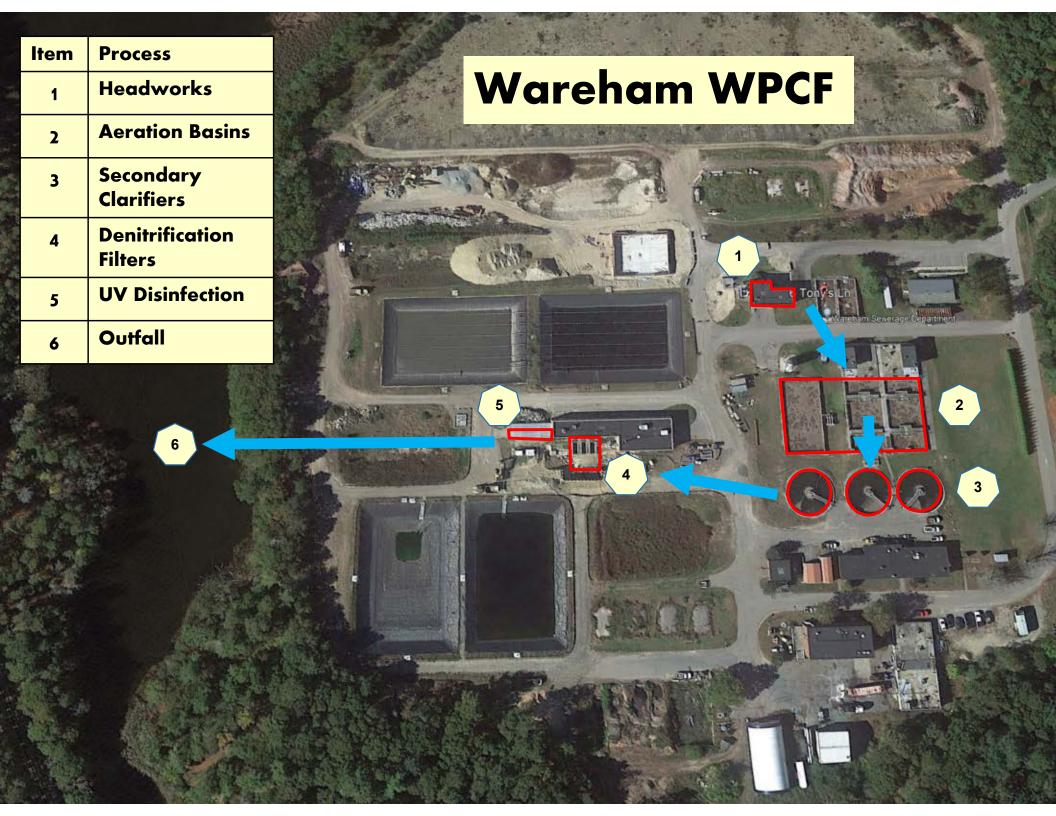
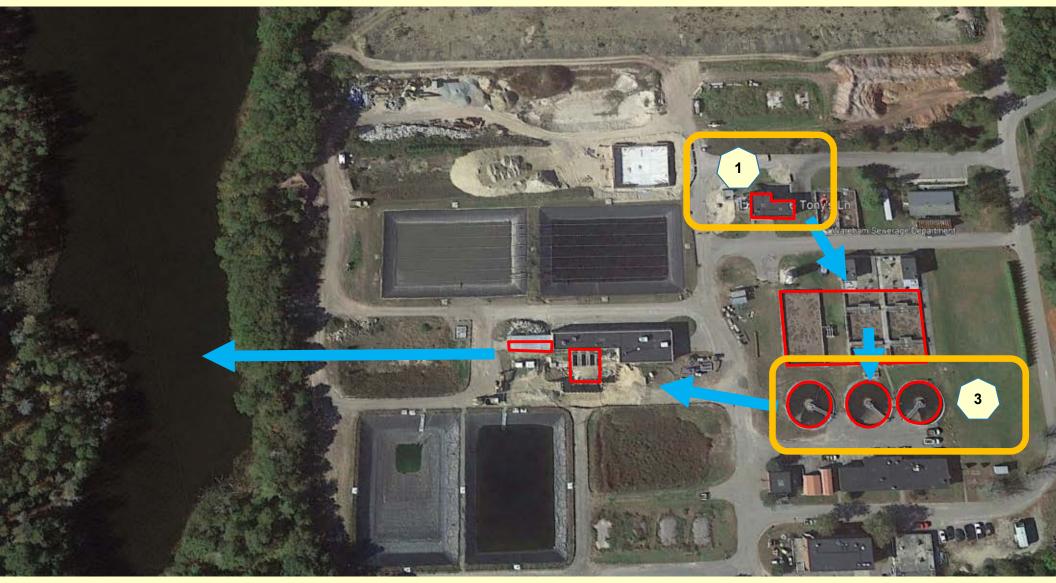
Wareham Water Pollution Control Facility (WPCF) Clarifier and Headworks Upgrade Project Fall Town Meeting Article 26





