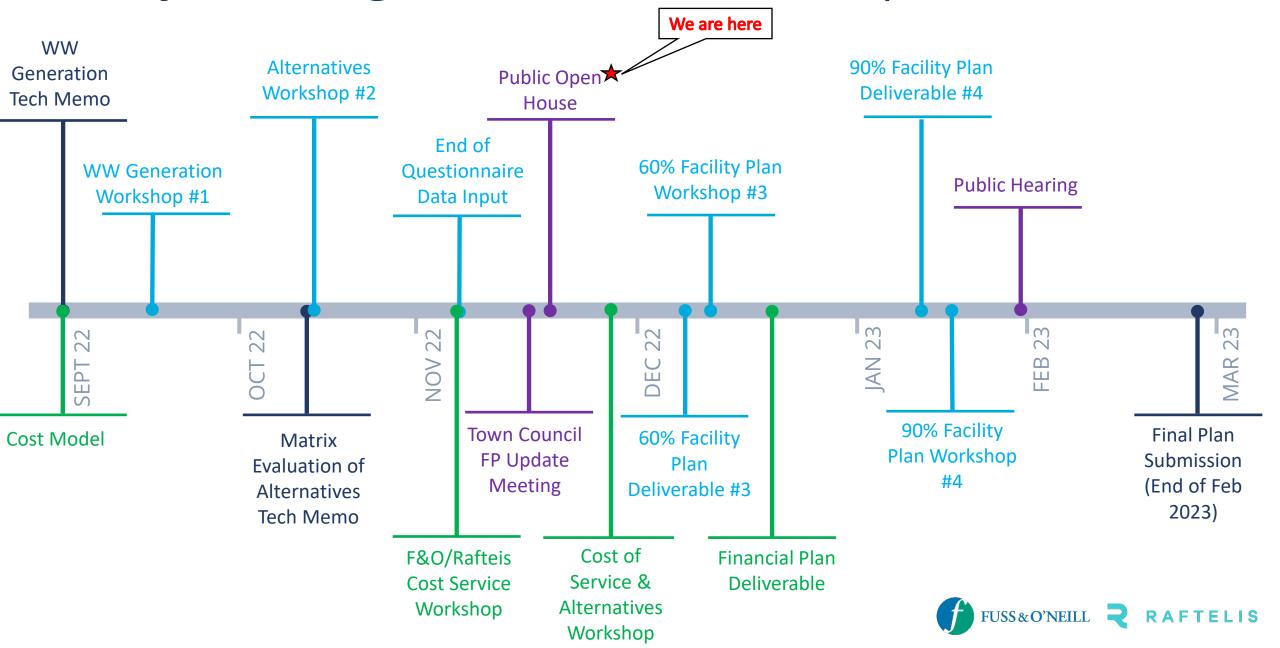


## Facility Planning Milestones and Anticipated Schedule



# Story Boards for Open House

- 1. Informational Flyer
- 2. Coordination of Town Documents
- 3. Upper Dam Pond & Tiogue Lake Water Quality Studies
- 4. Questionnaire Results (Public Input)
- 5. Planning Area & Census Tract Mapping
- 6. Potential Funding Sources
- 7. Matrix Evaluation of Prioritized Sewer Extensions
- 8. Cost Modeling
  - 1. Do Nothing
  - 2. Alternate Cash Flow
  - 3. Customer Impacts Based on Alternate Cash Flow
  - 4. Comparison of Septic and Sewer Customer Based on Alternate Cash Flow
- 9. Typical Timeline for a Sewer Extension Project









### 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)

Public Awareness

## 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-bureau/water-resources/ permitting/septic-onsite-wastewatertreatment-3

Not every parcel needs sewer access.

## SEWER FACILITY PLANNING

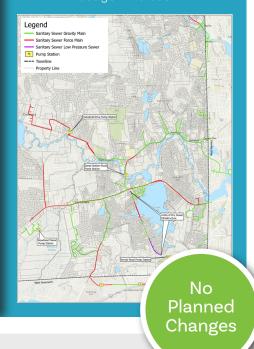
Planning areas based on sensitive areas, constricted lot sizes with failed ISDS.

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.



