



# COUNTY OF LINCOLN, NORTH CAROLINA

115 WEST MAIN STREET, 2<sup>ND</sup> FLOOR CITIZENS CENTER, LINCOLNTON, NORTH CAROLINA 28092

## DEPARTMENT OF PUBLIC WORKS

PHONE (704) 736-8497

FAX (704) 736-8499

WWW.LINCOLNCOUNTY.ORG

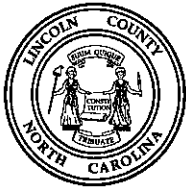
## **NOTIFICATION OF AVAILABILITY OF THE WASTEWATER PERFORMANCE ANNUAL REPORT OF LINCOLN COUNTY SEWER SYSTEM**

House Bill 1160, which the General Assembly enacted in July 1999, requires that municipalities, animal operations, industries and others who operate waste handling systems provide a summarized annual report to its customers and to the Department of Environment and Natural Resources on the performance of the wastewater treatment plant and the collections system over the past twelve months.

In accordance with this regulation, the Lincoln County Sewer System is pleased to provide copies of the Annual Performance Report for review by the public at the following locations:

1. Lincoln County Public Works  
115 West Main Street  
Lincolnton, NC 28092  
(704) 736-8497
2. Lincoln County Water Treatment Plant  
7674 Tree Farm Road  
Denver, NC 28037  
(704) 483-7082
3. Florence Soule Shanklin Branch Library  
7937 Fairfield Forest Road  
Denver, NC 28037  
(704) 483-3589
4. Charles R. Jonas Library  
306 West Main Street  
Lincolnton, NC 28092  
(704) 732-9040
5. West Lincoln Branch Library  
5545 West Hwy 27  
Vale, NC 28168  
(704) 276-9946

For further information please contact Lincoln County Public Works at (704) 736-8497.



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## Lincoln County Sewer System – Middle Forney Creek WWTP Annual Performance Report January 01, 2012 thru December 31, 2012

### I. General Information:

**Facility/System Name:** Middle Forney Creek WWTP

**Responsible Entity:** Lincoln County

**Permittee:** Donald V. Chamblee, Director of Public Works  
115 West Main Street  
Lincolnton, N.C. 28092  
(704) 736-8497

**Operator in Responsible Charge:** Thomas F. Drum  
7533 S. Little Egypt Rd.  
Stanley, N.C. 28164  
(704) 822-9667

**Applicable Permits:** NC0074012

#### Wastewater Treatment System Description:

Middle Forney creek is a 0.975 MGD facility with the following components:

- Influent pump station with dual pumps
- Influent parshall flume with ultrasonic flow recorder
- Influent composite sampler
- Mechanical bar screen with manual bypass screen
- Aerated grit removal basin
- Oxidation ditch with 3 channels (floating aerators in channels 1&2)
- Dual final clarifiers
- Triple chlorine contact chambers
- Gas dechlorination
- Effluent composite sampler
- Effluent weir with ultrasonic flow recorder
- Cascade post aeration
- Return sludge pumping station with dual pumps
- Aerobic sludge digester
- Gravity sludge thickener
- Sludge holding tank

This facility discharges into Forney Creek, classified C waters in the Catawba River Basin

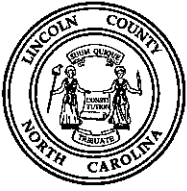
### II. Performance:

Forney Creek WWTP operated in compliance with our NPDES permit during the calendar year of 2012. Compliance was reported on the Discharge Monitoring Reports submitted monthly to the North Carolina Division of Water Quality.

