BOARD OF SELECTMEN UPDATE

WATER RESOURCES ADVISORY COMMITTEE

JANUARY 29, 2019



WATER RESOURCES ADVISORY COMMITTEE

Purpose

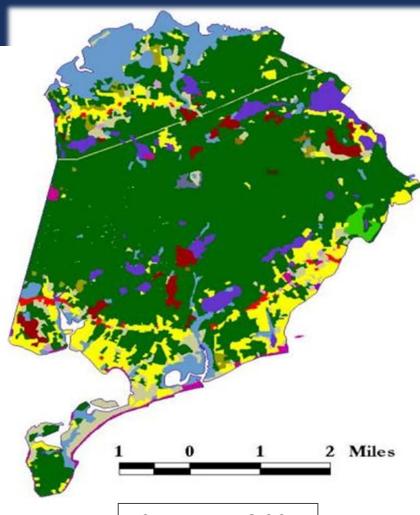
To provide an overview of the last 3 months of activity of the WRAC and an update as to the status of water resource planning efforts. WRAC will utilize feedback received to begin drilling down on these high-level discussions to formulate detailed recommendations and educate & inform our citizens on a workable program.

Agenda

- Opening Comments from the Chairman
- Introduction of our Panel
- Update of WRAC efforts to date
- Questions, Feedback & Guidance

Member	Representing
Curt Sears, Chairman	Member-at-large
Lisa Coedy	Parker's River Watershed
John Deliso	Lewis Bay Watershed
Tom Durkin	Conservation Commission
Renie Hamman	Member-at-large
Paul O'Bryan	Board of Health
Tom Roche	Bass River Watershed
Lee Rowley	Planning Board
Vacant	Northside Area

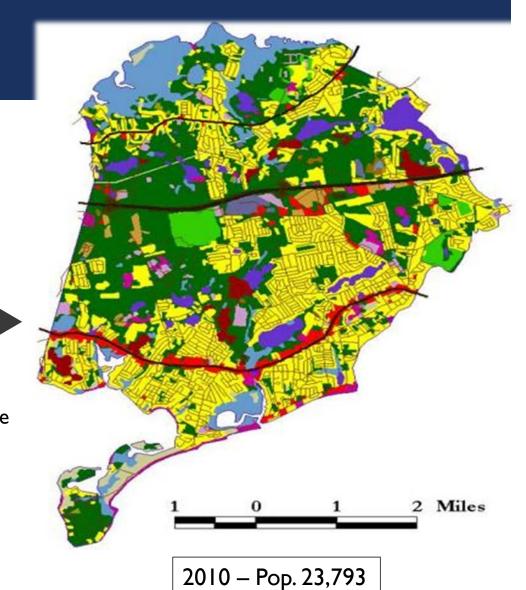
HOW DID WE GET HERE? NITROGEN



Population Densities

722% Increase

85% of our controllable nitrogen pollution comes from septic systems



1951 – Pop. 3,297

WATER QUALITY PROTECTION

WHY

- Protect Yarmouth's water resources
 - Drinking water quality
 - Pollution of ponds and estuaries
- Nitrogen removal
- Contaminants of Emerging Concern (CECs)

HOW

- Leave it to individual property owners
- Address this as a community
- Work with regional partners



THE COST OF DOING NOTHING

- Regulatory ramifications
 - Costs to homeowners in "nitrogen sensitive watersheds"
 - Approximately 10,000 homeowners, excluding commercial properties
 - Estimate of \$20,000 capital cost and \$2,600 O&M per homeowner
 - \$200 million in homeowner investment across the community with \$26.5 million in annual operating costs
 - This excludes costs for commercial systems, or requirements for new innovative residential systems
 - Homeowners alone don't remove enough nitrogen the town would still have to provide for removing nitrogen
- Litigation and loss of control
- Continued environmental degradation
- Continued stagnation/decline of commercial tax base, tourism & industry

ACTIVITY OF THE WATER RESOURCE ADVISORY COMMITTEE

- Looking at community-wide solutions in order to avoid each homeowner going "on their own"
- First meeting October 9, 2018 and met 6 times to date
- All meetings recorded and are on Town YouTube Channel
- Members have been updated as to
 - Status of various planning efforts
 - Key issues related to planning efforts
 - Options currently under consideration
 - Financing issues related to funding the recommended plan
 - Efforts are ongoing

PRIMARY RECOMMENDATION TO DATE

Centralized wastewater treatment is:

- Most cost-effective solution across the community
 - For capital investment, and
 - For ongoing operation and maintenance costs
- Achieves the best nitrogen removal results
- Has the ability to address CEC's
- Provides substantial value to homeowners and businesses
- Potential to provide significant economic development opportunities

ECONOMIC DEVELOPMENT REPORT

- Pent up demand for development
- Businesses do not want to be in the wastewater business on-site systems are expensive, limit expansion
- Businesses constrained from reaching market potential
- Continued stagnation/decline of commercial tax base and tourism
- Underperformance on rooms/meals tax.
- 35% decline in non-residential values over 10 years
- Anemic "new growth" rate for property tax base of .77%
- #1 impediment to significant redevelopment ... absence of wastewater treatment
- Every \$ spent on water resource infrastructure results in \$15 of private investment

ECONOMIC DEVELOPMENT BENEFITS

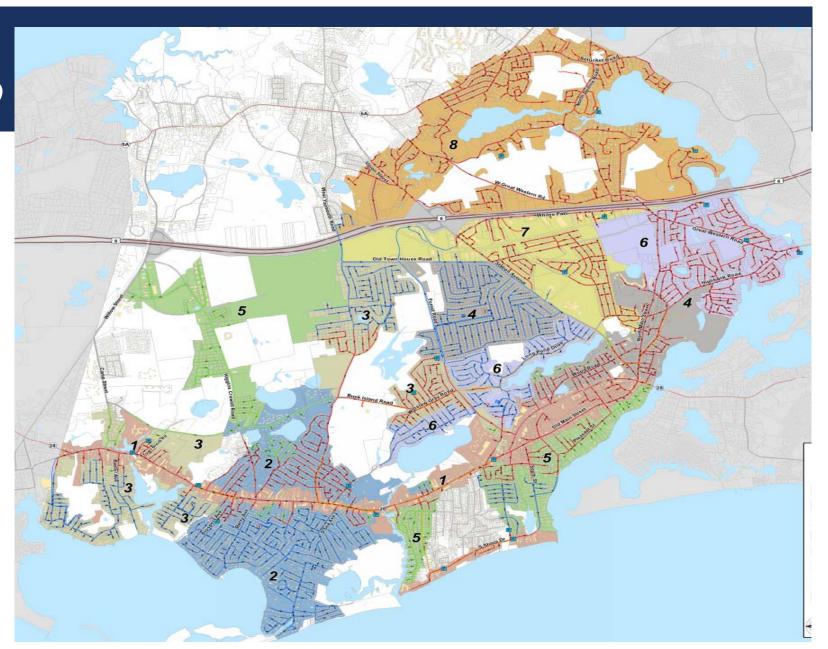
- Stabilize or improve erosion of non-residential tax base
- \$100 million in investment approximates \$1 million in revenue
- Doubling of new growth rate results in \$420 k annual revenue
- Achievable results from hotel/motel tax generates \$260k annually
- Homeowners can more easily expand or add bedrooms and avoid costly septic system upgrades
- More attractive/desirable development
- Property investment in homes and businesses drive property values
- All of these factors can be part of a cost-recovery program

RECOMMENDED WATER RESOURCES PLAN

- Similar to 2016 program
- Evaluating partnerships for treatment with:
 - Dennis & Harwich
 - Barnstable
- Collection system (70% of total cost) remains with each town
- Estimated total investment of over \$400 million and annual operating costs approximating \$10 million
 - Total plan at build-out over 40 years
 - We have done this before with our municipal water system
 - Opportunities for cost reduction (MassDOT, regional, loan subsidy, etc.)
- Maintaining an "Adaptive Management" approach focus on early phases!

PROPOSED PHASING PLAN – JANUARY, 2019





RECOMMENDED PHASE I

- Addresses nitrogen in all three watersheds of immediate concern
- Sets the stage for all future phases
- Provides for significant Economic Development opportunities
- Provides flexibility for adaptive management opportunities
- Estimated capital cost approximating \$115 million
 - Opportunities for cost reduction
 - Zero interest loans/30 year amortization = \$3.83 million annual debt service
 - Would result in tax rate going up .64 per thousand, if not offset
 - Would cost \$64 per \$100 thousand of property valuation.

DRAFT OF RECOMMENDED PHASE I MAP



COST RECOVERY PRINCIPLES

Nearly everyone contributes in some manner to our problem. Everyone in the community benefits from clean water, therefore:

- I. Everyone should participate in the solution
- 2. Dedicated funding source(s) should be identified where possible
- 3. Funding for the program should not go towards other town programs
- 4. Those that contribute more to the problem, should contribute more to the solution
- 5. Minimize placing costs on the general tax rate
- 6. Benefits from economic development should mitigate cost, when they are realized.