### **PUBLIC PARTICIPATION**

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

#### **OPEN HOUSE**

DATE: Thursday November 17, 2022

TIME: 6:30 - 8:00 pm

LOCATION: Coventry Resource and Senior Center - 50 Wood Street

#### **PUBLIC HEARING**

#### **WINTER 2022**

Date will be posted on the Town's website.

Your participation is important!

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

## Coordination of Town Documents

# **CURRENTLY UNDERWAY**

Sewer Facility Plan by Fuss and O'Neill & Coordination with BETA Community
Comprehensive Plan by BETA & Coordination
with Fuss and O'Neill

# FUTURE NEEDS

## Onsite WW Mgt Plan

- Coordination of FP Sewer Planning Areas & Onsite System Areas
- Key to Community Septic
   System Loan Program
   Participation

### Sewer Ordinance

- Consider Ordinances from Other Towns
- Coordination of Cost of Service & FP Recommendations

# Intermunicipal Agreement (IMA) with West Warwick

 Coordination of sewer ordinance, fees, legal requirements for adjacent Towns connected to Coventry's collection system.

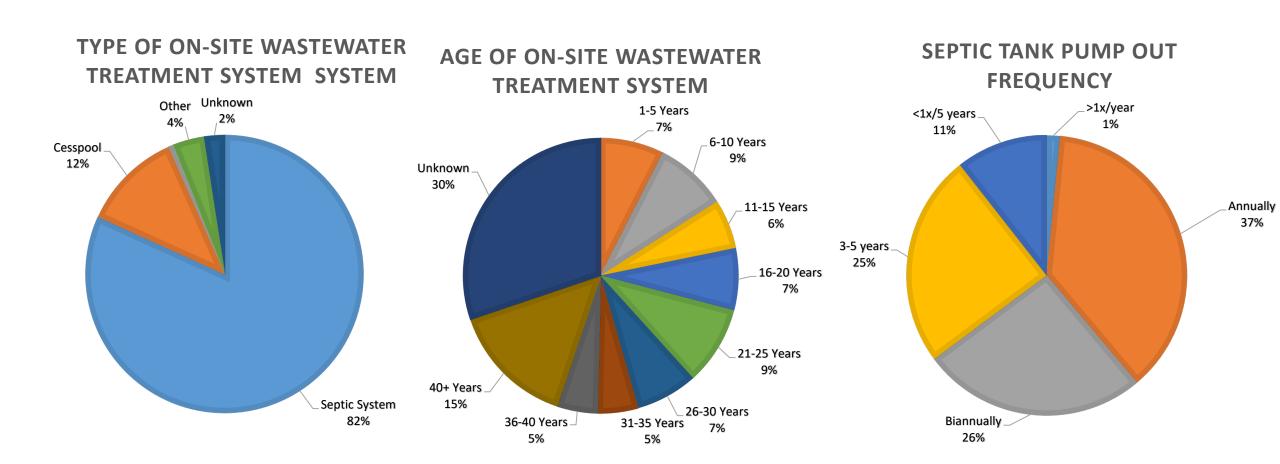


# Upper Dam Pond & Tiogue Lake Water Quality Studies

- Incorporate results of previous water quality studies
  - Upper Dam Pond June 2019
  - Tiogue Lake August 2022
- External source(s) having negative impact on water quality, such as:
  - Stormwater Runoff,
  - Failing Septic System(s),
  - Illicit Discharge(s)
- Upper Dam Pond Phosphorus Loading
- Tiogue Lake Bacteria (Enterococcus)