### III. Notification:

This report is available to all the residents of the county and to customers of the Lincoln County Sewer System and can be obtained at the following locations:

1. Lincoln County Public Works  
115 West Main Street  
Lincolnton, N.C. 28092  
(704) 736-8497
2. Lincoln County Water Treatment Plant  
7674 Tree Farm Road  
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(704) 483-7082



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## Lincoln County Sewer System – Middle Forney Creek WWTP Annual Performance Report January 01, 2012 thru December 31, 2012

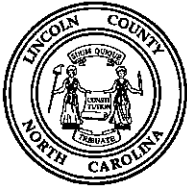
3. Florence Soule Shanklin  
Branch Library  
7937 Fairfield Forest Road  
Denver, NC 28037  
(704) 483-3589
4. Charles R. Jonas Library  
306 West Main Street  
Lincolnton, N.C. 28092  
(704) 732-9040
5. West Lincoln Branch Library  
5545 West Hwy 27  
Vale, N.C. 28168  
(704) 276-9946
6. Killian Creek Wastewater Treatment Facility  
7085 Old Plank Rd.  
Stanley, N.C. 28164  
(704) 748-2314

#### IV. 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 Lincoln County Sewer System and that those users have been notified of its availability.

Thomas F. Drum, ORC  
Forney Creek WWTP  
7533 S. Little Egypt Rd.  
Stanley, NC 28164  
(704) 822-9667

Date: 2/13/2013



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## Lincoln County Sewer System – Killian Creek WWTP Annual Performance Report January 01, 2012 thru December 31, 2012

### I. General Information:

**Facility/System Name:** Killian Creek WWTP

**Responsible Entity:** Lincoln County

**Permittee:** Donald V. Chamblee, Director of Public Works  
115 West Main Street  
Lincolnton, N.C. 28092  
(704) 736-8497

**Operator in Responsible Charge:** Thomas F. Drum  
7085 Old Plank Rd.  
Stanley, N.C. 28164

**Applicable Permits:** NC0088722

### Wastewater Treatment System Description:

Killian creek is a 1.68 MGD facility with the following components:

- Mechanical bar screen with manual bypass screen
- Aerated grit removal basin with grit classifier
- Influent parshall flume with ultrasonic flow recorder
- Influent composite sampler
- 2 Sequencing Batch Reactors with mixers, diffused air and sludge transfer pumps
- Post equalization basin with 3 pumps
- 2 Effluent filters
- Ultraviolet Disinfection
- Effluent composite sampler
- Effluent V-notch weir with ultrasonic flow recorder
- Static effluent reaeration
- 2 Aerobic sludge digesters
- Sludge holding basin
- Sludge pump station
- Rotary press sludge dewatering

This facility discharges into Killian Creek, classified C waters in the Catawba River Basin

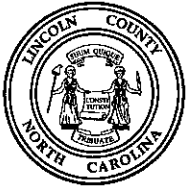
### II. Performance:

Killian Creek WWTP operated in compliance with our NPDES permit during the calendar year of 2012. Compliance was reported on the Discharge Monitoring Reports submitted monthly to the North Carolina Division of Water Quality.

### III. Notification:

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1. Lincoln County Public Works  
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## Lincoln County Sewer System – Killian Creek WWTP Annual Performance Report January 01, 2012 thru December 31, 2012

2. Lincoln County Water Treatment Plant  
7674 Tree Farm Road  
Denver, N.C. 28037  
(704) 483-7082
  
3. Killian Creek Wastewater Treatment Facility  
7085 Old Plank Rd.  
Stanley, N.C. 28164  
(704) 748-2314
  
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Denver, NC 28037  
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5545 West Hwy 27  
Vale, N.C. 28168  
(704) 276-9946

#### IV. 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 Lincoln County Sewer System and that those users have been notified of its availability.

A handwritten signature in black ink that reads "Thomas F. Drum".

Thomas F. Drum, ORC  
Killian Creek WWTP  
7085 Old Plank Rd.  
Stanley, NC 28164  
(704) 748-2314

Date: 2/13/2013



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## Lincoln County Sewer Collections System Annual Performance Report January 01, 2012 thru December 31, 2012

### I. General Information:

**Facility/System Name:** Lincoln County Sewer System

**Responsible Entity:** Lincoln County

**Permittee:** Donald V. Chamblee, Jr. – Director of Public Works  
115 West Main Street  
Lincolnton, N.C. 28092  
(704) 736-8497

**Operator Responsible in Charge:** Olan C. Henderson, Utility Operations Superintendent  
115 West Main Street  
Lincolnton, N.C. 28092  
(704) 736-8497

