

Dennis, Harwich
and Yarmouth

March 22, 2018

Dennis, Harwich, and Yarmouth
**DHY Clean Waters
Community Partnership**

**CDM
Smith**



Welcome



Paul McCormick

Chairman,

Dennis Board of Selectmen

Presentation Agenda

- Welcome
- Overview of Efficiency and Regionalization Grant Awarded to DHY Clean Waters Community Partnership
- Review MassDEP Input to Date
- Comprehensive Wastewater Management Plans (CWMP) and Program Updates from Dennis, Harwich, and Yarmouth
- Overview of DHY Discussions and Preliminary Cost Savings
- Proposed Project Schedule
- Proposed Town Meeting Article(s) for Special Legislation
- Board of Selectmen Discussion and Potential Vote to Continue Process
- Questions (hold till end) and Comments

State and Local Officials

- Lieutenant Governor – Karyn E. Polito
- Secretary EOEEA - Matthew A. Beaton
- Commissioner MassDEP – Martin Suuberg
- Regional Administrator MassDEP – Millie Garcia-Serrano
- State Representative – Timothy R. Whelan
- State Representative – Sarah K. Peake
- State Senator – Julian A. Cyr

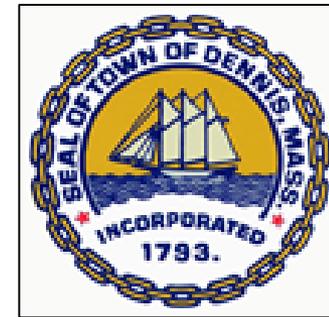
Efficiency and Regionalization Grant

- \$2 million awarded in Commonwealth of MA Community Compact Cabinet funding through the Efficiency and Regionalization Grant Program
- Dennis, Harwich, Yarmouth, and Barnstable were awarded a \$150,000 grant to further evaluate community partnership wastewater efforts.
- Work to be performed under the grant:
 - Evaluate capital and operating costs, governance structures, and implementation issues
 - The main goal of this potential partnership is to evaluate all options so that the cost of wastewater program will be reduced for the taxpayer in each of the participating towns.

Review of MassDEP Input to Date

- Strongly support community partnership approach.
- MassDEP issued letter outlining the steps the Department may take if Cape Cod communities fail to take timely action to address impaired estuarine systems:
 - Designation of Nitrogen Sensitive Areas (“NSAs”).
 - Require individual nitrogen removal systems
 - Changes to Ground Discharge Permits and Regulations.
 - Formation of Water Pollution Abatement Districts (“WPADs”).

CWMP and Program Status Update: Town of Dennis



- Draft CWMP submitted to Commonwealth of Massachusetts Environmental Policy Act (MEPA) Office and the Cape Cod Commission (CCC) (Summer 2017).
- Final CWMP to be submitted (Summer 2018).
- Bass River Railroad/Cape Cod Rail Trail Bridge Abutment Widening (2016-2017).
- Aquaculture Pilot Project in Swan Pond (starting in Summer 2018).
- Economic Study conducted.

Watershed	Septic Load Reduction Required
Bass River	60%
Herring River	58%
Swan Pond	100%
Chase Garden Creek	+24%
Sesuit Harbor	Awaiting MEP Report

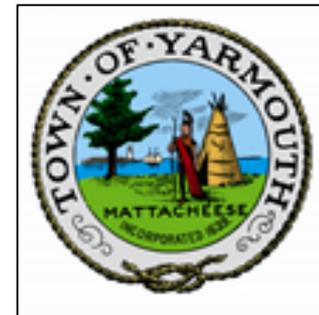
CWMP and Program Status Update: Town of Harwich



- Final CWMP – approved by Commonwealth of Massachusetts Environmental Policy Act (MEPA) Office and the Cape Cod Commission (CCC) (2016).
- Phase 1: Completed
 - Cold Brook Attenuation - Study
 - Muddy Creek Attenuation Bridge Project
- Phase 2:
 - Sewer Construction in the Pleasant Bay Watershed (South)
 - Chatham Intermunicipal Agreement (IMA) for wastewater treatment
 - Cold Brook Attenuation - Design

Watershed	Septic Load Reduction Required
Allen Harbor	78%
Herring River	58%
Pleasant Bay	65%
Saquatucket Harbor	58%
Wychemere Harbor	100%

CWMP and Program Status Update: Town of Yarmouth



- Final CWMP – approved by the Commonwealth of Massachusetts Environmental Policy Act (MEPA) Office and the Cape Cod Commission (CCC) (August 2011).
- Developing Notice of Project Change (NPC) (2017-2018).
- Evaluating community partnership options with Barnstable for West Yarmouth area.
- File NPC to CWMP with MEPA and CCC (Spring 2019).
- Bridge widenings at Rt 28 Parkers River and Rail Trail at Bass River. (Rt 6??)

