SOUTH GRANVILLE WATER and SEWER AUTHORITY 2019-2020 SYSTEM PERFORMANCE ANNUAL REPORT

I. General Information

Facility/System Name: Responsible Entity:

South Granville Water and Sewer Authority Wastewater Treatment Plant

South Granville Water and Sewer Authority

Person in Charge/Contact:

Cody Norwood- Wastewater Superintendent (919)575-3111 ext.100

Robert Jackson- Utility Superintendent (919)575-3112

South Granville Water and Sewer Authority

415-B Central Avenue Butner, NC 27509 (919) 575-3111

Applicable Permit(s):

NPDES Permit No. NC0026824/ WQCS00068

Description of Treatment Process and Collection System:

- A. The design capacity of the wastewater treatment plant is 5.5 mgd. This facility consists of dual bar screening, extended aeration, biological nutrient removal, clarification, denitrification filtration, chlorination, dechlorination, two-stage digestion, sludge dewatering and disposal of sludge by land application.
- B. The South Granville Water and Sewer Authority wastewater collection system consists of approximately 154 miles of force mains and gravity flow pipe ranging from 8 to 30 inches in diameter. There are 48 pumping stations in the system, which lift wastewater from lower areas up to the main outfall lines to the wastewater treatment plant. Each pumping station is equipped with a standby generator for emergency power and a SCADA system to monitor pumping station conditions and standby generator status. The wastewater collection system for the South Granville Water and Sewer Authority was constructed in the 1940's.

II. Performance

Summary of System Performance for Fiscal Year July 1, 2019 thru June 30, 2020

The South Granville Water and Sewer Authority Wastewater Treatment Plant operates under NPDES Permit No. NC0026824 with the following permit limitations:

Parameter Permitted Level			
Flow	5.5 MGD		
Biological Oxygen Demand	5 mg/L summer, 10mg/L winter		
Total Suspended Residue	30 mg/L		
Ammonia	1 mg/L summer, 2 mg/L winter		
Dissolved Oxygen	6 mg/L minimum		
Fecal Coliform	200/100 ml		
Total Phosphorus	2 mg/L Quarterly Avg, 2,486 lbs/year		
Total Nitrogen	22,420 lbs/year		
Total Cyanide	5.0 ug/L Monthly Avg.		
Chromium VI	11 ug/L Monthly Avg.		
PH	6 minimum 9 maximum Standard Unit		
Chronic Toxicity	Pass/Fail 90% Chronic (Ceriodaphnia)		
Total Residual Chlorine	17.0 ug/L		

A review of the discharge monitoring reports for the period of July 2019 through June 2020 was conducted. The next page is a monthly list of the number and type of all violations of permit limits, monitoring and reporting violations, illegal bypass of treatment facilities and sanitary sewer overflows.

			Illegal Bypass	Sanitary Sewer Overflows	
	Permit Limit	of Treat	ment Facilities	Estimated Total	
Month	Type Qty	Туре	Qty	Volume/Gallons	Location
July		0	0	0	
	Total Cyanide Monthly Average Exceeded.				
August	Cyanide limit- 5 ug/L Cyanide avg 7.75 ug/L	1	0	500	100' South of MH 1886 beside Veazey Rd.
September		0	0	0	
October		0	0	0	
November		0	0	1500	Force main broke approximately 700' North of SGWASA pump station Lyons #2.
December		0	0	0	
January		0	0	2000	335 Park Ave. MH#5354
February		0	0	375/9900	B Street #2 pump station MH#1804 Middleton Pump station MH#3089
March		0	0	0	
April					
May		0	0	700	Joe Peed Rd. Pump Station #6
June		0	0	220	Middleton Lift Station MH#3088

III. Industrial Pretreatment/ FOG Program

Industrial Pretreatment Program staff surveys facilities discharging into the sewer system and issue permits to facilities in certain categories, determined either by the type of business activity they conduct or the type(s) of wastewater discharged from their facility. Permit limits are established based on the ability of the receiving SGWASA Wastewater Treatment Plant. SGWASA currently monitors (1) industrial user.

FOG (fats, oil and grease) refers to all fats, oils and grease generated during food preparation, food service, and/ or kitchen cleanup. Residents can help prevent pipe blockages and sewer overflows by keeping grease out of the sewer system. Sewer backups can cause damage to homes, health hazards and threaten the environment. Sewer pipes blocked by grease have become an increasing cause of SGWASA Sewer System's overflows. Working together, we can prevent sewer overflows and keep the environment clean.

What can residents do?

- Never pour grease down the sink or into the toilet.
- Scrape grease and food scraps into a waste container after it cools.
- Do not put food scraps down the garbage disposal. Garbage disposal units do not prevent grease from going down the drain.
- Use a strainer in the sink to catch food scraps and other solids.

IV. Notification

A list was developed from customer billing records and each customer was directed to the SGWASA website where they could view a copy of the Performance Annual Report as part of the monthly bill in August 2020.

V. 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.

Scott Schroyer, Executive Director 415-B Central Avenue Butner, NC 27509