

Agenda

- 1. Purpose & Requirement for Planning
- 2. Coventry Wastewater Management
- 3. Planning Areas and Census Tract Mapping
- 4. Public Participation
- 5. Needs Assessment
- 6. HS OWTS Condition and Alternatives Assessment
- 7. Selected Recommended Plan
- 8. Intergovernmental Review Agency Summary
- 9. Typical Timeframe for Sewer Extension
- 10. Anticipated Implementation Schedule
- 11. Opinion of Cost
- 12. Potential Funding Sources
- 13. Sewer User Rate Impacts



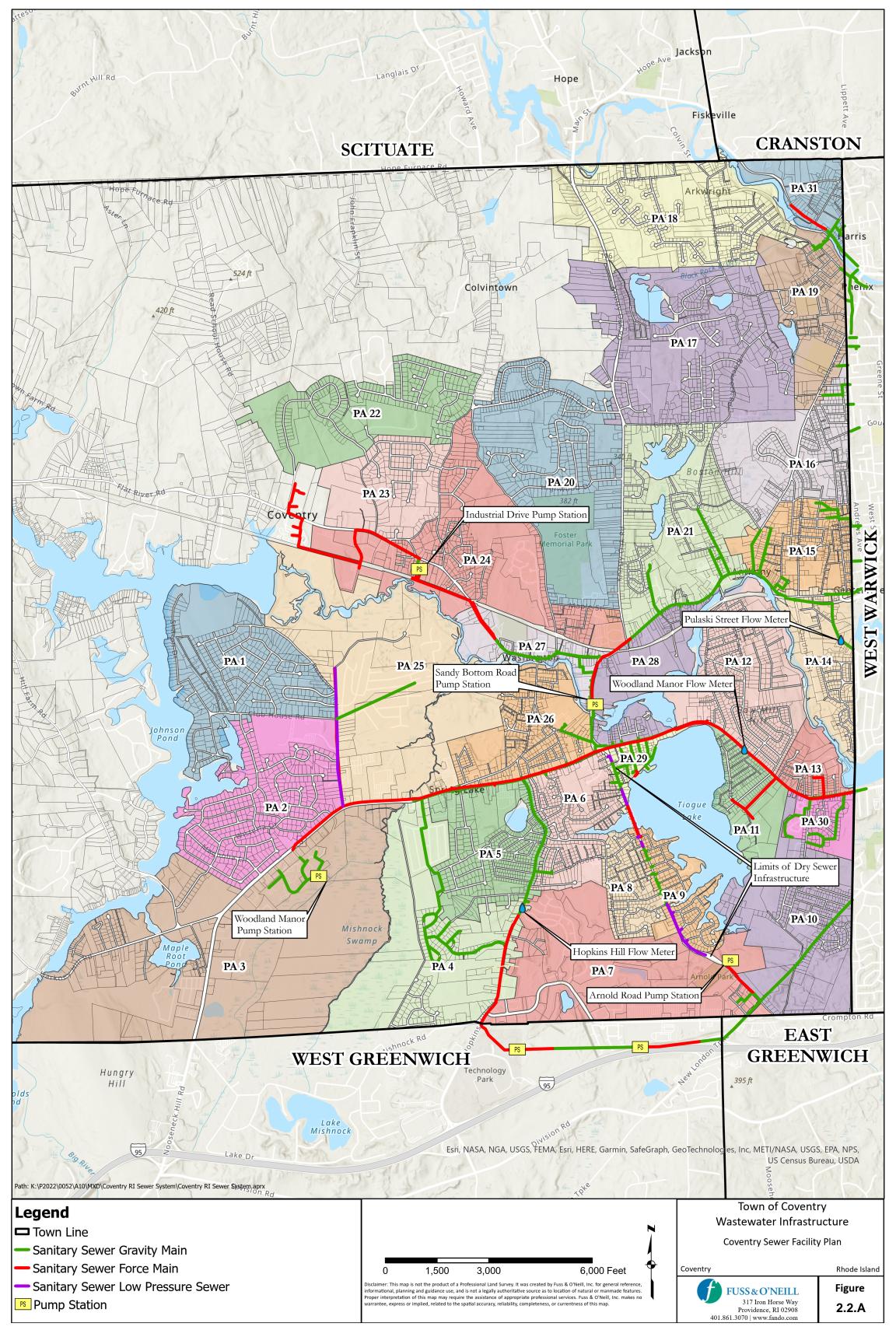
Wastewater Facility Plan Purpose

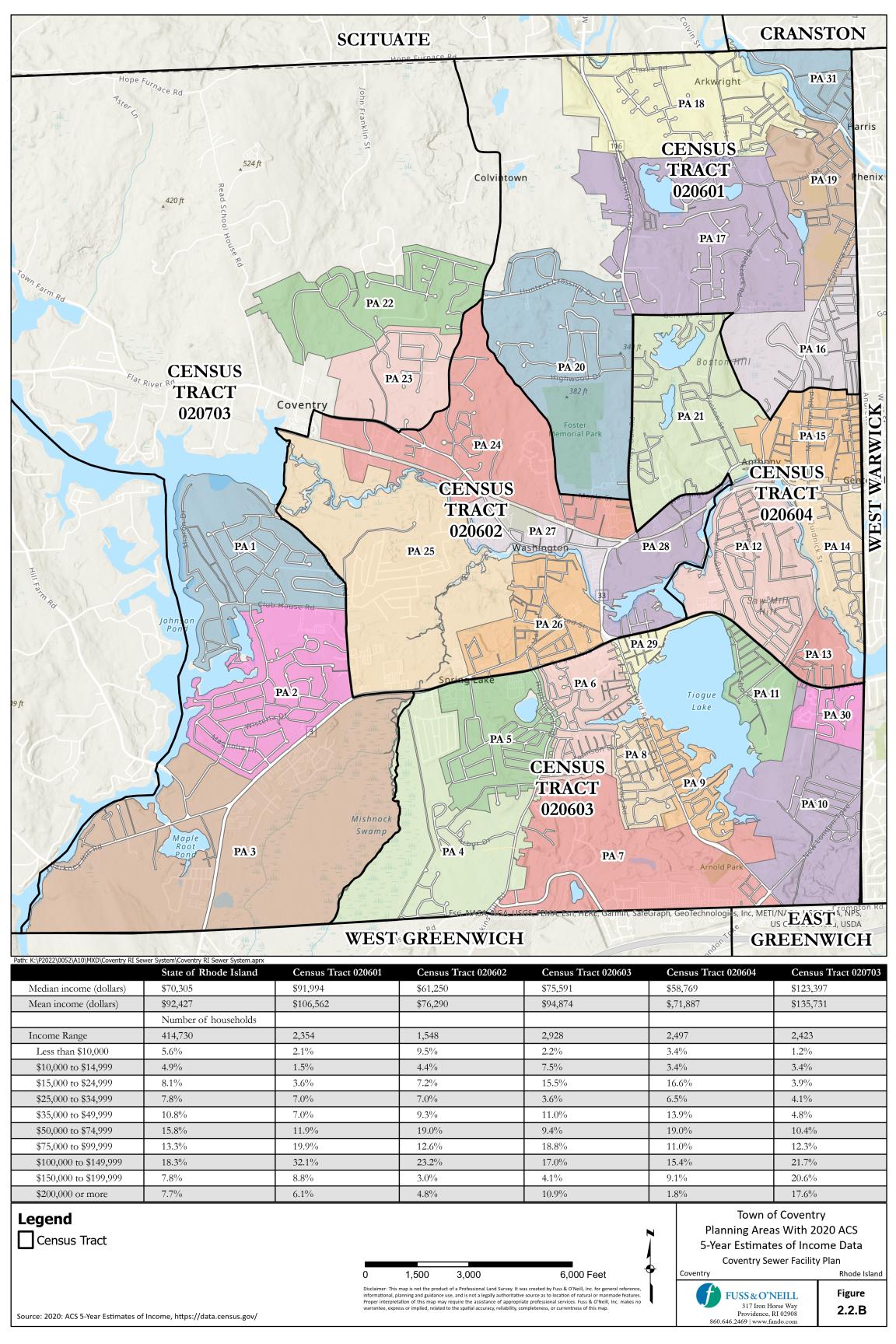
Facility Planning Required Every Five Years Per Rhode Island Department of Environmental Management (RIDEM) Regulations

