















Water Infrastructure Workshop

Developing a long term vision for water infrastructure in the Nashua Region

July 18, 2013

Nashua Regional Planning Commission







The Basics

Linking local, regional and state planning

State Development Plan RSA 9-A

CHAPTERS



Regional

Planning

RSA 36:47

Community & Economic Vitality

Transportation

Housing

Local Master

Plan

RSA 674:2



Water Infrastructure







Regional Water Infrastructure Workshop



Developing a long term vision for water resources in the Nashua Region





Most NRPC communities included the following water resource themes in their Master Plans:



Preservation of rural character



- Increase protection/ordinances
- Increase public outreach/education



Encourage low impact development for stormwater



Encourage land conservation



Develop technical studies and expertise







What is best about this area?

- Good Water Quality
- Good Environmental Quality
- Access to Amenities

What could make this area even better?

- More Public Sewer
- Better Infrastructure
- More municipal water coverage

Common Themes:

More Public Water & Sewer, Good Water Quality, Better Infrastructure







Our Speakers

Don Ware, Chief Operating Officer, Pennichuck Water Works

- **Drinking Water**
- Storm Water



- Getting to Know Your Watershed
- Jim Taylor, Merrimack Wastewater Treatment Facility, Merrimack, NH



- Sarah Marchant, Community Development Director, Town of Amherst, NH
 - Water Issues in Amherst
 - Regulations
 - Education













What is water infrastructure?

EPA: Only Public Water Systems

HUD: No Green Infrastructure

NRPC: Physical & Green Infrastructure









Green Infrastructure

Benefit of Open Space Conservation







Habitat preservation







Drinking Water

Aging Infrastructure & Replacement Costs





Water pipe from Manchester dated 1882, removed 2012

Photo Sam Evans-Brown, NHPR



Merrimack Water Works







Storm Water



Photo courtesy of NHDES Watershed Bureau



Photo courtesy of NHDES Watershed Bureau



Speaker: Don Ware, Chief Operating Officer, Pennichuck Water Works



Baboosic Lake, Amherst & Merrimack







Waste Water



\$80,885,237

Cost of Wastewater Treatment in NRPC region

SRPC Water Infrastructure Data, NHDES 2005

Speaker: Jim Taylor Merrimack Waste Water Treatment Facility Merrimack, NH



Wastewater Treatment Costs









Regulations



Photo courtesy of Bob B Brown, Flicker.com



Photo courtesy of Steve Reid Photography, Flickr.com

MS4 Permits: Opportunity for community collaboration on resources and public education

Prohibited Land Uses for Ground water from Model Ground water Ordinance, NHDES







Public Education



Speaker: Sarah Marchant, Community **Development Director Amherst NH**





Souhegan River Watershed

The River

The 34-mile long Souhegan River is a pathway that connects communities and provides year-round recreation to swim, fish, paddle, walk along, and eniov scenic views. The river adds to quality of life to residents and visitors alike. Flowing through several town centers, the river provides a sense of history, a connection to nature, and a diverse set of economic opportunities.

The Watershed

The Souhegan River Watershed occupies approximately 220 square miles spanning seventeen communities in New Hampshire and Massachusetts. The Souhegan River Watershed Management Plan (SRWMP) analyzes the River at the watershed scale, which allows for water resource goals to be realized across community boundaries in an ecolopically sound manner

The Plan

Creating the SRWMP was the first step in the process of protecting the Souhegan River Water shed under the NH Rivers Management and Protection Program. The Plan identifies watershed



conditions, priority management issues, and contains re ommendations on ways local officials, state government, concerned citizens, and volunteer groups can help protec the river resource

Moving Forward

Formal adoption of the Plan by watershed communities is the next step toward fully implementing the Plan. Once incorporated into each watershed community's Master Plan, recommended management strategies will become part of a wide range of municipal management decisions that affect or involve the Souhegan River or its watershed.

The Souhegan in the Town of Amherst

Ninety-two percent of the land area in Amherst is within the Souhegan River Watershed. Beaver Brook and Baboosic Brook also flow through Amherst and act as major tributaries to the River. Containing the region's most extensive wetland complex, floodplain area, and stratified-drift aquifer network, Amherst's portion of the Souhegan River Watershed provides several important functions for aquatic systems and people alike. Amherst also contains scenic por tions of the river, which help residents and visitors learn to appreciate the river. A canoeport is located on Route 122 in Amherst, serving as an important recreational access opportunity for river paddlers in the area



Souhegan River paddlers. Photo cou the Amherst Conservation Commissi

When It Rains It Drains





Prepared by



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Workshop Discussion

Ask:

- What are the existing strengths in the region?
- What are the issues or challenges?
- What are the regional water infrastructure needs?
- Given By For 3 Topics:
 - Public Investment: Drinking, Storm, Waste
 - Regulations
 - Public Outreach/Education



