

CITY OF GRAHAM 2015-2016

ANNUAL PERFORMANCE REPORT OF WASTEWATER TREATMENT OPERATION AND COLLECTION

GENERAL INFORMATION

Facility/System Name: City of Graham Wastewater Treatment Plant

Responsible Entity: City of Graham

Person in Charge/Contact:

Tonya Mann, Utilities Director, at 336.570.6721

Cris Routh, Wastewater Plant Superintendent, at 336.570.6721

Ladd Nall, Distribution & Collection Superintendent, at 336.570.6709

Applicable Permit(s): NPDES Permit:	NC0021211
Non-Discharge Permit:	WQ0003824
Collection System Permit:	WQCS00065

Description of Collection System and Treatment Process

The City of Graham operates a Public Owned Treatment Works consisting of a North Carolina Grade II Collection System and a North Carolina Grade IV Wastewater Treatment Plant.

The collection system operates under a North Carolina Division of Water Quality Collection System Permit and contains approximately 89 miles of piping and seven lift stations. The lift stations are named Back Creek No. 1, Back Creek No. 2, Boyd Creek, Cherry Lane, Haw River, Old Fields, and Prytle Drive.

The wastewater treatment facility has a permitted flow of 3.5 million gallons per day (MGD). This facility consists of bar screens, grit collectors, primary clarification, extended aeration, final clarifiers, sand filtration, chlorination, post chlorination basin, de-chlorination, digestion, lime stabilization, sludge disposal, and laboratory. Effluent is discharged to the Haw River designated as Nutrient Sensitive Waters (NSW), which is part of the Cape Fear River Basin.

Performance

Text Summary of the System Performance for the Period of July 1, 2015 to June 30, 2016.

Collection System: The City of Graham collection system is a combination of gravity and forced mains. The city is proactive in monitoring and utilizing various methods to maintain the wastewater collection system. An education program is in place to inform water customers about the impact of improper disposal of Fats, Oils and Grease (FOG). Over 10% of the collection system is hydraulically cleaned annually. Chemical treatment, closed circuit inspection and rehab projects are just a few methods we implement to reduce and eliminate service outages and overflows. During the past fiscal year the collection experienced no reportable wastewater overflows.

Lift Stations: The City of Graham operates seven lift stations that are maintained by plant maintenance personnel. During this reporting period, the lift stations had no reportable sewer overflows.

Wastewater Treatment Plant: The Wastewater Treatment Plant had one violation of its NPDES permit. The City's NPDES permit has limits on Flow, Biological Oxygen Demand, Total Suspended Solids, Ammonia, Dissolved Oxygen, Fecal Coliform, Chronic Toxicity, and Total Phosphorus. Additional testing is performed for Total Residual Chlorine, Temperature, Conductivity, Copper, Mercury, and Zinc. Each month this data is reported to the state thru the Discharge Monitoring Report (DMR). The City is a member of The Upper Cape Fear River Basin Dischargers Coalition that performs monitoring upstream and downstream of our discharge point on the Haw River as well as other locations on the Haw and Deep Rivers.

Non-Discharge Permit: The City of Graham land applies biosolids to agricultural land under regulations of the Environmental Protection Agency and the State of North Carolina. There were no violations.

Violations of permit conditions or other environmental regulations relating to water quality from the above areas

May, 2016. NPDES PERMIT: The Wastewater Treatment Plant had a notice of deficiency for exceeding a weekly Ammonia average for the week of May 2nd-6th. The weekly average limit is 12.0 milligrams per liter (mg/L) of effluent. The City's average for that week of May, 2016 was 14.70 mg/L. Within one week, adjustments to surface aerator run times brought ammonia readings back to within compliance.

SUMMARY

During this 12-month period, there was one NPDES permit violation out of more than 2,400 sample results.

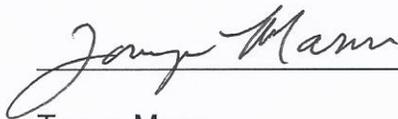
The City of Graham had no reportable sanitary sewer overflows of 1,000 gallons or more during this reporting period. Total gallons handled by the system were 518,840,000. Therefore, the City of Graham achieved a 100% successful collection rate of all water discharged into the system, excluding any spills that were less than 1,000 gallons.

All sludge was land applied per Land Application Permit regulations with no permit violations.

Notification

A Public Notice was placed in a local newspaper informing the public that a copy of this report can be obtained at the City of Graham, City Hall located at 201 South Main Street, Graham, NC. Additionally, this report is also, available on the Internet at <http://www.cityofgraham.com/>

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.



Tonya Mann
Utilities Director
City of Graham

(Date) 8-12-14