- Facility Plan process required so the Town and its sewer projects are eligible for State Revolving Fund Loans or Municipal Grants.
- Any Sewer Projects must be added to RIDEM's Project Priority List.
- Public Participation is a Key Requirement.
- Sewer Facility Plan must dovetail with Town's Comprehensive Community Plan, Onsite Wastewater Management Plan and Sewer Ordinance.









Public Participation

- Developed Facility Plan Flyer
 - Posted to Town's Website
- Developed Questionnaire
 - Mailing to Parcel Owners in Eastern Portion of Town per DRAFT Planning Areas
- Presentation to Tiogue Lake Association on August 31, 2022
- Facility Plan General Public Open House on November 17, 2022
- 90% Facility Plan Presentation at TC Meeting on April 11, 2023







WHY?

Sewer Facility Plan Update Required by RIDEM

Facility Planning by Town of Coventry's Consultant Fuss and O'Neill Inc.

(Summer 2022 - Winter 2023)



PARCELS WITH ON-SITE SYSTEMS

Systems compliant with standards may remain.

Repair or replace with advanced system.

RESOURCES AVAILABLE TO YOU:

Community Septic System Loan Program (CSSLP)

https://www.Rihousing.Com/ community-septic-system-loanprogram-csslp/

Licensed Inspectors, Designers

https://dem.Ri.Gov/environmentalprotection-bure au/water-resources/ permitting/septic-onsite-wastewater treatment-3

Not every parcel needs sewer access.

SEWER FACILITY PLANNING

Planning areas based on sensitive areas, constricted lot sizes with failed ISDS.

Recommendations may include shared treatment and groundwater discharge, or sewer extension with goal to minimize assessments, especially for areas with limited income.

Need will determine priority for phased sewer extension or community-based shared systems.

PARCELS ALREADY SEWERED

Tiogue Avenue, and areas in Eastern Districts will continue to have sewer service and receive usage invoices.



Planned Changes

PUBLIC PARTICIPATION

A questionnaire will be mailed directly to neighborhoods in Eastern Districts

If you receive the questionnaire, please respond!

Before the facility plan is finalized, the public will be invited to participate in:

Your rticipation is nportant!

OPEN HOUSE

PUBLIC HEARING

FALL 2022 WINTER 2022

Dates will be posted on the Town's website.

https://www.coventryri.org/sewer-authority

Needs Assessment/Matrix Evaluation

Evaluation Criteria					
Environmental Impact	Affordability	OWTS Issues Reported in Survey in Planning Areas	Site Suitability for Continued Use of OWTS		
Factors Considered					
 ✓ Proximity to impacted waterbody ✓ Proximity to wetlands 	 ✓ Census tract median household income ✓ Approximate cost to construct sewer ✓ Necessity for wastewater pump station ✓ Depth to bedrock ✓ Potential for ARPA Funding 	 ✓ Percentage of reported cesspools ✓ Reported age of existing OWTS ✓ Percentage of repairs reported ✓ Percentage of problems reported ✓ Percentage concerned about onsite wastewater treatment 	 ✓ Median Lot Size ✓ Parcel Density ✓ Soil suitability for continued onsite wastewater treatment systems 		



Matrix Evaluation Results

Planning Area	Priority Ranking	
9	61	
2	60	
12	58	
21	55	
17	53	
1	52	
5	51	
11	51	
26	50	
6	49	
15	49	
8	46	
3	46	
18	46	
20	46	
24	46	

Planning Areas 9 & 8 | Matrix Ranks 1 & 12

- Potential ARPA Funding
- Adjacent to Tiogue Lake which has experienced elevated levels of fecal indicator bacteria
- Presence of cesspools reported in area
- Existing dry sewer infrastructure to convey wastewater to Tiogue Avenue sewer interceptor