Article 26 - Clarifier and Headworks Upgrade



- Most of the existing water pollution control facility is at or beyond its life expectancy (20 years)
- Although many needs have been identified over the years, there are two needs that have become urgent

Headworks Upgrade

- The first process in the treatment facility and gets the most abuse as it protects sensitive downstream
- Air is highly corrosive
- Equipment is corroding and failing
- Processes at its life expectancy of about 20 years





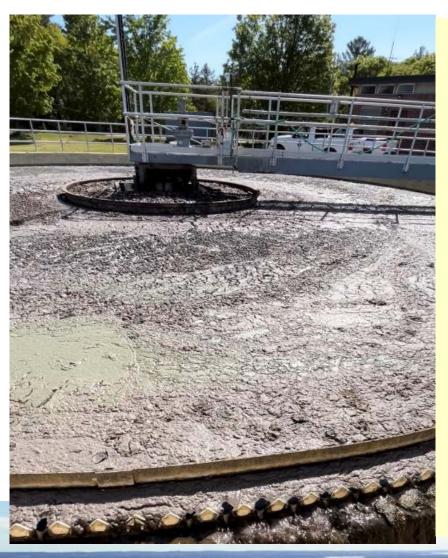




Rags and Grit Cause Issues and Add Additional Maintenance Costs



Clarifier Upgrade



- Critical to meeting the permit
- Clarifiers do not meet current design standards
- Most of the equipment is 40 years old, or double the life expectancy
- Clarifier equipment is failing

Working vs. Broken Clarifier



Criticality of Facility Permits



- Environmental contamination
- Beach Closures
- Regulatory fines (Consent Order)
- Loss of access to State funding

City of Quincy Agrees to Remedy Discharges of Stormwater Containing Sewage

Cost of remedial measures is expected to be in excess of \$100 million

June 9, 2021

Contact Information

David Deegan (<u>deegan.dave@epa.gov</u>) (617) 918-1017

BOSTON – The U.S. Attorney's Office and the U.S. Environmental Protection Agency (EPA) New England regional office has entered into a consent decree with the City of Quincy, Mass. to resolve violations of the Clean Water Act regarding the City's stormwater and sanitary sewer systems. Water sampling indicated untreated sanitary sewage discharging from numerous Quincy stormwater outfalls, including outfalls discharging at beach areas.

How much is this work needed?

- Some needs were identified as far back as 8 years ago
- Within 2 years, all equipment that is the subject of this project will be beyond its useful life. The project will take up to 4 years to complete.
- The need for this work is urgent