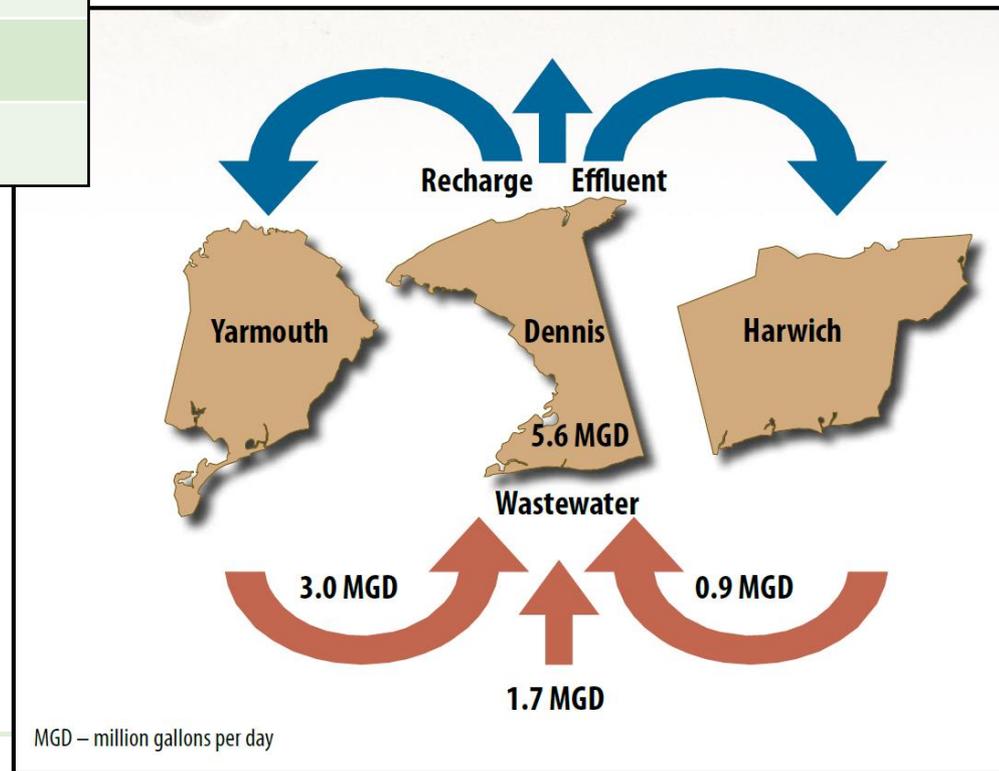
Watershed	Septic Load Reduction Required
Bass River	60%
Lewis Bay	80%
Parkers River	96%

Overview of DHY Discussions and Preliminary Cost Savings

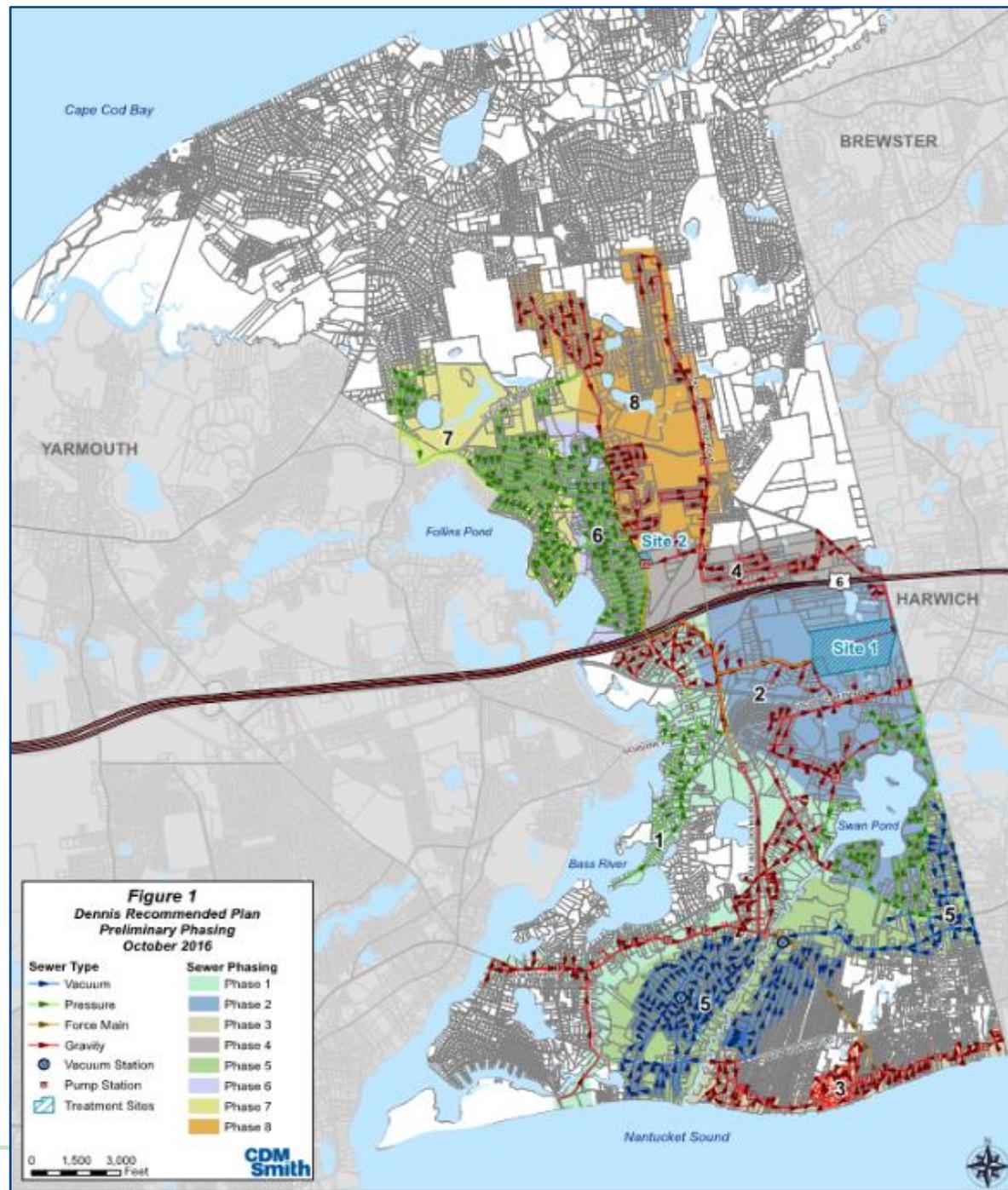
- DHY Working Group Members: Town Administrators, Representative from Board of Selectmen, and designated staff from all three towns
- Monthly meetings held since June 2017
- Met with MassDEP Commissioner Suuberg and Representative Whelan in November 2017
- Combined three-town savings at buildout:
 - Capital Costs: \$100 Million Savings
 - Operating & Maintenance Costs: \$6.5 Million Annual Savings

