

## System Performance Annual Report for Wastewater Systems of Lexington, NC for the Year of 2011

The City of Lexington is pleased to report on the performance of its wastewater treatment systems each year. This report and its availability have been identified in the Lexington *Dispatch* and on the City's Cable Information System. On February 6, 2012 the report for the year of 2011 was presented to the Lexington Utilities Commission for its review. The public may request copies at the Water Resources Department's office located at 711 Talbert Boulevard or may call Roger Spach at (336)-248-3970 or EMAIL him at [rogers@lexingtonnc.net](mailto:rogers@lexingtonnc.net).

Each year, the City Of Lexington treats around one billion gallons of wastewater and recycles over 6 million pounds of residuals and other waste products at its wastewater treatment plant. It maintains a major wastewater treatment plant; 212 miles of sewer line and over 30 pump stations. Its treatment standards are among the highest in the State because of its proximity to the High Rock Lake Recreation Area.

Federal regulations are placing increased emphasis on preventing overflows from sewer lines. A major cause of sewer line overflows is cooking oils and grease from homes and restaurants disposed into sewer lines. Once in the sewer line, oils and greases stick to the sewer lines and eventually accumulate until the line is blocked and overflows from the nearest manhole. Please help us by disposing of this material properly. For more information, contact Ms. Gisele Comer at 357-7889.

Below is a summary of the report:

### Lexington Regional WWTP

#### I. General Information:

- (A) Name of Regulated Entity: Lexington Regional WWTP
- (B) Responsible person: Roger Spach, Water Resources Superintendent
- (C) Applicable Permit: NC0055786
- (D) Description of treatment process: The Lexington Regional WWTP is a wastewater treatment facility rated to handle an average of 6.5 million gallons per day of wastewater. The plant discharges into the Abbott's Creek arm of High Rock Lake which is in the Yadkin Pee-Dee River Basin.

#### II. Performance:

- (A) Description of overall 12 month performance: With the following exceptions, the treatment plant complied with federal limits for treatment
- (B) Violations:
  - (1) Permit Limit Violations: none
  - (2) Monitoring and Reporting Violations: none
  - (3) Illegal Bypasses of Treatment Facilities: none
  - (4) Sanitary Sewer Overflows: none
- (C) Known Environmental Impact of Violations: none
- (D) Description of corrective measures taken to correct violations or deficiencies: none

### Lexington Conjunctive-Use Wastewater Spray Irrigation Disposal System

#### I. General Information:

- (A) Name of Regulated Entity: City of Lexington - Conjunctive Use Wastewater Spray Irrigation Disposal System
- (B) Responsible person: Roger Spach, Water Resources Superintendent
- (C) Applicable Permit: WQ0016165
- (D) Description of treatment process: This is a 9,000 gallon per day conjunctive use spray irrigation disposal system consisting of 176,000 square foot spray irrigation area. It serves the City of Lexington's Regional Wastewater Treatment Plant with no discharge of wastes to the surface waters

#### II. Performance:

- (A) Description of overall 12 month performance: With the following exceptions, this treatment system performed in full compliance in 2011.
- (B) Violations:
  - (1) Permit Limit Violations: 4
  - (2) Monitoring and Reporting Violations: none
  - (3) Illegal Bypasses of Treatment Facilities: none
- (C) Known environmental impact of the violations: none
- (D) Description of corrective measures taken to prevent violations and deficiencies: The systems permitted annual application rate was exceeded in dry weather in 2010. This carried over into the first 4 months of 2011. Irrigation was suspended until the system was back in compliance.

### Lexington Regional WWTP Compost Facility

#### I. General Information:

- (A) Name of Regulated Entity: Lexington Regional WWTP Compost Facility
- (B) Responsible person: Roger Spach, Water Resources Superintendent
- (C) Applicable Permit: WQ0001318
- (D) Description of treatment process: This is a wastewater residuals facility for the processing and distribution of Class A exceptional quality biosolids (compost produced at the Lexington Regional Wastewater Treatment Plant).

## **Lexington Regional WWTP Compost Facility -continued**

### II. Performance:

- (A) Description of overall 12 month performance: This treatment system performed in full compliance for all 12 months of 2011.
- (B) Violations:
  - (1) Permit Limit Violations: none
  - (2) Monitoring and Reporting Violations: none
  - (3) Illegal Bypasses of Treatment Facilities: none
  - (4) Sanitary Sewer Overflows: none
- (C) Known Environmental Impact of Violations: none
- (D) Description of corrective measures taken to correct violations or deficiencies: not applicable.

## **Lexington Regional WWTP Collection System**

### I. General Information:

- (A) Name of Regulated Entity: City of Lexington Regional WWTP Collection System
- (B) Responsible person: Richard Comer, Public Works Maintenance and Construction Superintendent
- (C) Applicable Permit: WQCS0042
- (D) Description of treatment process: Wastewater Collection System (212 miles) serving the Lexington Regional WWTP and 32 sewer lift stations.

### II. Performance:

- (A) Description of overall 12 month performance: in compliance except for the sanitary sewer overflows listed below.
- (B) Violations:
  - (1) Permit Limit Violations: none
  - (2) Monitoring and Reporting Violations: none
  - (3) Illegal Bypasses of Treatment Facilities: none
  - (4) Sanitary Sewer Overflows: 4
- (C) Known Environmental Impact of Violations: minimal
- (D) Description of corrective measures taken to correct violations or deficiencies: Sewage Spill Response Evaluation Report for 2011 is on file at the Public Works Department Office at 711 Talbert Boulevard

## **Lexington Water Treatment Plants # 1 & #2**

### I. General Information:

- (A) Name of Regulated Entity: City of Lexington Water Treatment Plants # 1 & # 2
- (B) Responsible person: Roger Spach, Water Resources Superintendent
- (C) Applicable Permit: NC0028037
- (D) Description of treatment process: Filter backwash and basin wash water from Lexington Water Treatment Plants # 1 & # 2 are discharged to a treatment system before being discharged into Abbott's Creek..

### II. Performance:

- (A) Description of overall 12 month performance: This treatment system performed in full compliance for all 12 months of 2011.
- (B) Violations:
  - (1) Permit Limit Violations: none
  - (2) Monitoring and Reporting Violations: none
  - (3) Illegal Bypasses of Treatment Facilities: none
  - (4) Sanitary Sewer Overflows: none
- (C) Known Environmental Impact of Violations: none
- (D) Description of corrective measures taken to correct violations or deficiencies: no actions taken

## **Lexington Golf Course Wastewater Treatment and Reclaimed Water Utilization System**

### I. General Information:

- (A) Name of Regulated Entity: Lexington Golf Course Wastewater Treatment and Reclaimed Water Utilization System
- (B) Responsible person: Roger Spach, Water Resources Superintendent
- (C) Applicable Permit: WQ0023213
- (D) Description of treatment process: A 300,000 gallon per day reclaimed water scalping treatment facility and reclaimed water utilization system consisting of approximately 88 acres of spray irrigation to serve the Lexington Golf Course with no discharge of wastes to the surface waters.

### II. Performance:

- (A) Description of overall 12 month performance: This treatment system performed in full compliance for all 12 months of 2011.
- (B) Violations:
  - (1) Permit Limit Violations: none
  - (2) Monitoring and Reporting Violations: none
  - (3) Illegal Bypasses of Treatment Facilities: none
  - (4) Sanitary Sewer Overflows: none
- (C) Known Environmental Impact of Violations: none
- (D) Description of corrective measures taken to correct violations or deficiencies: no actions taken