Planning Areas 2 & 1 | Matrix Ranks 2 & 6

- Facilitates extension of wastewater infrastructure to future developments
- Presence of cesspools reported in area
- Adjacent to Johnson Pond

Planning Area 12

Matrix Rank 3

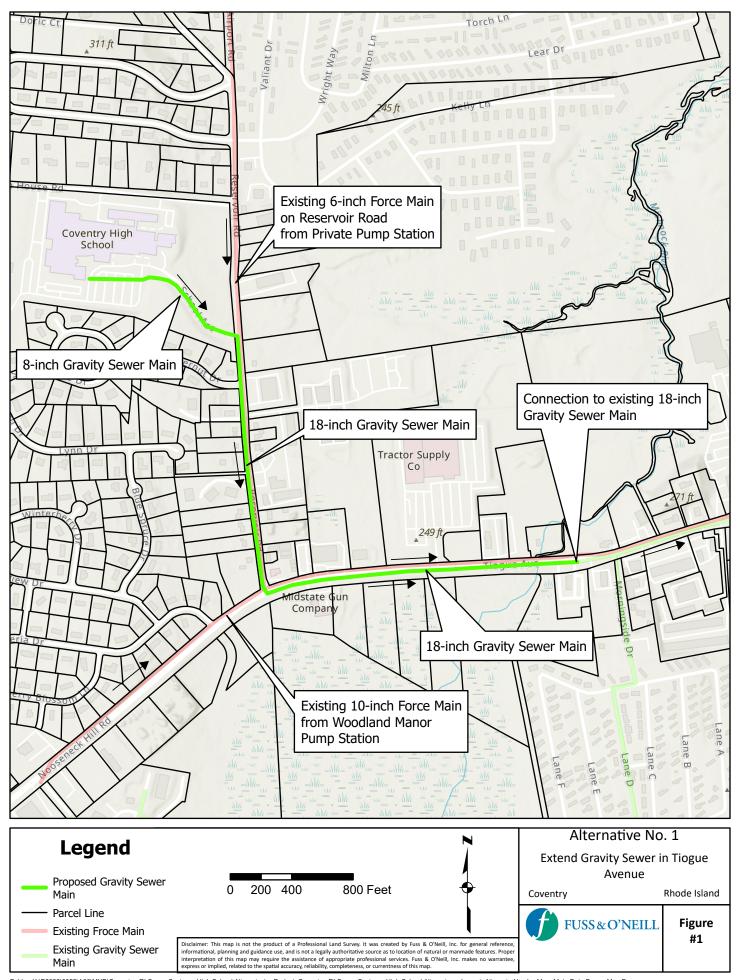
- Adjacent to existing Tiogue Avenue sewer interceptor and Washington Street sewer interceptor
- Adjacent to South Pawtuxet River
- Generally made up of high density, low area properties
- Presence of cesspools reported in area



Coventry High School OWTS

Alternatives	Description	Budgetary Opinion of Cost	Comment
No. 1	Extend Gravity Sewer from Tiogue Avenue to the High School Site	\$4,220,000 (Range -30%/+50%: \$2,360,000 to \$5,060,000)	Recommended: Aligns with the Town's Wastewater FP. Investment in the Town's long-term sewer infrastructure and enables future sewer service to Planning Areas 1 and 2.
No. 2	Construct EQ Tank and Pump Station at the High School, Tie into Existing Force Main on Reservoir Road.	\$2,540,000 (Range -30%/+50%: \$1,430,000 to \$3,050,000)	
No. 3	On-Site Passive Treatment System with Groundwater Discharge	\$5,950,000 (Range -30%/+50%: \$3,340,000 to \$7,140,000)	Not Recommended: These only serve the High School parcel. Pursuit of these alternatives will result in sunk costs when considering the long-term sewer extension to Planning Areas 1 and 2 recommended in the FP.
No. 4	On-Site Active Treatment System with Groundwater Discharge	\$4,950,000 (Range -30%/+50%: \$2,780,000 to \$5,940,000)	





PLANNING AREAS RECOMMENDED PLAN