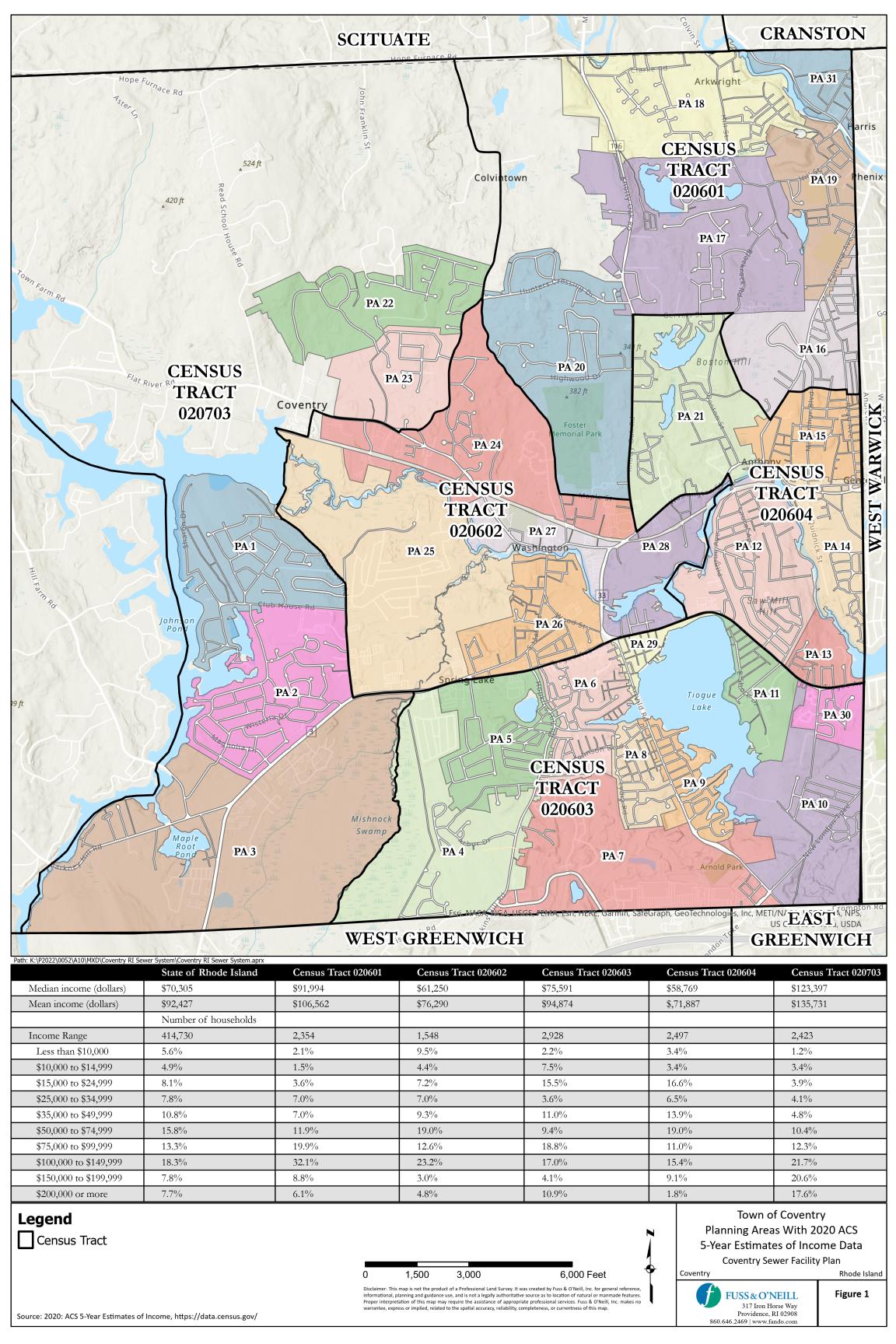


# Questionnaire Results (Public Input)



Over 1,600 Responses out of 9,000 requests (18%)





## Potential Funding Sources

- American Rescue Plan Act (ARPA) Funds
  - Briar Point Sewer Extension and Arnold Road Pump Station
  - Woodland Manor Pump Station
  - Sandy Bottom Pump Station
- RIDEM/RIIB SRF Loan and Loan Forgiveness Determination
  - Facility Plan SRF Loan Availability
- RIIB Municipal Resilience Program & Action Grants
- RIIB Municipal Infrastructure Grant Program





