

PERFORMANCE REVIEW 2010

GENERAL INFORMATION:

FACILITY NAME: Town of Oakboro Wastewater Treatment Plant

RESPONSIBLE ENTITY: Town of Oakboro

OPERATOR IN RESPONSIBLE CHARGE: David Nichols

APPLICABLE PERMITS: NC0043532 Wastewater Plant, WQ0005387 Land Application, WQCS00190 Collection System

DESCRIPTION OF TREATMENT PROCESS:

The Town of Oakboro owns and operates a biological, aerobic treatment facility with a permitted flow capacity of 0.900 MGD or 900,000 gallons per day. Treatment units utilized at the wastewater plant are as follows:

MAIN PUMP STATIONS:

- Bar screens and step screens (for solids removal from wastewater)
- Influent flow meter
- Grit chamber (for grit removal)
- Influent pumps (to pump wastewater four miles to treatment plant)
- Onsite auxiliary power generator

WASTEWATER TREATMENT PLANT

- Two 600,000 gal. aeration basins support the growth of valuable bacteria and provide oxygen to them
- Secondary clarifier
- Chlorine contact chamber with de-chlorination
- Aerobic digester storage and further treatment of bio-solids
- Two onsite auxiliary power generators

YEAR IN REVIEW:

January	0.554 MGD	Compliant	July	0.335 MGD	Compliant
February	0.554 MGD	Compliant	August	0.346 MGD	Compliant
March	0.479 MGD	Compliant	September	0.345 MGD	Compliant
April	0.288 MGD	Non-Compliant	October	0.335 MGD	Compliant
May	0.335 MGD	Compliant	November	0.326 MGD	Compliant
June	0.361 MGD	Compliant	December	0.345 MGD	Compliant

BOD was non-compliant for April

SANITARY SEWER OVERFLOWS:

Date	Spill	Due To	Date	Spill	Due To
01/17/10	36,000 gal	Heavy Rain	03/12/10	27,000 gal	Heavy Rain
01/21/10	18,000 gal	Heavy Rain	06/01/10	72,000 gal	Heavy Rain
01/24/10	99,000 gal	Heavy Rain	08/20/10	6,000 gal	Heavy Rain
02/25/10	180,000 gal	Heavy Rain			

For the year 2010 the Town of Oakboro experienced sanitary sewer overflows (SSO's) totaling 438,000 gallons at the McCoy Creek Pump Station due to "severe natural conditions. The Town has installed an equalization basin (EQ) which had reduced overflows in frequency and magnitude. Presently, the Town is in the process of upgrading the McCoy Creek Pump Station and installing a new parallel forced main to the treatment plant.

All SSO's are reported to the State of North Carolina (DENR) Division of Water Quality, Mooresville Regional Office as required in "The Clean Water Act". The Town was not assessed civil penalties for SSO violations in 2010.

All overflows were cleaned up in accordance with NC State guidelines.

FOR FURTHER INFORMATION CONTACT:

David Nichols

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