

**CITY OF SOUTHPORT**  
**Annual Performance Report**  
**F/Y 2017/2018**

**1. General Information**

City of Southport Wastewater Collection System

David H, Fox (ORC -910- 233-4565) (Tom Stanley -910-233-4895 Back Up ORC)

Permit No. WQCS00137

Facility Located at 1010 North Howe ST.

**2. Description of Process**

The City Collection system consists of approximately 18.25 miles of gravity sewer, approximately 2.0 miles of pressure sewer, approximately 5.85 miles of force main, 35 pump stations and all associated piping and valves and apparatus required to make a complete and operational wastewater collection system to serve the City Of Southport.

**3. System Improvements**

1. City replaced Filter Media at Central lift station Odor Control Unit
2. City replaced Rotor Assembly Element Moore Street Lift station
3. City purchased Two Back up Rotor Elements for backup of other Gorman Rupp Stations.
4. City purchased Two backup WGL-20 Pumps for Prizes Creek Lift station
5. City purchased Two new pumps for Turtlewood Moore lift station
6. City had contractor replace Gen. set transfer switch Forest Oaks lift station

7. City up graded its SCADA System with a VIO Controller and cell Modem Graphic Generation.
8. City replaced Base plate and Elbow at Turtlewood Moore Lift Station.
9. City replaced ASCO 300 series main controller at Bay Street Lift Station.
10. City replaced 60 HP Duplex Control Panel with starters at Central Lift Station.
11. 2 week Rental of a bypass pump for Central lift station rehab work.
12. City had contractor rework invert at Manhole by Bay street lift Station Hydraulic issues.
13. City had contractor go thru 13 Lift Station Scada Panels and upgrade UPS
14. City had contractor make tap on our 10 inch force Main for New Car Wash.
15. City had contractor Check windings at Cottage at Prizes Creek lift Station.
16. City hired Contractor to do emergency repair of a Deep lateral on 305 Howe Street.
17. City hired contractor to replace SCADA Antenna and Coaxial cable at Prices Creek, Cades Cove, Turtlewood / Moore ,INDIGO lift Stations
18. City had Contractor do a Emergency replacement of Transfer Switch at Central Lift Station.
19. City had Contractor Replace GEN SET Transfer Switch at Public Works.
20. The City signed a contract with McAdams & Associates to provide Consultant services in seeking a grant thru the North Carolina Department of Environmental Quality (NCDEQ) for a Facilities Assessment of the Wastewater system and construction of a new Wastewater Treatment Plant. Which the City was awarded a grant for \$19,800,000.00
21. The City of Southport Board Voted to go with Brunswick County in expanding their plant to take City wastewater flows, with grant funding from NCDEQ.

### **. System performance for Fiscal year July 2016- July 2017**

As noted earlier, the City also operates 35 sewer lift stations in our system. Spare parts and pumps are in inventory for their maintenance needs. In the past year their performance was outstanding, and only a few minor repairs were needed.

1. The City was awarded a grant this year for either building our own Waste Treatment or going with Brunswick County in upgrading their plant to take City Wastewater flow. The City Board voted to go with Brunswick County to treat City wastewater.
2. The City went through its North Carolina Division of Water Resources inspection on 3/15/2018 and the findings were: There were no significant issues or findings noted during the inspections.

### **Certification:**

I certify under penalty of law that this report is complete and accurate to the best of my knowledge. I further certify that this report has been made available to the users or customers of the named system and that those users have been notified of its availability.

David H, Fox (ORC)

Tom Stanley (Back up ORC)

