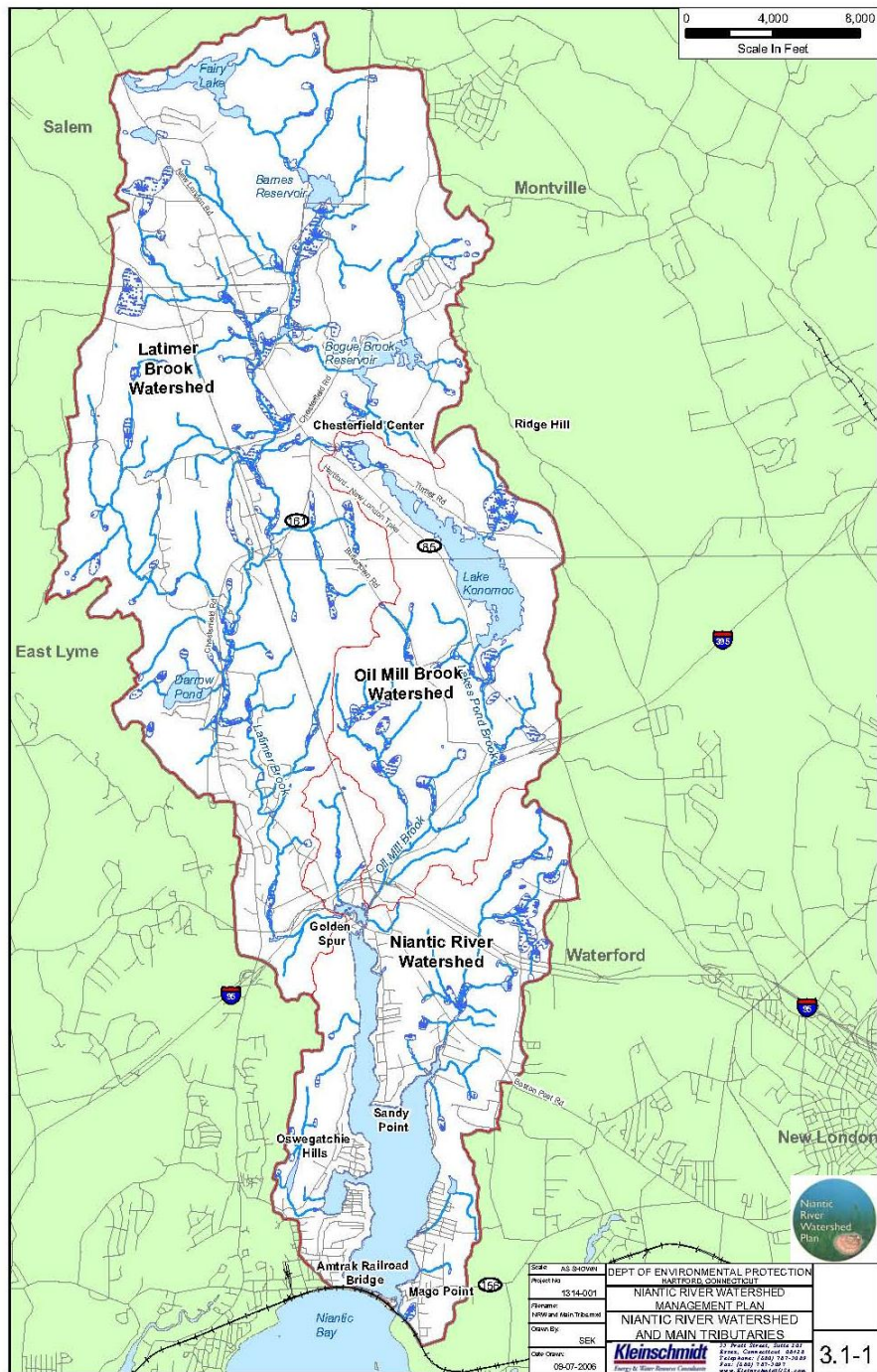


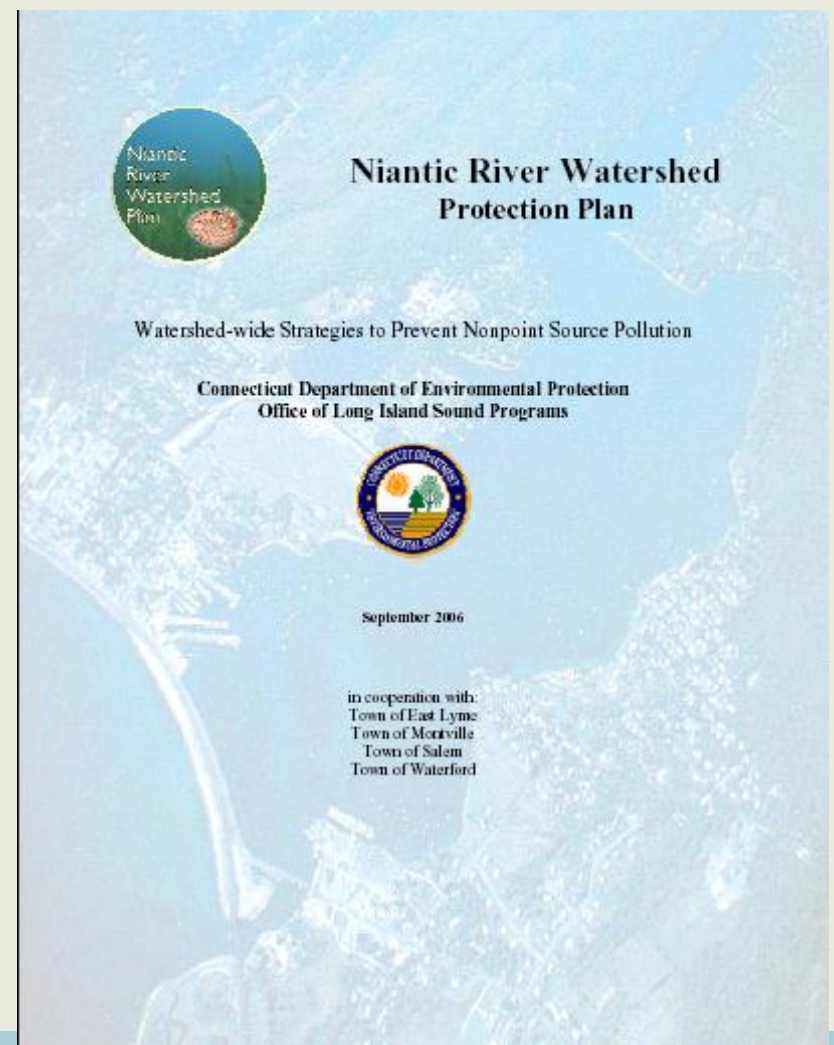
Niantic River Watershed Protection Plan

ORIGINS OF THE NIAN TIC RIVER WATERSHED PROJECT



Niantic River Watershed Protection Plan

The Niantic River Watershed Protection Plan resulted from development of Connecticut's Coastal Nonpoint Source Pollution Control Program

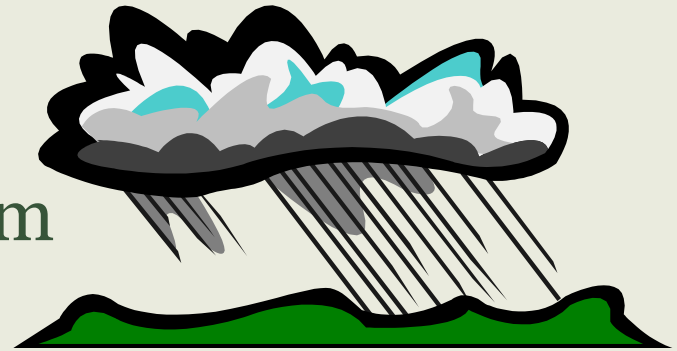


Niantic River Watershed Protection Plan



Coastal Nonpoint Source Pollution Control Program

- Section 6217 of the Coastal Zone Act Reauthorization Amendments of 1990
- States “encouraged” to develop programs to address nonpoint source pollution (NPS) to protect and improve **coastal** water quality
- Coordinate with statewide Section 319 nonpoint source program
- Monetary sanctions to both programs if a coastal NPS program was not developed and approved