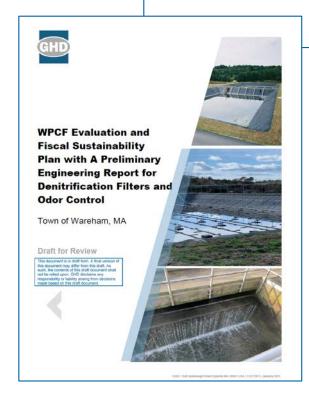




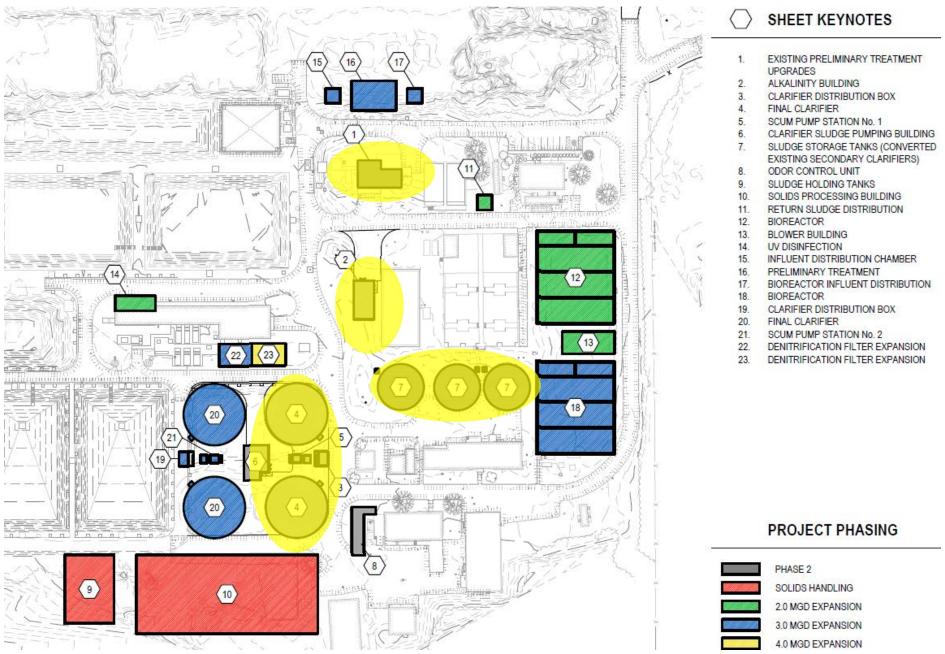
Wareham, Massachusetts

Capital Improvement Plan Water Pollution Control Facility

September 2015



This work is NOT a Bandaid, it's a Foundation for Future Growth as part of Planning Efforts



What else is needed?

Centralized Wareham WPCF Upgrades (Treatment Only)

Phase	Facility Capacity (Average Annual)		Estimated Project Costs (2023\$)	Status
1	1.5 mgd	- Equipment / process upgrades to age related needs		Completed
2	1.5 mgd	Equipment / process upgrade to address age related needsFoundation for future facility expansion	\$36 M	In Design
2a	2 mgd	- Facility expansion to treat peak flows (without storing raw wastewater)	\$50 M	Future (larger capacity for entirety of facility)
3	3 mgd	- Facility expansion (1 mgd of capacity)	\$55 M	As needed to get another 50% increase in capacity
4	4 mgd	- Facility expansion (1 mgd of capacity), if needed	TBD	Beyond 20 year planning period

What else is needed?

- > Centralized Treatment and Discharge
 - Solids handling
- > Effluent Discharge
- > Collection System
 - Existing collection upgrades / replacement
 - Sewering to meet environmental needs

Upgrades Include

Replacement of equipment that has exceeded its life expectancy

Design considers the future needs of the town

Anticipated costs

Up to \$36M

How will it be paid?

Minimum of 10% principal forgiveness
17% by Bourne through IMA
Remaining balance funded through sewer budget; will cost
Wareham users approximately \$46 per year per user

Proposed Schedule

(as required by SRF funding cycle)

Milestone	Tentative Date	
Submit Project Evaluation Forms (SRF Funding)	Mid-August 2022	
Approve Design Funds (Fall Town Mtg.)	Fall 2022	
Approve borrowing authorization (Town Mtg.)	October 2023	
Submit SRF application to DEP (last day)	October 2023	
DEP Authorization to Bid	January 2024	
Notice to Proceed	June 2024	
Begin Repayment of Loan Debt	2027	
Town Action Required		

If the Town wishes to be considered for this funding, the Town must approve the borrowing in Fall Town Meeting or the state will give funding to other communities.

Summary

Article 26 – Construction Cost For WPCF Projects

Clarifier and Headworks Upgrades