

2010-2011

WASTEWATER COLLECTION AND TREATMENT SYSTEM REPORT

This report provides information about the performance of the Waynesville Wastewater Treatment Plant (WWTP) and the Town's wastewater collection system for the period of July 1, 2010 to June 30, 2011 as required by the State of North Carolina. All information contained in this report is accurate and complete.

To learn more about the Town's wastewater collection system or wastewater treatment plant, please contact Public Works at 828-456-4410 or visit the Town's website www.townofwaynesville.org.

Frederick L. Baker, P.E.
Director of Public Works
P.O. Box 100
Waynesville, NC 28786

GENERAL INFORMATION

The Town of Waynesville operates a conventional activated sludge secondary treatment plant. Its permitted capacity (NPDES permit NC 0025321) is 6.0 million gallons per day (MGD). During the past year the Waynesville WWTP treated an average daily flow of 3.04 MGD. In addition to the Town's wastewater collection system (WQ CS 00039), the WWTP treated flow from the tributary systems of the Junaluska Sanitary District, Lake Junaluska Assembly, Town of Clyde and a small (one mile) line from the Town of Maggie Valley. The Town of Waynesville's wastewater collection system consists of approximately 69 miles of pipeline ranging in diameter from six inches to thirty inches. The system functions by gravity flow. The Town has no sewage pump stations.

PERFORMANCE

For the year the Waynesville WWTP had no NPDES permit violations.

For the fiscal year July 1, 2010 to June 30, 2011 the sanitary sewer system experienced one wastewater spill. On March 6, 2011 at the Howell Mill Road bar screen facility adjacent to Richland Creek at the railroad trestle, a sanitary sewer overflow (SSO) of an estimated volume of 48,000 gallons reached surface waters. Intense rainfall and bankfull stream flows resulted in an excessive amount of infiltration and inflow (I/I) of stormwater entering the sanitary sewer system and exceeding downstream trunk sewer capacity. Cleanup was performed. Activities were undertaken to improve downstream sewer capacity and actions to reduce I/I to the town's collection system are ongoing.

The town's rehabilitation of sewer system continued with 4,315 LF of sewer line replacement this year. The town routinely inspects sewer line not in the public view, aerial creek crossings and other high priority lines. Inspection footage totaled 190,000 LF for the year. Preventative line washing with the sewer jet truck totaled 498,480 LF. Cameras are used for internal line inspections where problem areas need further investigation. A list of locations is attached.

CUSTOMER RESPONSIBILITIES

The Town needs the help of each sewer user to reduce the number of overflows by collecting grease fats and oils from cooking in a container and dispose of it in the garbage instead of pouring it down the drain. Should you choose to recycle cooking oil, pour it in a clean plastic container with a lid and hand it to an attendant at the Materials Recovery Facility in Clyde. Place a wastebasket in each bathroom for the disposal of solid waste, disposable diapers, condoms and personal hygiene products that DO NOT belong in the sewer system. Place food scraps in the garbage for disposal with household solid waste or start a compost pile using food scraps instead of disposing of them down the kitchen sink.

Please report sanitary sewer overflows (SSOs) and water main breaks by calling Public Works at 828-456-3706 during normal business hours (Monday – Friday, 7:30 AM – 4:00 PM). For after hours, call the police dispatch at 828-456-5363.

Be aware of whether you are vulnerable to a back-up of sewage into your premises. A serious risk of back-up could exist if any points of entry into the plumbing system such as floor drains, toilets, sinks or fixtures are lower than the elevation of the next upstream manhole. This problem can be addressed with the proper installation and maintenance of a sewer back flow valve. It is the builder, homeowner or property owner's responsibility to determine whether this situation exists and to install a valve and/or maintain adequate home insurance.

Property owners are responsible for the care and maintenance of service lines from their homes to the sewer mains in the street. A cleanout should be located in this service line near the right of way line or sidewalk. Most sewer blockages occur between the house and the sewer main. The property owner is responsible for correcting this problem.

Please do not cover up manholes, erect fences or structures on sewer lines or easements or damage sewer lines in any manner. SSOs may not be directly caused by these conflicts but access and response time to sewer backups will be hindered.

