



Water Resources Management Update

Barnstable Town Council

**Department of Public Works
June 15, 2023**



Phase 1 Efforts to Protect Barnstable's Water Resources



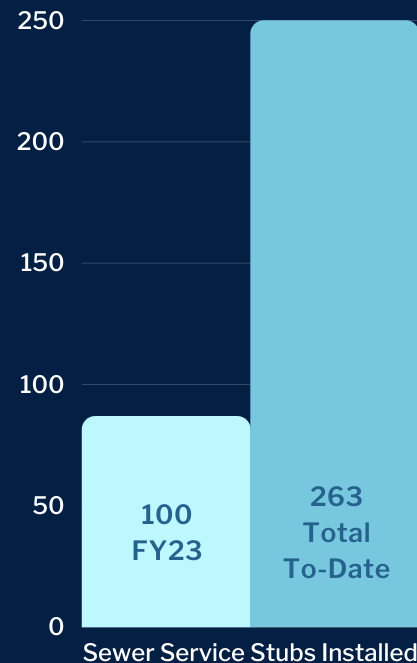
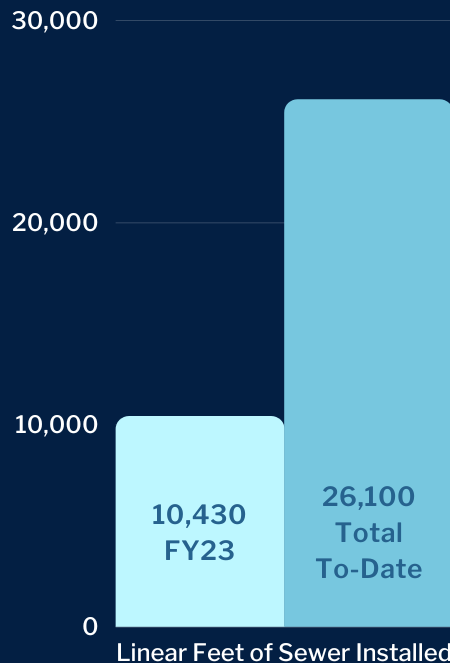
Year 2
of 10 year implementation schedule



Centerville River Watershed
treated by current Phase 1 projects



Spring 2024
anticipated date for first connections



Strawberry Hill Road Sewer Expansion Project

Project Status: Construction completed

Strawberry Hill Road
Sewer Expansion Project
(Yellow)

95%
COMPLETE

Sewer Construction:

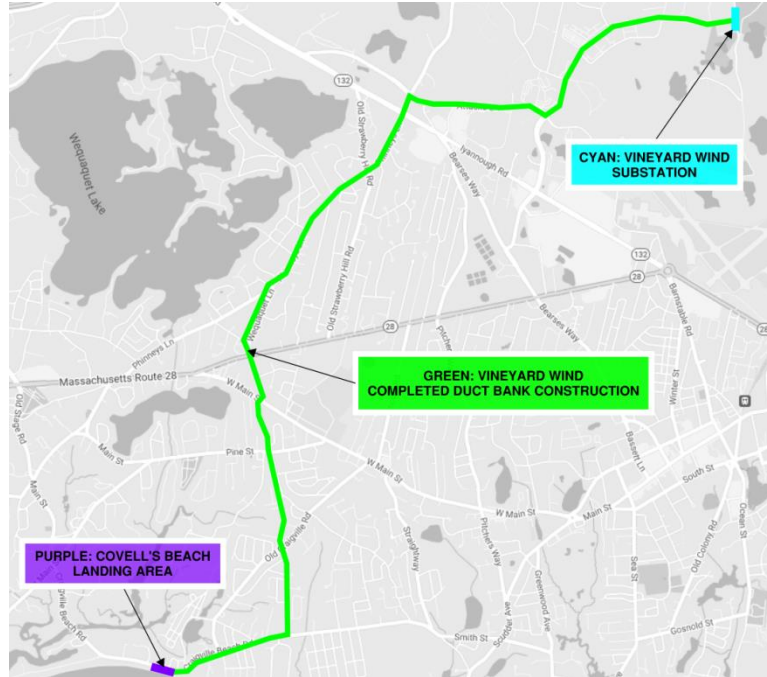
- Sewer construction completed on-time and on budget
- Sewer service riser construction anticipated this fall
 - Work will occur in the shoulder, does not require digging within the roadway
 - Includes a targeted section of properties along the project route, south of Route 28
- Anticipated sewer availability for first connections in Spring 2024

Strawberry Hill Road Sewer Pump Station:

- Electrical service for the pump station anticipated to be completed this fall



Vineyard Wind Project



Project Status: Duct bank installation and cable pulling complete

Remaining work:

- Cable splicing and testing along the project route
- Requires single-lane alternating traffic
- Will resume in this fall