Estimated Wastewater Flow by Town

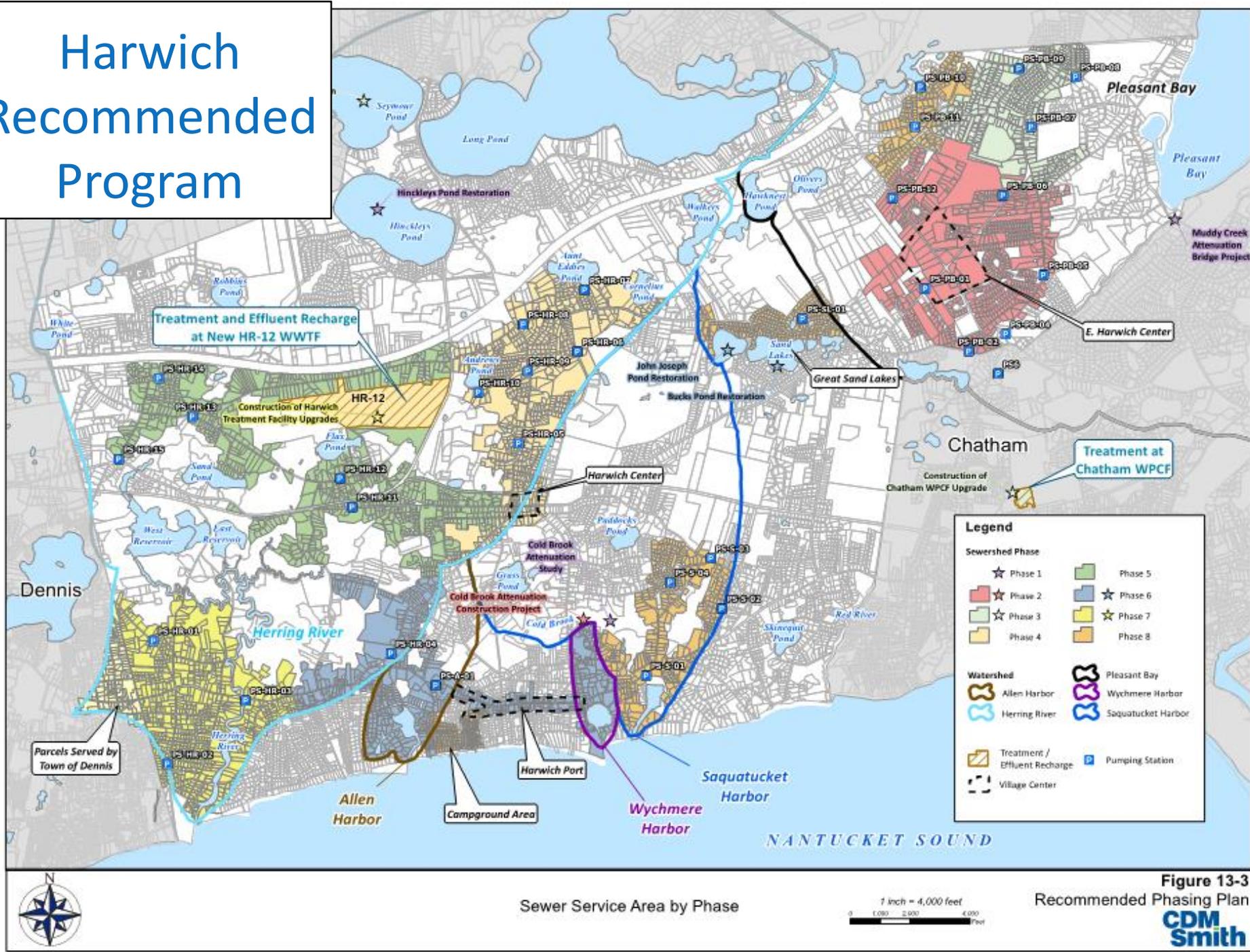
	Wastewater Flow at Buildout	% of DHY WWTF
Dennis	1.7 MGD	31%
Harwich	0.9 MGD	16%
Yarmouth	3.0 MGD	53%
Total	5.6 MGD	



