

The Infrastructure Committee has identified and researched five possible approaches to manage any possible water/sewer issues in Irvington in order to bring our town into full compliance with the Chesapeake Bay Preservation Act and to fulfill Irvington's commitment of stewardship for Carters Creek. Our research has centered around the following five approaches:

- 1).connect with Kilmarnock's sewage treatment system
- 2).possible connection with White Stone's new system
- 3).build our own central sewer collection system
- 4).utilize decentralized systems
- 5).simply identify the actual number and locations of failed systems and identify strategies for their repair or upgrade to engineered systems.

We have taken this research as far as we can go without professional expertise. Prior to engaging an engineering firm to do a costly detailed economic feasibility study, we propose the formation of a subcommittee, to assess need, to determine the relative costs, advantages and disadvantages of these five (or more) approaches, to explore alternative energy sources-as appropriate, and to prepare a report for stakeholders prior to the community-wide survey this spring.

In the survey prior to the 2017 Comprehensive Plan, residents demonstrated a strong bias for Irvington remaining a residential community of single family homes; only 32% expressed interest in a central sewer prior to any understanding of the cost implications. To be fair, excepting Mr. Sulick's conclusion that connecting to Kilmarnock was not economically feasible, NO information was provided to residents regarding possible approaches and relative costs. We can do better.

Goals:

- assess need for a change- What is the failure rate for existing septic systems? What is the factual environmental need with respect to water quality in Carters Creek? What kinds of contamination are present in water tests?
- explore EPA recommendations for rural communities for septic/energy use.
- gather further information about the five approaches mentioned above
- meet with Kilmarnock representatives to fully understand current connection costs and ongoing monthly costs for "out of town" customers, as well as,

what part of the engineering studies and other costs they will share. Update likely construction costs.

-explore the Tides Inn, Julian Patterson's, and Vineyard Meadows interest in a central sewer system and what alternatives they see as available, as well as, potential financial contributions.

-develop a summary of findings for stakeholders

-help develop questions for the coming town survey which seek feedback on the various approaches: outline the costs to the property owner of each approach; and ask which approach(es) the property owner supports. What is the likelihood this property would be committing to hooking up to public septic at (projected cost/household)?

-depending on the results of the coming survey, we can explore the availability of state and federal grants and/or loan programs

- if necessary, consider moving to the next step: a formal feasibility study- interviewing, interfacing with qualified engineering firms, and making a recommendation to Town Council.

The Committee- a subset of the TC Infrastructure Committee:

-keep it small and focused.

-fortunately we have qualified professionals and residents, invested in and committed to our community, and in promoting the public welfare.

We have spoken to the following people about serving on this committee:

1). Tom Chapman-engineer; BS in Engineering Science; MS in both Environmental and Chemical Engineering; career in water/sewer

2). Jeremy Taylor-engineer; currently the outside 3rd party inspector for both White Stone and Middlesex water/sewer projects

3). Gabe Del Rio-grant writer

4). Albert Pollard, Jr. -Va. State Legislature

5). Jackie Brown-Town Council; Infrastructure Committee

REPORT TO TOWN COUNCIL
INFRASTRUCTURE COMMITTEE RESEARCH ON WATER AND SEWER OPTIONS
JACKIE BROWN, COMMITTEE MEMBER

We identified the following options:

- 1).Connect with Kilmarnock's system
- 2).Possible connection with White Stone's new system
- 3).Build our own system
- 4).Utilize Decentralized Systems
- 5). Identify the number of failed systems and identify strategies for their repair or upgrade to engineered (mound) systems.