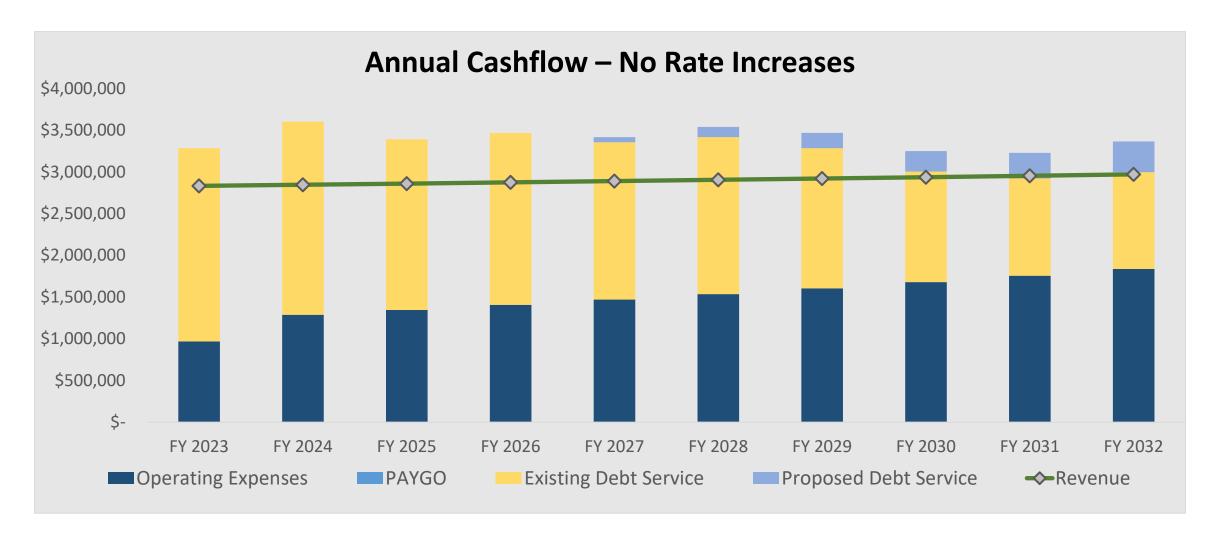




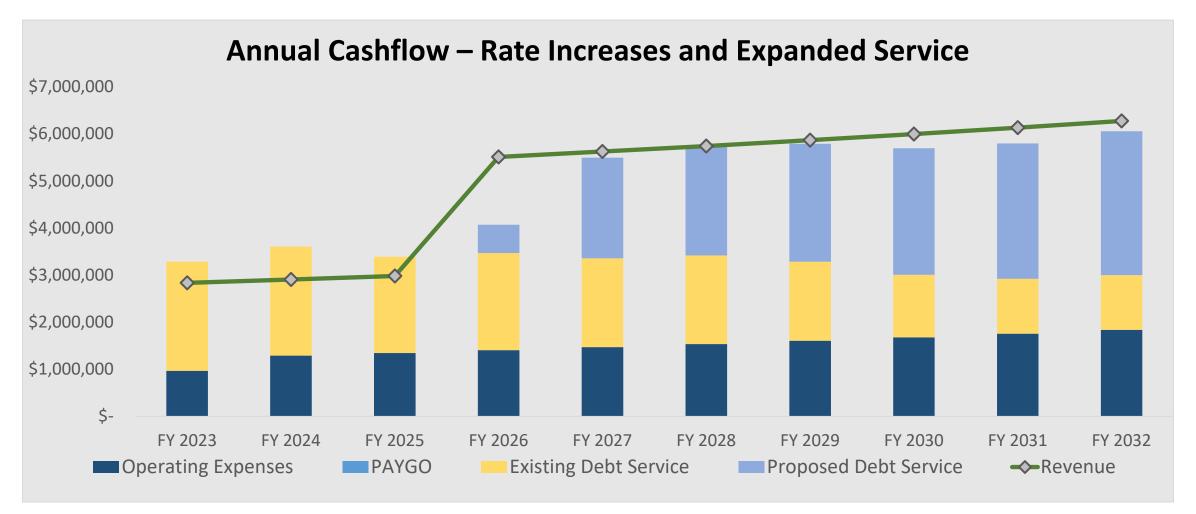
## **Matrix Evaluation**

| Evaluation Criteria  |  |  |   |
|--|--|--|---|
| Environmental Impact   | Affordability  | Onsite Wastewater Treatment System Problems In Planning Areas  | Site Suitability for Continued Use of Onsite Wastewater Treatment System  |
| Factors Considered   |  |  |   |
| <ul> <li>✓ Proximity to impacted waterbody</li> <li>✓ Proximity to wetlands</li> </ul> | <ul> <li>✓ Census tract median household income</li> <li>✓ Approximate cost to construct sewer</li> <li>✓ Necessity for wastewater pump station</li> <li>✓ Depth to bedrock</li> </ul> | <ul> <li>✓ Percentage of reported cesspools</li> <li>✓ Reported age of existing OWTS</li> <li>✓ Percentage of repairs reported</li> <li>✓ Percentage of problems reported</li> <li>✓ Percentage concerned about onsite wastewater treatment</li> </ul> | <ul> <li>✓ Median Lot Size</li> <li>✓ Parcel Density</li> <li>✓ Soil suitability for continued onsite wastewater treatment systems</li> </ul> |