Dennis Recommended Program



Harwich Recommended Program

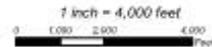


Legend

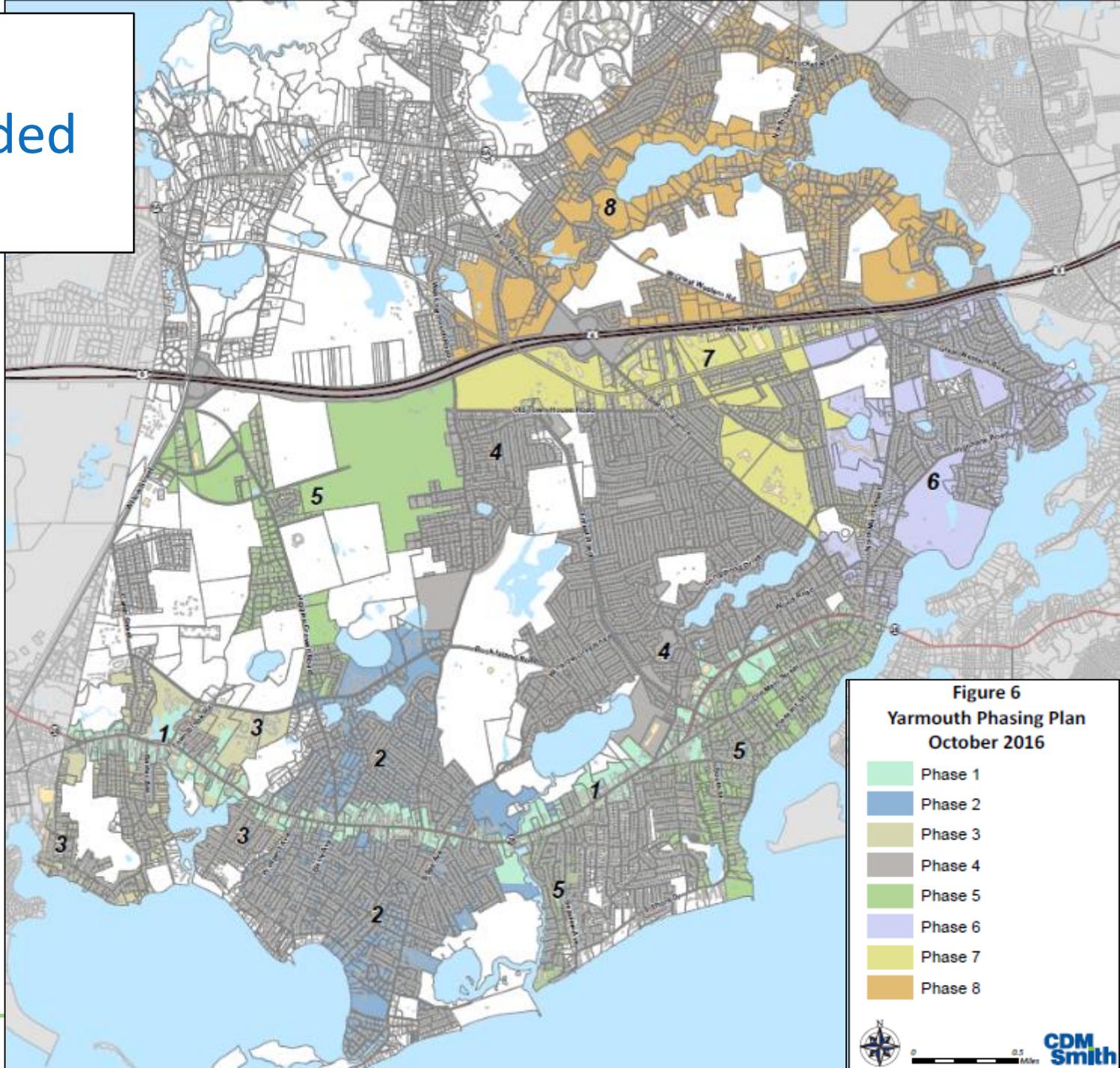
Sewershed Phase	
☆ Phase 1	☆ Phase 5
☆ Phase 2	☆ Phase 6
☆ Phase 3	☆ Phase 7
Phase 4	Phase 8
Watershed	
Allen Harbor	Pleasant Bay
Herring River	Wychmere Harbor
	Saquatucket Harbor
Treatment / Effluent Recharge	Pumping Station
Village Center	