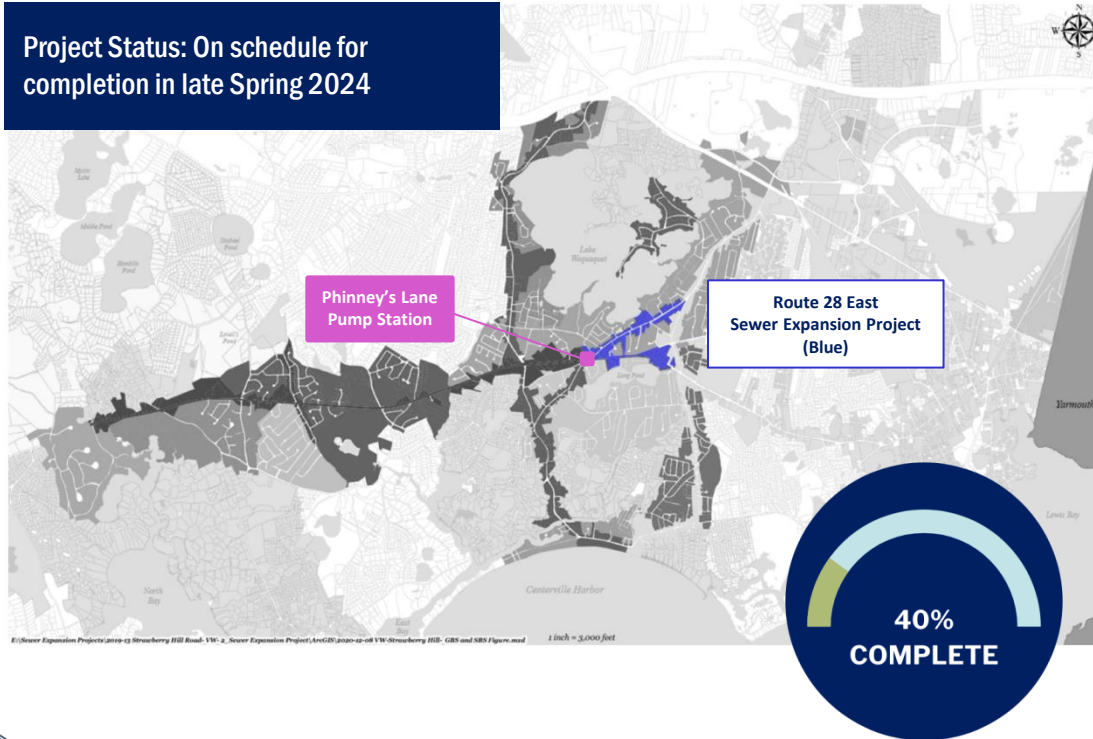
Anticipated final paving schedule of disturbed roadways:

- Spring 2023:
 - Craigville Beach Road – complete
 - Strawberry Hill Road (Craigville Beach to Pine Street) – complete
- Fall 2023:
 - Attucks Lane – scheduling in progress
 - Strawberry Hill Road (Pine Street to Route 28)
 - Phinney's Lane
 - Wequaquet Lane



Route 28 East Sewer Expansion Project

Project Status: On schedule for completion in late Spring 2024



Off-Road Sewer Construction:

- Barnstable Intermediate School
 - Beginning Monday, 6/19
 - Work will take place in the shared used path in front of the school
 - ADA-compliant pedestrian detour will be available
- Water Pollution Control Facility
 - Site preparation has commenced
 - Construction anticipated week of 7/3
 - Work will begin in the shoulder in front of Structures and Grounds advancing 'cross country' toward the WPCF

Phinney's Lane Pump Station:

- Installation of upper deck and support system on-going



June 2023



Water Pollution Control Facility

Solids Processing Facility Upgrades

- Construction continues to advance
- Project anticipated to reach completion before the end of 2023