Niantic River Watershed Protection Plan



Nonpoint Source Pollution: caused by rainfall or snowmelt moving over and through the ground, picking up and carrying away natural pollutants and pollutants from human activity, finally depositing them into lakes, rivers, wetlands, ground waters, and, ultimately,
Long Island Sound

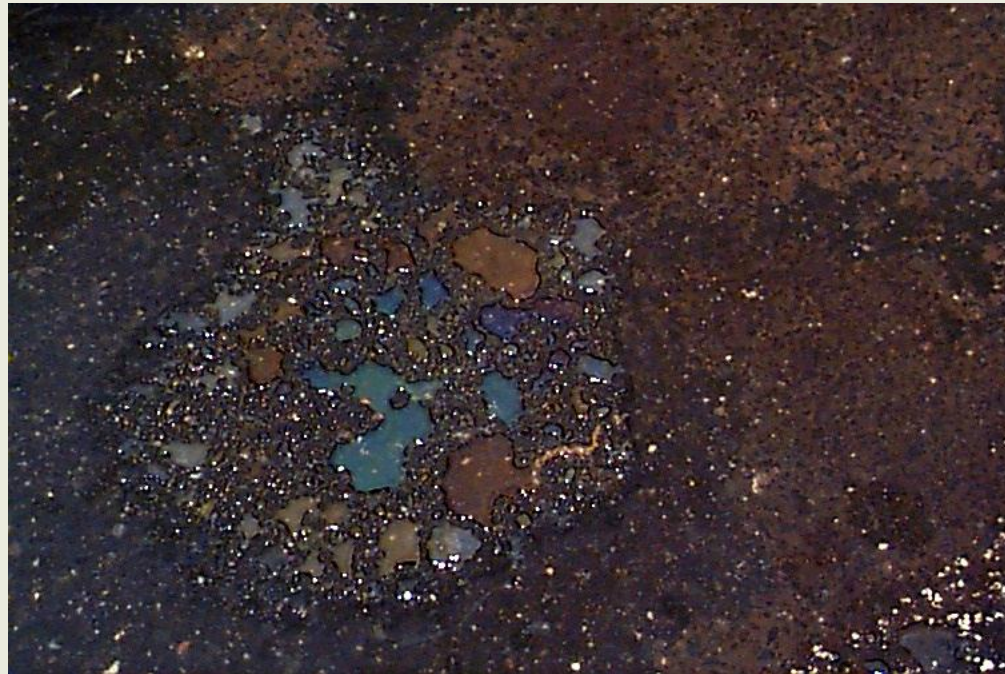


“If it goes on the ground, it goes in the Sound”

Niantic River Watershed Protection Plan



Oil, grease, and toxic chemicals from urban runoff



Niantic River Watershed Protection Plan



Excess fertilizers, herbicides, and insecticides from agricultural and municipal lands and residential areas



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Sediment from improperly managed construction sites, crop and forest lands, and eroding streambanks

Bacteria and nutrients from livestock, pet wastes, and septic systems



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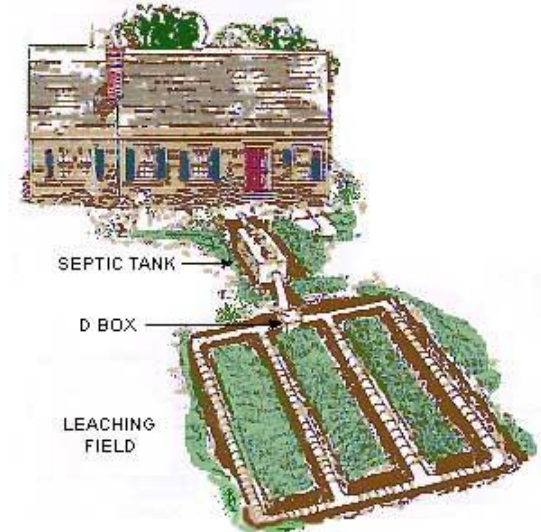


Coastal Nonpoint Source Programs are required to address 6 NPS categories:



Urban

Drawing of a typical subsurface sewage disposal system



Niantic River Watershed Protection Plan



Coastal Nonpoint Source Programs are required to address 6 NPS categories:

Agriculture

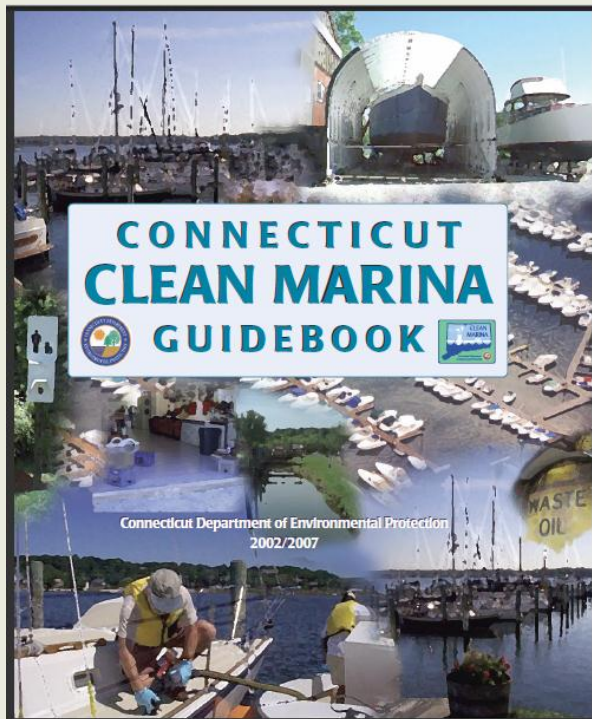


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Coastal Nonpoint Source Programs are required to address 6 NPS categories:

Marinas and Recreational Boating



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Coastal Nonpoint Source Programs are required to address 6 NPS categories:

Wetlands and Riparian Areas



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Coastal Nonpoint Source Programs are required to address 6 NPS categories:

Hydromodifications



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Coastal Nonpoint Source Programs are required to address 6 NPS categories:

Forestry

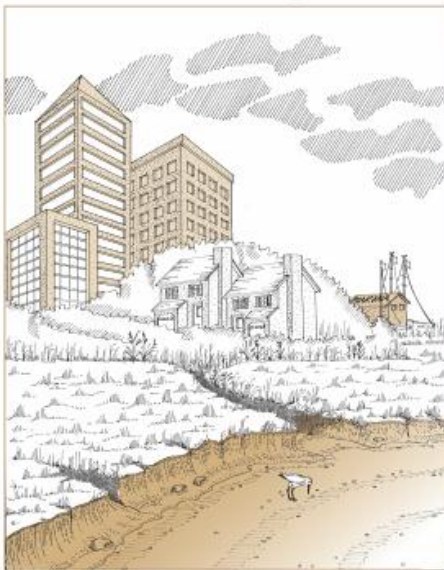


Niantic River Watershed Protection Plan

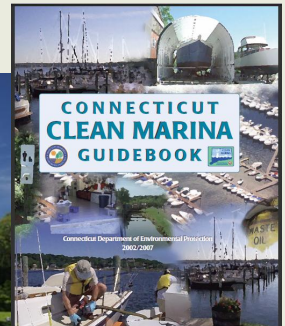


*Connecticut's
Section 6217
Coastal Nonpoint
Source Pollution
Control Program*

Connecticut's Coastal Nonpoint
Source Pollution Control Program
Addresses 5 categories
Forestry is excluded



STATE OF CONNECTICUT
DEPARTMENT OF ENVIRONMENTAL PROTECTION



Niantic River Watershed Protection Plan



Connecticut's Coastal Nonpoint Source Pollution Control Program was approved in November 2003



Signing Ceremony March 2004

Niantic River Watershed Protection Plan

Connecticut Coastal Management Program then received “bonus”^{*} funding from NOAA/OCRM for coastal nonpoint source program implementation

^{*}“Bonus” funding turned out to be a one-time grant from OCRM



Niantic River Watershed Protection Plan



One component of the Coastal NPS Program deals with watershed protection:

Develop a watershed protection program to:

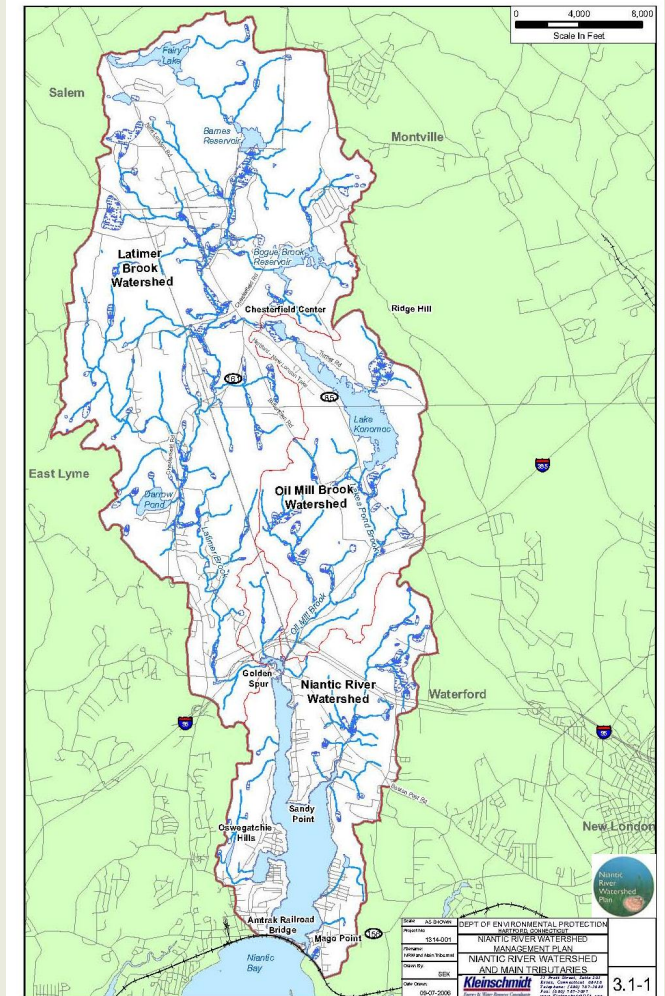
1. Avoid conversion of areas that are particularly susceptible to erosion and sediment loss;
2. Preserve areas that provide important water quality benefits and/or are necessary to maintain riparian and aquatic biota; and
3. Site development to protect the natural integrity of waterbodies and natural drainage systems.

Niantic River Watershed Protection Plan



Niantic River Watershed was selected as the study area:

- Small watershed within Coastal Nonpoint Source Management Area
- Known water quality problems
- No “point” sources of pollution from industrial discharges or sewage treatment plants
- Land Use staff experience
- On-going research (UConn, USGS)



Niantic River Watershed Protection Plan



- Issued RFP in January 2005
- Bids received for developing plan:

Kleinschmidt	162,800
Fuss & O'Neill	169,300 – 182,900
BL Companies	170,000
Maguire Group	180,000
Earth Tech	182,032.72
Milone & MacBroom	183,000+/-

Niantic River Watershed Protection Plan



- Kleinschmidt team selected
 - collective expertise (NEMO, Aqua Solutions)
 - watershed **vulnerability assessment**: a model that will try to determine the areas of the watershed that demand the highest priority for management
- \$179,800 total contract
- Advised by a Steering Committee
- Small watershed project model
- Project website
- Workshops

Niantic River Watershed Protection Plan



Niantic River Watershed Partnership Team:

CT Department of Environmental Protection

NOAA/OCRM

United States Geological Survey

Kleinschmidt Associates, Inc.

Flow Consulting LLC

UConn NEMO Program

Fitzgerald and Halliday, Inc.

Aqua Solutions

Town of East Lyme

Town of Montville

Town of Salem

Town of Waterford

Niantic River Watershed Protection Plan



Summary:

- Niantic River Watershed Protection Plan developed to help implement Connecticut's coastal nonpoint source pollution control program
- Applies the Watershed Protection management measure contained in the state's coastal nonpoint source program
- Niantic River watershed was selected
- One-time grant from OCRM
- Project totaled \$179,800
- Kleinschmidt Team selected to develop the plan