Annual Sewer Report

**July 1, 2010
Thru
June 30, 2011**

SEWER DEPARTMENT

Sewer Spill Log

July 1, 2010 -----June 30, 2011

March 6, 2011

Howell Mill Road – at bar screen



Form CS-SSO
Collection System Sanitary Sewer Overflow Reporting Form

PART I

This form shall be submitted to the appropriate DWQ Regional Office within five days of the first knowledge of the sanitary sewer overflow (SSO).

Permit Number : WQCS 00039 (WQCS# if active, otherwise use treatment plant NCWQ#)

Facility: Town of Waynesville

Owner: Town of Waynesville

City: Waynesville

Incident # _____

Region: Western

County: Haywood

Source of SSO (check applicable) : Sanitary Sewer Pump Station

SPECIFIC location of the SSO (be consistent in description from past reports or documentation - i.e. Pump Station 6, Manhole at Westall & Bragg Street, etc.): Little champion @ Bar screen

Latitude (degrees/minute/second): _____

Longitude(degrees/minute/second): _____

Incident Started Dt: 3-6-11 Time: 9:45
(mm-dd-yyyy) hh:mm AM/PM

Incident End Dt: 3-6-11 Time: 6:00 PM
(mm-dd-yyyy) hh:mm AM/PM

Estimated volume of the SSO: 48,000 gallons

Estimated Duration (Round to nearest hour): 8 HRS

Describe how the volume was determined: 100 GPM x 60 min x 8hrs = 48,000 gallons

Weather conditions during SSO event: Heavy Rain

Did SSO reach surface waters? Yes No Unknown

Volume reaching surface waters (gallons): 48,000

Surface water name: Richland Creek

Did the SSO result in a fish kill? Yes No Unknown

If Yes, what is the estimated number of fish killed? _____

SPECIFIC cause(s) of the SSO:

- Severe Natural Condition
- Inflow and Infiltration
- Vandalism
- Grease
- Pump Station Equipment Failure
- Debris in line
- Roots
- Power outage
- Other (Please explain in Part II)

Immediate 24-hour verbal notification reported to: Jeff Menzell

DWQ Emergency Mgmt.

Date (mm-dd-yyyy): 3-7-11 Time (hh:mm AM/PM): 9:45 AM

If an SSO is ongoing, please notify Regional Office on a daily basis until SSO can be stopped.

Per G.S. 143-215.1C(b), the responsible party of a discharge of 1,000 gallons or more of untreated wastewater to surface waters shall issue a press release within 48-hours of first knowledge to all print and electronic news media providing general coverage in the county where the discharge occurred. When 15,000 gallons or more of untreated wastewater enters surface waters, a public notice shall be published within 10 days and proof of publication shall be provided to the Division within 30 days. Refer to the referenced statute for further detail.

The Director, Division of Water Quality, may take enforcement action for SSOs that are required to be reported to Division unless it is demonstrated that:

- 1) the discharge was caused by severe natural conditions and there were no feasible alternatives to the discharge; or
- 2) the discharge was exceptional, unintentional, temporary and caused by factors beyond the reasonable control of the Permittee and/or owner, and the discharge could not have been prevented by the exercise of reasonable control.

Part II must be completed to provide a justification claim for either of the above situations. This information will be the basis for the determination of any enforcement action. Therefore, it is important to be as complete as possible.

WHETHER OR NOT PART II IS COMPLETED, A SIGNATURE IS REQUIRED AT THE END OF THIS FORM.



ANSWER THE FOLLOWING QUESTIONS FOR EACH RELATED CAUSE CHECKED IN PART I OF THIS FORM AND INCLUDE THE APPROPRIATE DOCUMENTATION AS REQUIRED OR DESIRED

COMPLETE ONLY THOSE SECTIONS PERTAINING TO THE CAUSE OF THE SSO AS CHECKED IN PART I

In the check boxes below, NA = Not Applicable and NE = Not Evaluated

A HARDCOPY OF THIS FORM SHOULD BE SUBMITTED TO THE APPROPRIATE DWQ REGIONAL OFFICE UNLESS IT HAS BEEN SUBMITTED ELECTRONICALLY THROUGH THE ONLINE REPORTING SYSTEM

Severe Natural Condition (hurricane, tornado, etc.)

Describe the "severe natural condition" in detail.

on 3-5-11 We recieved 2 1/2" + of Rain

How much advance warning did you have and what actions were taken in preparation for the event?

