



Town of Pittsboro, North Carolina

Engineering Department

Memorandum

To: Mayor Bill Terry and the Town Board of Commissioners

From: Fred Royal, PE, Town Engineer 

Re: Sanitary Sewer Inflow and Infiltration (I&I) Rehabilitation Project Up-date

Date: October 12, 2015

Background and Discussion

This project is proceeding well and as planned. This memorandum is a project up-date as an informational item. This project has multiple benefits for the Town which may be summed up to more effectively manage, maintain and operate the gravity collection system (pipes and manholes) and to minimize emergency operations the wastewater treatment plant.

In addition to the system repairs, a new Sanitary Sewer Asset Management Plan and Prioritization Tool will be developed. This will be a dynamic plan and tool to assist staff with prioritization of needed sewer repairs in the future. Prioritization will initially be limited to the current project area but it will be expandable to the entire town's gravity collection system. Current GIS inventory data will be imported into the database as a starting point. The Town has invested in this GIS inventory data in the past so it will be imported in this plan. The plan and tool will utilize GIS and GPS digital technology and will require investment in software, staff training and field work. This plan, once developed and implemented, will also provide the town with a higher ranking in the competitive future grant and loan applications to the State Revolving Loan Fund program.

Below is a summarized list of the project purpose and elements:

- Reduce total phosphorus (TP) limits to Robeson Creek
- Reduce total nitrogen (TN) limits to Jordan Lake
- Reduce wet weather flows entering the WWTP
- Stabilize reclaimed water treatment and sales to 3M and future sales
- Minimize operational emergency procedures at the WWTP