Sewer Service Area by Phase

Figure 13-3
Recommended Phasing Plan



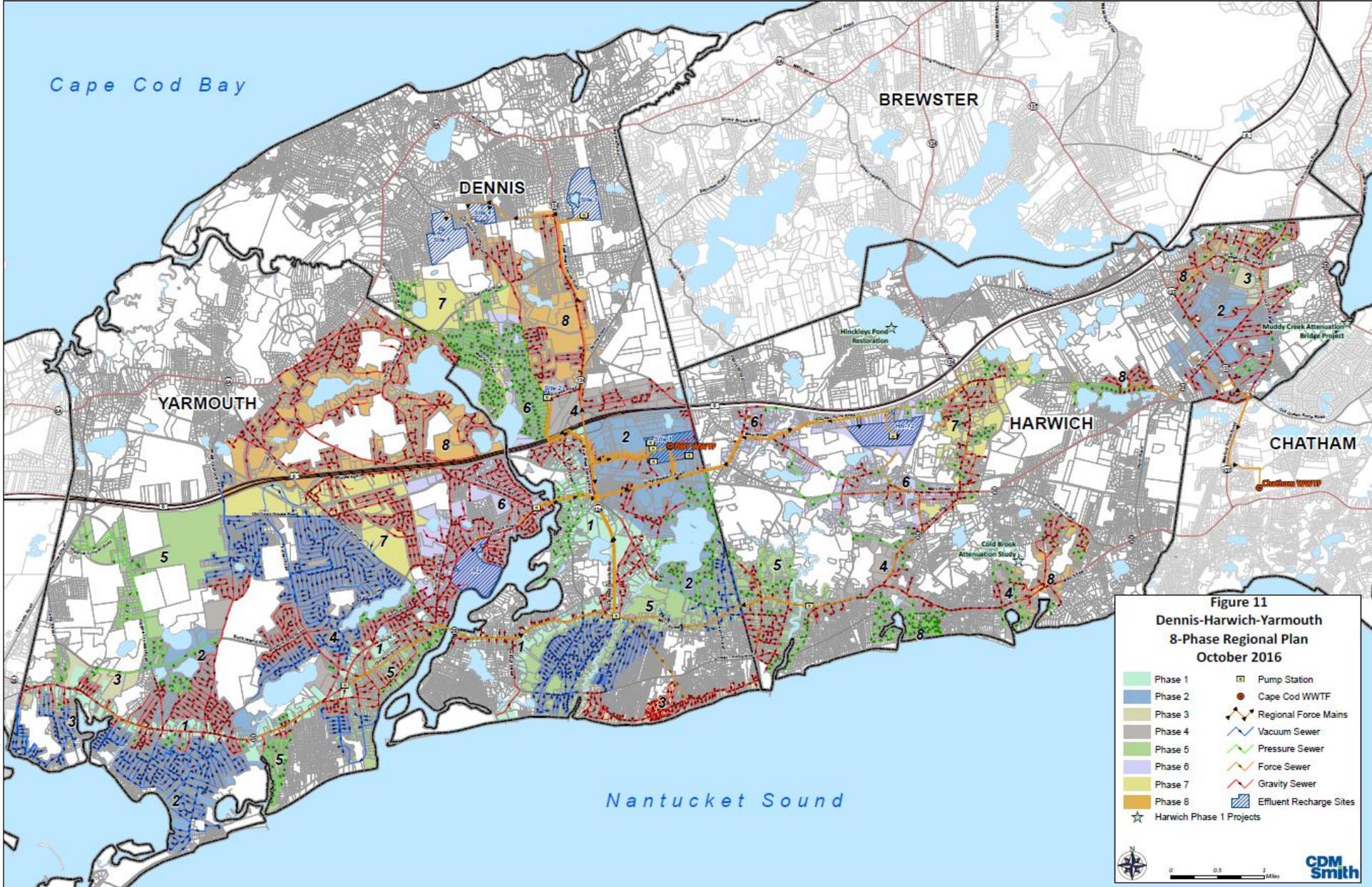
Yarmouth Recommended Program



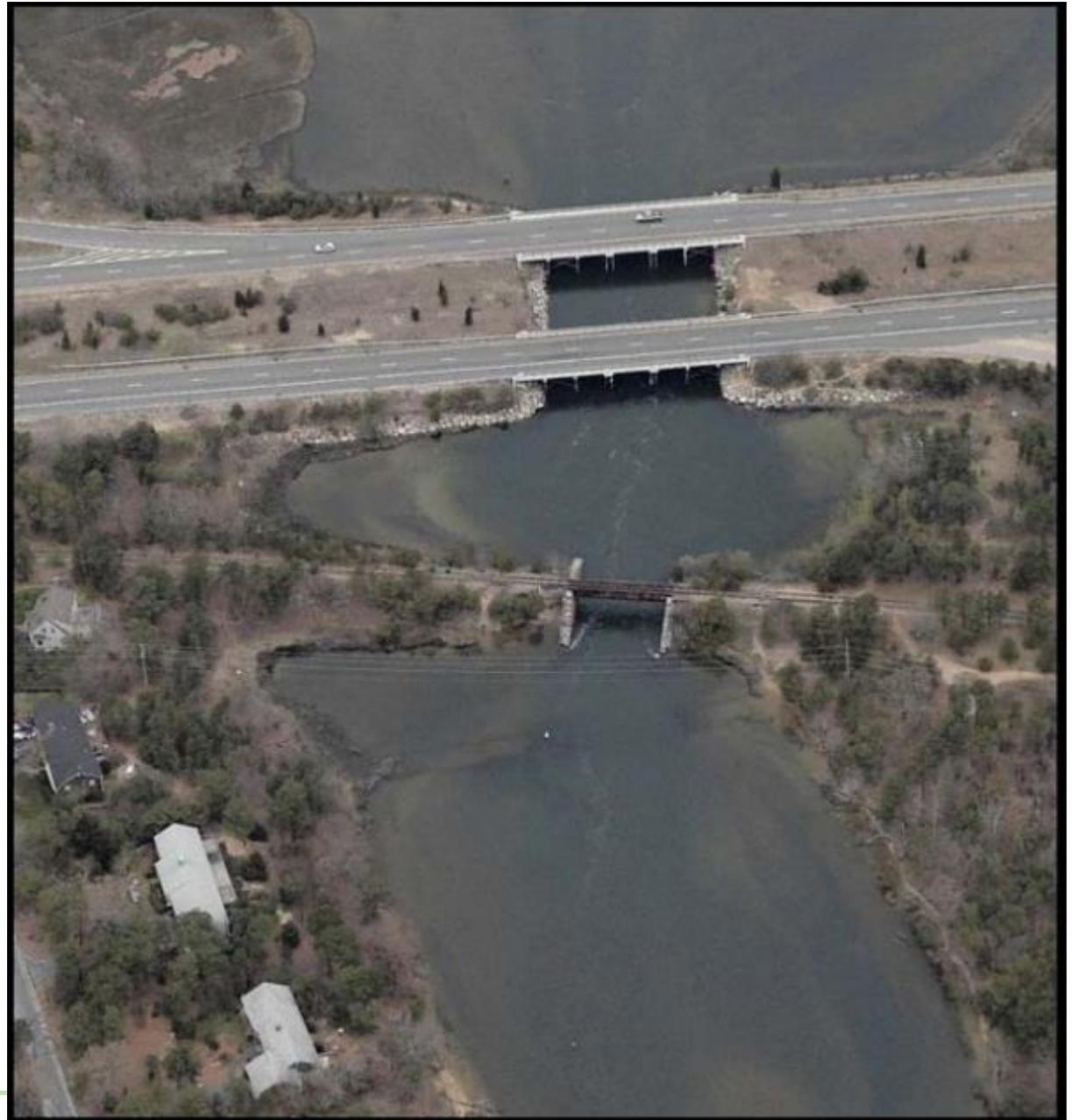
Phasing Map Legend



DHY Community Partnership - Wastewater



Route 6 Bass River Bridge Widening



Summary: Advantages of Community Partnership Option

- Construction and Operation & Maintenance (O&M) cost savings;
- Restore water bodies and overall aesthetics on the Cape;
- Recharge/reuse effluent in beneficial locations (i.e., golf courses, washing stations);

Summary: Advantages of Community Partnership Option (cont'd)

- Work with regulators to meet watershed Total Maximum Daily Loads (TMDLs);
- Improved treatment with more consistent year round wastewater flow;
- Operate and maintain the treatment facility and shared infrastructure with one staff;

Summary: Advantages of Community Partnership Option (cont'd)

- Address potential future treatment of contaminants of emerging concern (CECs);
- Simplifies governance for wastewater operations;
- Construction of sewers in commercial areas to promote desired economic development, smart growth, and protect historic districts; and
- Gain more points for State Revolving Fund (SRF) loan program to access low interest rates.

It's been done before...

- Drinking Water Systems in Dennis, Harwich, and Yarmouth all cost about what it will cost to implement the wastewater solution.
- Recent formation (2014) of the MFN Regional Wastewater District for the towns of Mansfield, Foxborough and Norton.