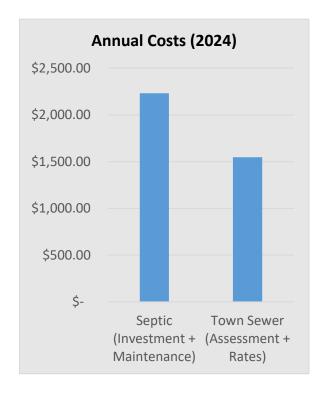
- Requires 5% rate increases annually, starting in FY 2024
- Assumes \$15,000 assessments for new connection

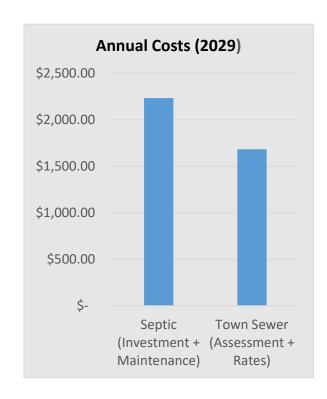


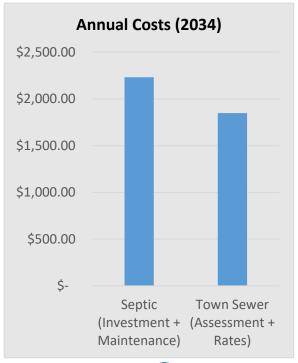
- Customer Impacts for Existing Customers
- A typical residential customer is currently paying approximately \$630 per year for sewer service. With the first step (FY24) of the alternative financial plan, that same customer's bill would increase to approximately \$655 per year. This amounts to an increase of:
  - \$25 per year
  - \$6 per quarter
  - \$2 per month
  - \$0.07 per day
- Similar increases are assumed to occur annually over the 10-year planning horizon, although the financial plan will be updated annually, and necessary adjustments will be made



- Customer Impacts for New Customers
- New customers to the sewer system are assumed to be required to pay a \$15,000 assessment, amortized. An alternative to connecting to the system would be an investment and on-going maintenance of a private septic system



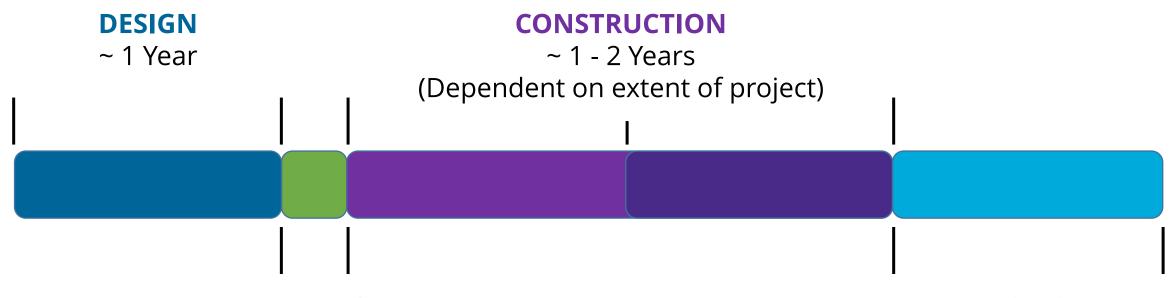






## TYP. Timeframe for a Sewer Extension Project

Approximately 3 to 4 years



BIDDING,
CONTRACTOR SELECTION,
OWNER-CONTRACTOR
AGREEMENT

~ 3 Months

### PERMIT TO CONNECT

1 Year

- Properly decommission existing onsite wastewater treatment system
- Extend building outlet to collection system.