**Applicable Permits:** WQCS00149

#### Wastewater Collections System Description:

The Lincoln County Sewer Collections System consists of approximately 5,334 linear feet of 36" gravity sanitary sewer lines, 930 linear feet of 30" gravity sanitary sewer lines, 11,180 linear feet of 24" gravity sanitary sewer lines; 6,540 linear feet of 18" gravity sanitary sewer lines; 974 linear feet of 15" gravity sewer lines; 1,042 linear feet of 12" gravity sewer lines; 2,218 linear feet of 10" gravity sewer lines; 48,092 linear feet of 8" gravity sanitary sewer lines; 5,085 linear feet of 20" force main, 12,172 linear feet of 12" force main; 7,489 linear feet of 10" force main; 15,273 linear feet of 8" force main; 75,998 linear feet of 6" force main; 30,887 linear feet of 4" force main; 2,194 linear feet of 3" force main; 1,833 linear feet of 4" low pressure sewer lines; 17,423 linear feet of 3" low pressure sewer lines; 35,749 linear feet of 2.5" low pressure sewer lines; 12,254 linear feet of 2" low pressure sewer lines and 38 sewer pump stations serving approximately 3,950 customers.

The low pressure sewer system utilizes individually owned grinder pumps and small diameter pressure lines to collect and convey sewage to the gravity sewer system. Flows from the low pressure and gravity sewer systems are collected at the 38 strategically placed sewer pump stations and pumped via the force mains to the outfall gravity sewer system to be deposited at the Middle Forney Creek Wastewater Treatment Facility (Permit #NC0074012) located at 7533 South Little Egypt Road, Denver NC, the Killian Creek Wastewater Treatment Facility (Permit #NC0088722) located at 7085 Old Plank Road, Stanley NC and the City of Lincolnton Wastewater Treatment Facility (Permit #NC0025496) located at 550 West NC 150 Bypass, Lincolnton NC.

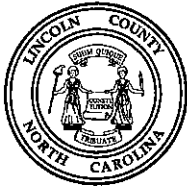
### II. Performance:

The Lincoln County Sewer Collections System had the following sanitary sewer overflows (SSO's):

- Date:** August 01, 2012  
**Time:** 12:30 pm  
**Location:** Manhole #4 Outfall  
2687 Will Schronce Road  
Lincolnton, North Carolina

**Incident:** Manhole overflow caused by pipe failure at stream crossing which allowed sewage to spill to the ground.

**Spill Amount:** 1,500 gallons  
**Impact:** None detected.  
**Corrective Action:** Bypass pumped (manhole to manhole) until line repaired by contractors. Excess spillage was vacuumed. Ground site was disinfected with fifty gallons of chlorine and one hundred pounds of lime.
- Date:** September 09, 2012  
**Time:** 12:20 pm  
**Location:** 8109 Waterford Drive



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## Lincoln County Sewer Collections System Annual Performance Report January 01, 2012 thru December 31, 2012 (Page 2)

- Incident: Denver, North Carolina  
A 1-1/2" Schedule 80 PVC low pressure sewer service line was struck by an independent contractor which overflowed into a storm drain system that emptied into Lake Norman.
- Spill Amount: 200 gallons
- Impact: None detected.
- Corrective Action: Low pressure sewer service was permanently repaired with new parts. Excess spillage was vacuumed. Ground site was treated with twenty pounds of lime.
3. Date: December 27, 2012  
Time: 09:30 am  
Location: Pump Station #28  
8513 Blades Trail  
Denver, North Carolina
- Incident: A lightning strike which caused a main power, generator power and telephone line failure on the automatic transfer system. Pumps were not able to function, causing an overflow into a ditch drain that emptied into Lake Norman.
- Spill Amount: 5,000 gallons
- Impact: None detected.
- Corrective Action: Pump station was manually transferred to generator power and the station monitored until conditions returned to normal. No swim notification was utilized until fecal coliform levels returned to normal on December 31, 2012. Ground site was treated with one hundred pounds of lime.

### III. Notification:

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### III. Certification:

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A handwritten signature in black ink, appearing to read "Olan C. Henderson".

Olan C. Henderson - ORC  
Utility Operations Superintendent  
Lincoln County Public Works

Date: 2/13/2013