Proposed Project Schedule

- Subcommittee meetings to be held monthly throughout the year
- Next community meeting: November 2018
- Individual Town meetings: May 2018 and May 2019
- Draft DHY agreement: January 2019

Selectmen Liaisons

- Dennis – John Terrio
- Harwich – Larry Ballantine
- Yarmouth – Mark Forest

Proposed 2018 Town Meeting Article(s) for Special Legislation

“To see if the Town will vote to authorize and direct the Board of Selectmen, in cooperation with the Towns of _____ and _____, to draft special legislation to create the DHY Clean Waters Community Partnership, with substantially the powers, membership, governance, and purposes set forth in Massachusetts General Laws, Chapter 21, Sections 28 through 30, and Massachusetts General Laws Chapter 40N, supplemented and amended as the Board of Selectmen shall determine to be in the best interests of the Town; to direct the Board of Selectmen to request that the state representative and senator representing the Town file and support such special legislation; and to authorize the Board of Selectmen to take all action necessary to effect the foregoing; provided, however, that such special legislation shall contain a condition that requires approval by town meeting in each of the towns participating in the final agreement before any agreement entered into pursuant to said special legislation takes effect; or take any other action relative thereto.”

Proposed Vote by Three Boards of Selectmen

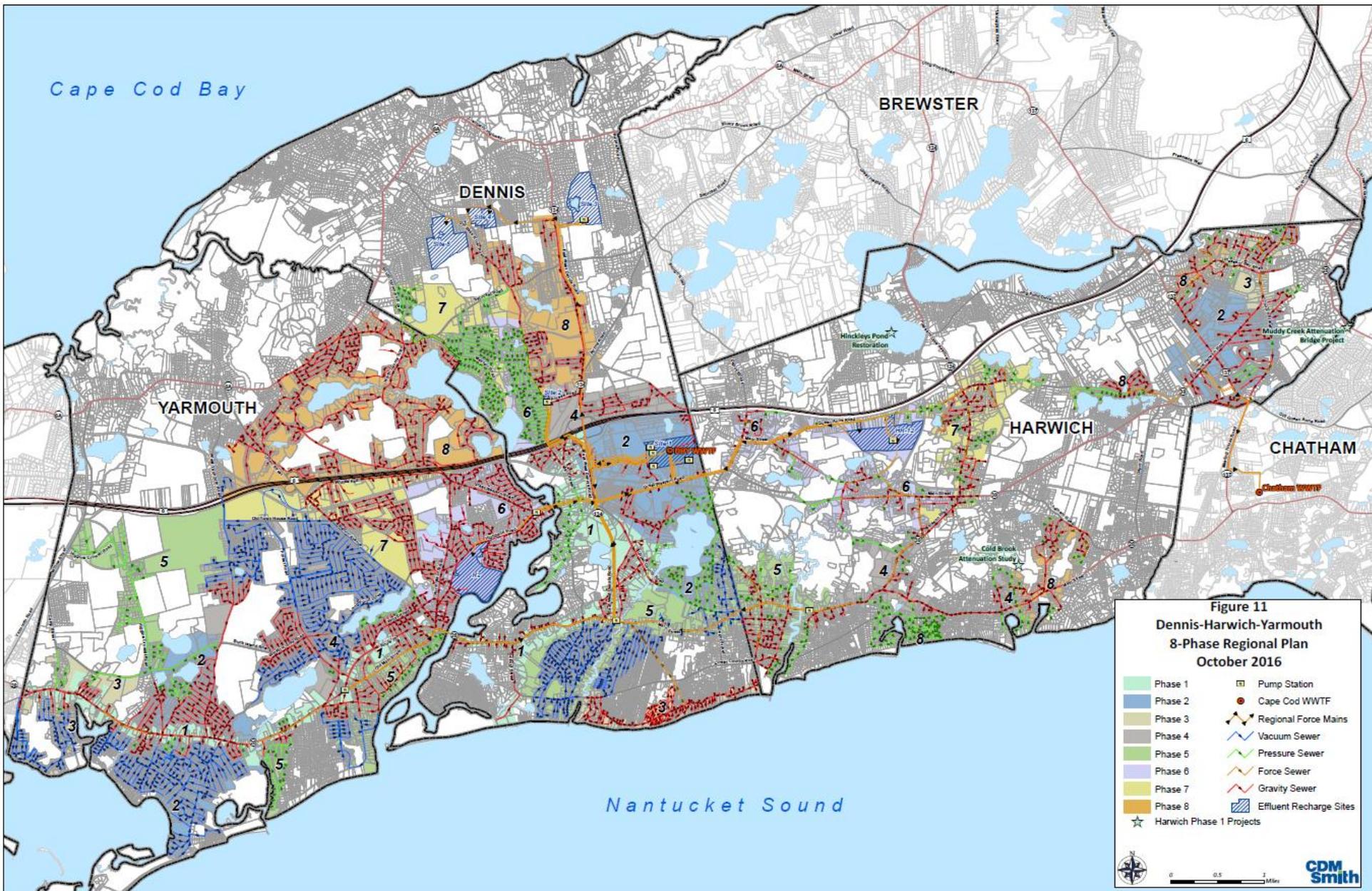
Proposed that we continue to move forward and participate in the Clean Waters Community Partnership process and to place on our Annual Town Meeting warrant the Special Legislation article as presented.