Nitrogen Removal and Headworks Improvements

- Nutrient removal conceptual design in review

Effluent Disposal Evaluation

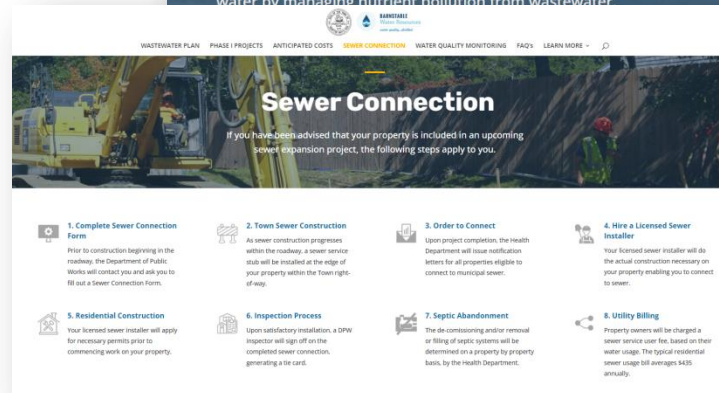
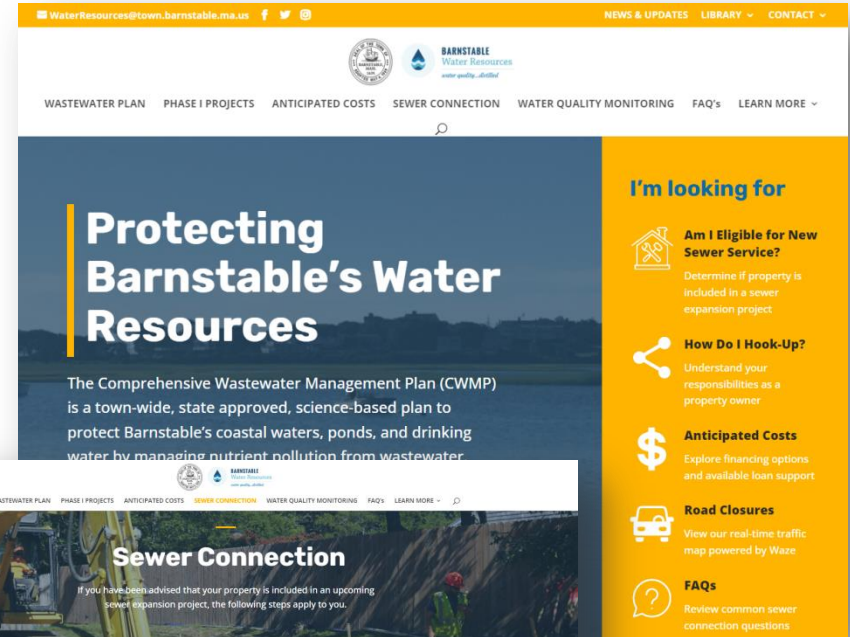
- Contracting for next phase of work



CWMP Communications

Barnstable Water Resources Update

- Soft launch of redesigned homepage and main interior pages
- Modified navigation and improved search functionality
- Mobile friendly optimization
- Accepting feedback from Barnstable Water Resources subscriber list



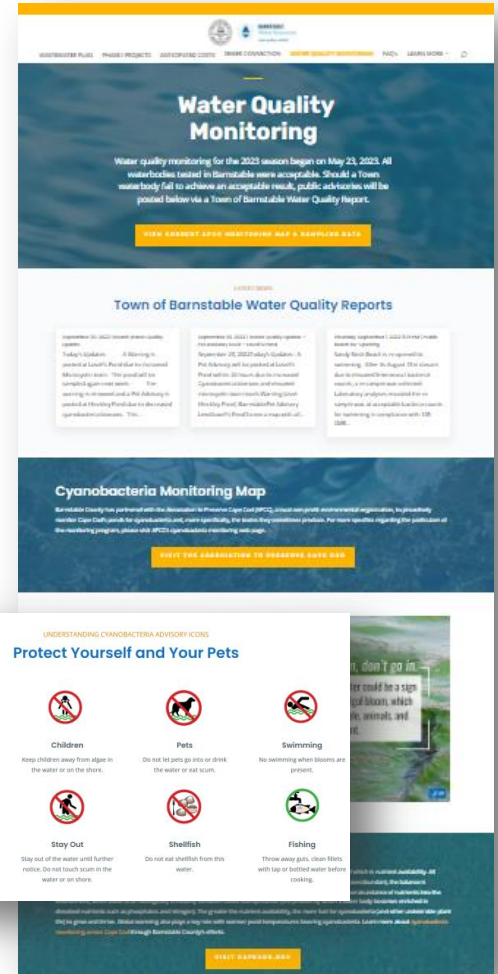
Water Quality Monitoring

Cyanobacteria Monitoring

- Resumed 5/23/23 in collaboration with Town's consultant, Association to Preserve Cape Cod (APCC)
- Updates and reports posted at:
BarnstableWaterResources.com/Water-Quality-Monitoring

Embayment Monitoring

- Annual Embayment Monitoring will resume on 7/6 – 7/7
 - For shared estuaries, additional samples are collected by Yarmouth (Lewis Bay) and Mashpee (Popponessett Bay)
- Key element in CWMP monitoring program
 - Overview of program presented at 10/20/22 Town Council Meeting by Senior Project Manager, Amber Unruh:
<https://streaming85.townofbarnstable.us/CablecastPublicSite/show/10221?channel=1&seekto=9629>





A serene landscape featuring a calm body of water that reflects the sky and distant houses. The sky is filled with soft, white clouds, and the water is still, creating a clear reflection. In the background, several houses with light-colored walls and dark roofs are visible, nestled among trees. The overall scene is peaceful and scenic.