No warning so there was no preparation

Comments:

The Bar Screen was clean it was just to much Rain

Grease (Documentation such as cleaning, inspections, enforcement actions, past overflow reports, educational material and distribution date, etc. should be available upon request.)

When was the last time this specific line (or wet well) was cleaned? _____

Do you have an enforceable grease ordinance that requires new or retrofit of grease traps/interceptors? Yes No NA NE

Have there been recent inspections and/or enforcement actions taken on nearby restaurants or other nonresidential grease contributors? Yes No NA NE

Explain.

Have there been other SSOs or blockages in this area that were also caused by grease? Yes No NA NE

When? _____

If yes, describe them:

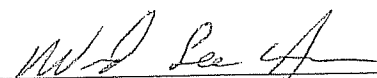
Have cleaning and inspections ever been increased at this location? Yes No NA NE

Explain.

As a representative for the responsible party, I certify that the information contained in this report is true and accurate to the best of my knowledge.

Person submitting claim: Wentford Henson

Date: 3-7-11

Signature: 

Title: Line Maint. crew leader
ORE - Town of Waynesu

Telephone Number: 828-456-3706

Any additional information desired to be submitted should be sent to the appropriate Division Regional Office within five days of first knowledge of the SSO with reference to the incident number (the incident number is only generated when electronic entry of this form is completed, if used).

Sewer Department

Line Replacements 07/01/2010----06/30/2011

Abel Lane / Vance Street

8" – 350 LF SDR 35 (Main line)
4"- 185 LF SDR 35 (Laterals)
Installed 2 new manholes

Walnut Trail

8" – 41 LF SDR 35 (Main line)
6" – 139 LF SDR 35 (Main line)
4" - 172 LF SDR 35 (Laterals)

South Main Street

8" – 813 LF SDR 35 (Main line)
4" - 44 LF SDR 35 (Laterals)
Installed 4 new manholes

Maple Street

8"- 90 LF SDR 35 (Main line)
4" – 82 LF SDR 35 (Laterals)
Installed 1 new manhole

McCracken Street

8" - 1089 LF SDR 35
Replaced main line and installed 5 new manholes

Ray Street

8" – 1310 LF SDR 35
Replaced main line and installed 4 new manholes

Total LF replaced = 4315

**Sewer Inspection Report
07/01/2010----06/30/2011**

July 2010

6" – 13,900 ft.

August 2010

6" – 21,000 ft.

September 2010

6" – 14,700 ft.

October 2010

6" – 17,200 ft.

November 2010

6" – 13,400 ft.

December 2010

6" – 15,200 ft.

December 2010

Aerial Creek Crossing

Richland Creek

- 1) 16" Golf Course Road collector at US19 bridge
- 2) 24" South Lakeshore trunk at US19
- 3) 12" Raccoon Creek interceptor at Blue Ridge Paper
- 4) 24" South Lakeshore trunk at Blue Ridge Paper
- 5) 30" trunk at Blue Ridge Paper
- 6) 18" trunk at Lea Industries
- 7) 8" Dayco control manhole

Raccoon Creek

- 8) 10" Industrial Park collector at Blue Ridge paper
- 9) 10" Raccoon Creek interceptor at Howell Mill Road
- 10) 10" Health Department collector at Junaluska Elementary
- 11) 10" Raccoon Creek interceptor at Francis Farm Road

Sewer Inspection Report continued...

Factory Branch

- 12) 12" Dellwood interceptor at Lake Junaluska entrance
- 13) 12" Dellwood interceptor at US19

Shelton Branch

- 14) 18" Shelton Branch interceptor at US276, Pigeon Street
- 15) 10" Shelton Branch interceptor at Conley Street near Broad Street
- 16) 10" Shelton Branch interceptor at Jarvis Street near Broad Street
- 17) 6" collector, end of Ross Street (aerial)
- 18) 6" collector, end of Prevost Street (aerial)
- 19) 8" collector, between Prevost and Oakdale Road
- 20) 18" Shelton Branch interceptor, Vance Street and Parkview Drive

Eagle Nest Creek

- 21) Corner of Eagle Nest Road/Sulphur Springs Road at BP Station

Browning Branch

- 22) Allens Creek Road at Gas Light Mobile Home Park (ditch crossing)
- 23) SR 1140, Lickstone Road at Hunters Crossing
- 24) Riverbend Street behind Cline-Bradley's