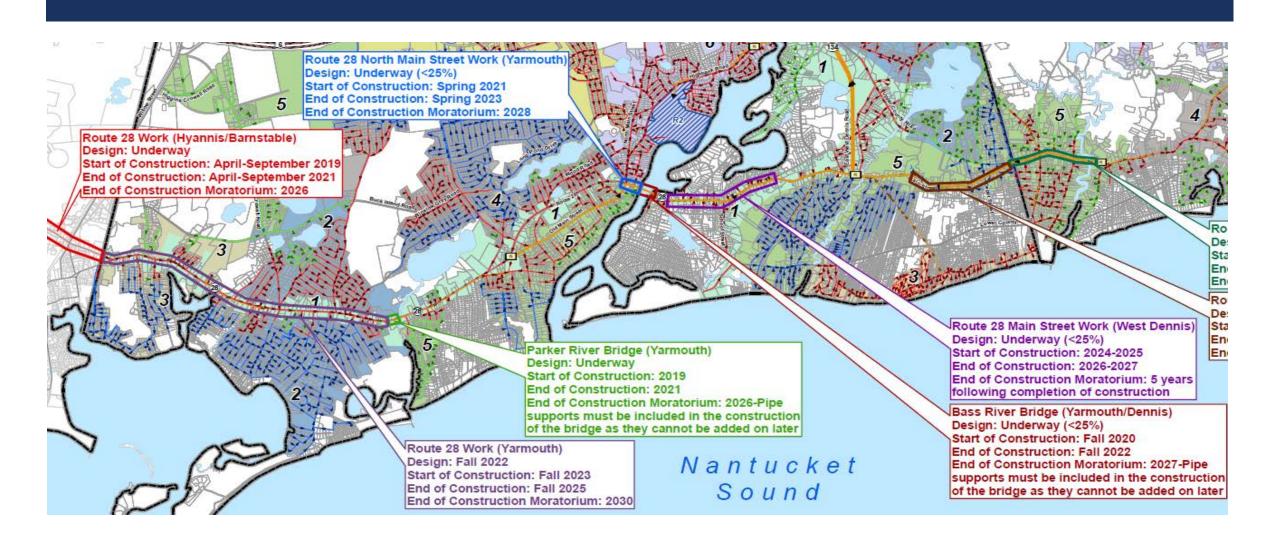
PHASE I COST RECOVERY OPTIONS UNDER CONSIDERATION

- Municipal Water Infrastructure Investment Fund (Principles 1,2,3,5)
 - Up to 3% (\$1.7 million) property tax surcharge, similar to CPA
- Debt Drop-off from Cape Tech School project (and others, if approved) (Principles 1,3,5)
- Flow-based betterment program (Principles 2,3,4,5,6)
- 25% capital surcharge on operating rate (Principles 1, 2, 3, 4, 5)
- Short-term rental bill revenues developing (Principles 2,3,4,5)
- BOS Financial management policies regarding new growth (Principle 6)

TIMING ISSUES

- Request for planning funds at May 2019 Town Meeting.
- Aligning Phase I construction to coincide with Route 28 road work to mitigate costs.
- Town Meeting vote on regional partnership(s).
- Town Meeting vote for Phase I design funds.
- Town Meeting vote on Phase I construction.
- Planning efforts assuming construction begins in 2021.

TIMING ISSUES – ROUTE 28 ROAD WORK PROJECTS



NEXT STEPS

- Evaluation of options for partnerships
- Updates on build-out flows
- Updates on design and cost projections
- Updates on a cost-recovery plan
- Outreach, Outreach

FOR MORE INFORMATION

Visit our website

General Information, meeting minutes, meeting materials

https://www.Yarmouth.ma.us/1667/water-resources-advisory-committee



About Yarmouth

Government

Doing Business

Visiting

I Want To

Visit our YouTube Channel for videos of our meetings, informational videos to come! https://www.youtube.com/channel/UCgQIQFZevmoqW5Mz2PnWKpA



Contact Town Staff: Rich Bienvenue (508) 398-2231 xt. 1297 rbienvenue@Yarmouth.ma.us

FOR MORE INFORMATION

Sign up for email updates

- Via website sign-up form coming soon
- Via "Join My List" option on Town Facebook page
- Contact call or email town staff to be added
- Text "yarmouthwater" to 22828 and provide your email when prompted

Get updates about water resource initiatives!

Send your email address by text message:

Text

YARMOUTHWATER

to 22828 to get started.



Message and data rates may apply.