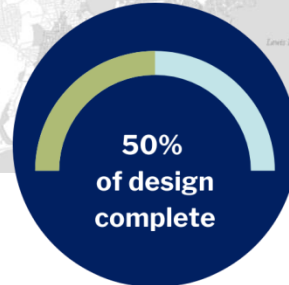
Resources

Centerville Village Sewer Expansion Project

Project Status: Construction anticipated to commence in 2024

Centerville Village
Sewer Expansion
Project (Purple)

E:\Sewer Expansion Projects\2019-23 Strawberry Hill Road-VW-4_Sewer Expansion Project\Arch\2021-22-08 VW-Strawberry Hill - GR0 and SR0 figure.mxd 1 inch = 3,000 feet



Expedites sewer expansion with roadways along proposed Park City Wind on-shore duct bank installation route

Project Details:

- Completed review of 50% sewer design plans
- Continuing efforts to site pump station locations and associated easement options

Outreach Efforts:

- Initial public comment periods have closed
- Evaluating all feedback and formalizing public comment summary, to be published on BarnstableWaterResources.com



Route 28 West Sewer Expansion Project

Project Status: Construction anticipated to commence in 2025

**Route 28 West
Sewer Expansion
Project (Red)**

**Preliminary
design**

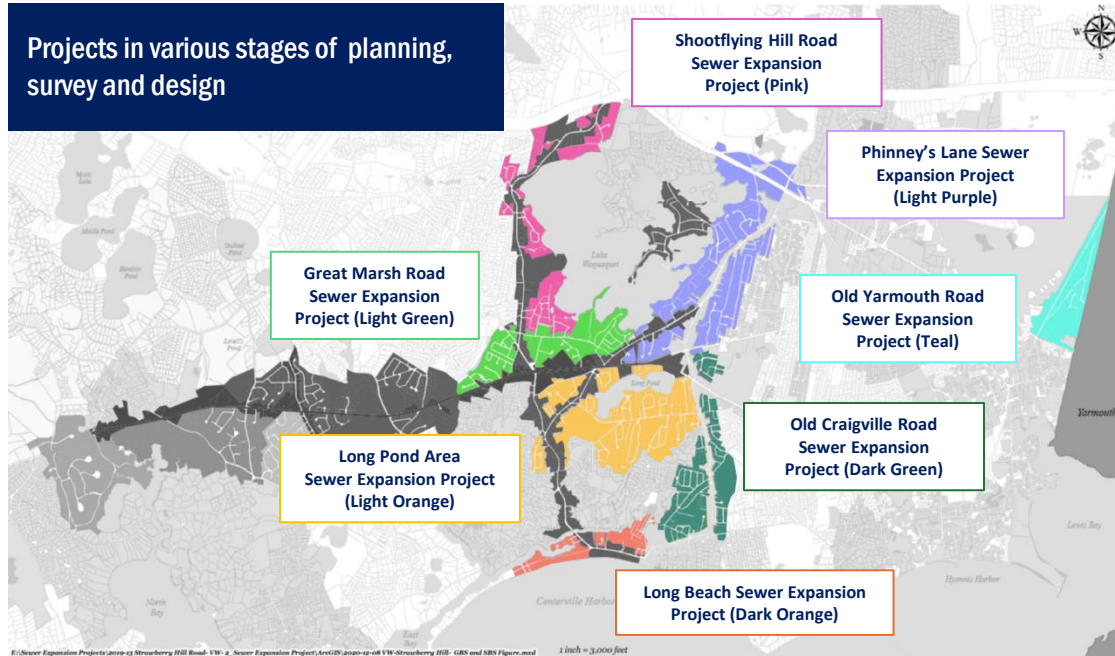
**Extends sewer on Route 28 from
Phinney's Lane to Route 149**

Project Details:

- Allows for sewer expansion in the Three Bays Watershed
- Design contract awarded to Weston & Sampson
- Preliminary design continues



Additional Sewer Expansion Projects in Design



Phinney's Lane Neighborhood Project:

- Internal design team has completed 30% design
- Continuing private roadway utility easement takings and siting of sewer pump stations
- Construction anticipated to commence in 2025

Old Craigville Road, Old Yarmouth Road & Shootflying Hill Road Projects

- Survey efforts ongoing
- Construction anticipated to commence in 2026 (Old Craigville), 2026 (Old Yarmouth) and 2027 (Shootflying Hill)

Long Pond Area Project

- Survey complete & design on-going
- Construction anticipated to commence in 2027

Long Beach and Great Marsh Road Projects

- Preliminary design funding proposed in FY24 Capital Budget
- Construction anticipated to commence in 2027 (Long Beach) and 2028 (Great Marsh)