Questions and Comments

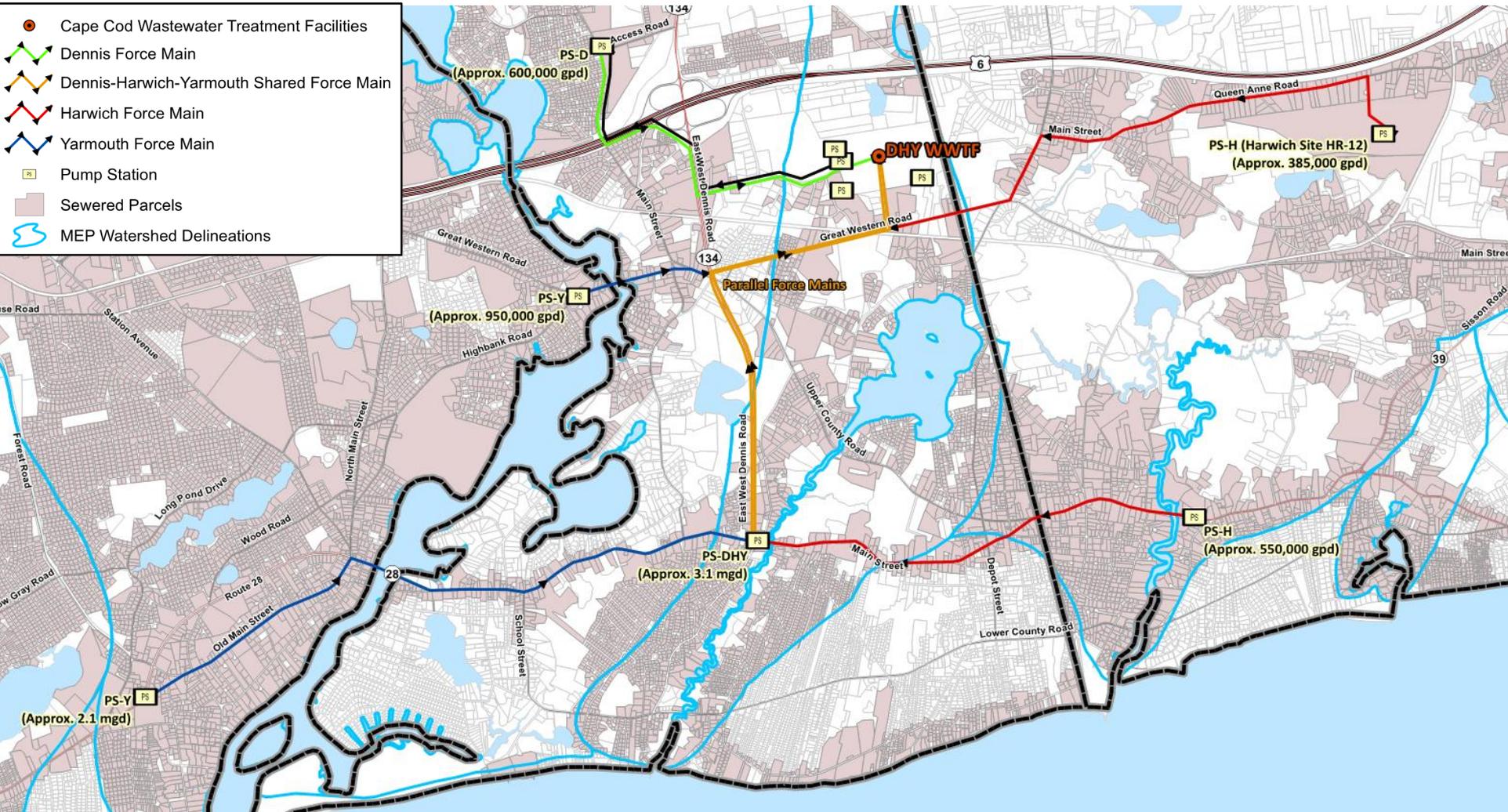




Closing Remarks



Regional Conveyance: North and South Connections



Summary of Shared Utilities

- A shared pumping station located near the intersection of Route 28 and Route 134 in Dennis
- Dual 20-inch force mains from the intersection of Route 28 and Route 134 into the DHY Wastewater Treatment Facility (WWTF)
- DHY WWTF at Dennis DPW site
- Piping to convey to multiple recharge/reuse sites
- Shared effluent recharge/reuse sites:
 - Dennis DPW (Site No. 1)
 - Yarmouth Bass River Golf Course
 - Harwich Site HR-12
 - Dennis Crowell Road (Site no. 2)
 - Dennis Pines Golf Course (Site No. 3)
 - Dennis Highland Golf Course (Site No. 5)

DHY WWTF at Dennis DPW Site



Doing Nothing Is Not an Option

2015 Three Bays Economic Study