Chestnut Park

- 25) Chestnut Park Drive, above rest home, 6" collector from Dolan Road

- Raccoon Road Line—(Hillside Terrace Junction to US276 at Crymes Cove Road)
- Little Blue Ridge—(Howell Mill Road to US19 bridge at Junaluska Assembly)
- Raccoon Creek—(Hillside Terrace past Junaluska School on to Waynesville Industrial Park)
- Howell Mill Road—(Little Blue Ridge thru Schulhofers, Recreation Center, Abel's etc. to Russ Avenue)
- Richland Creek—(209 area, Junaluska dam thru Fairgrounds to Sewer Plant)
- Dellwood Road (us19—((From Junaluska Assembly Junction thru Dayton Drive, Ivey Hill etc., to Queens Farm)
- Fitzgerald field—(Oakdale Road bridge to Country Club Drive)
- Richland Creek—(End of Tarheel Street to Hyatt Creek Road)
- Chestnut Walk—(Browning Branch Road at Pump House to end)
- Will Hyatt Road—(Eagles Nest Road to Will Hyatt Road thru Sand Trap Drive on to Cardinal Drive and Wren Way)

Sewer Inspection Report continued...

January 2011

6" – 16,200 ft.

February 2011

6" – 14,300 ft.

March 2011

6" – 17,200 ft.

March 2011

Priority Line/Aerial Creek Crossing

Aerial Creek Crossing

Richland Creek

- 25) 16" Golf Course Road collector at US19 bridge
- 26) 24" South Lakeshore trunk at US19
- 27) 12" Raccoon Creek interceptor at Blue Ridge Paper
- 28) 24" South Lakeshore trunk at Blue Ridge Paper
- 29) 30" trunk at Blue Ridge Paper
- 30) 18" trunk at Lea Industries
- 31) 8" Dayco control manhole

Raccoon Creek

- 32) 10" Industrial Park collector at Blue Ridge paper
- 33) 10" Raccoon Creek interceptor at Howell Mill Road
- 34) 10" Health Department collector at Junaluska Elementary
- 35) 10" Raccoon Creek interceptor at Francis Farm Road

Sewer Inspection Report continued...

Factory Branch

- 36) 12" Dellwood interceptor at Lake Junaluska entrance
- 37) 12" Dellwood interceptor at US19

Shelton Branch

- 38) 18" Shelton Branch interceptor at US276, Pigeon Street
- 39) 10" Shelton Branch interceptor at Conley Street near Broad Street
- 40) 10" Shelton Branch interceptor at Jarvis Street near Broad Street
- 41) 6" collector, end of Ross Street (aerial)
- 42) 6" collector, end of Prevost Street (aerial)
- 43) 8" collector, between Prevost and Oakdale Road
- 44) 18" Shelton Branch interceptor, Vance Street and Parkview Drive

Eagle Nest Creek

- 45) Corner of Eagle Nest Road/Sulphur Springs Road at BP Station

Browning Branch

- 46) Allens Creek Road at Gas Light Mobile Home Park (ditch crossing)
- 47) SR 1140, Lickstone Road at Hunters Crossing
- 48) Riverbend Street behind Cline-Bradley's

Chestnut Park

- 25) Chestnut Park Drive, above rest home, 6" collector from Dolan Road

- Raccoon Road Line—(Hillside Terrace Junction to US276 at Crymes Cove Road)
- Little Blue Ridge—(Howell Mill Road to US19 bridge at Junaluska Assembly)
- Raccoon Creek—(Hillside Terrace past Junaluska School on to Waynesville Industrial Park)
- Howell Mill Road—(Little Blue Ridge thru Schulhofers, Recreation Center, Abel's etc. to Russ Avenue)
- Richland Creek—(209 area, Junaluska dam thru Fairgrounds to Sewer Plant)
- Dellwood Road (us190—((From Junaluska Assembly Junction thru Dayton Drive, Ivey Hill etc., to Queens Farm)
- Fitzgerald field—(Oakdale Road bridge to Country Club Drive)
- Richland Creek—(End of Tarheel Street to Hyatt Creek Road)
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- Will Hyatt Road—(Eagles Nest Road to Will Hyatt Road thru Sand Trap Drive on to Cardinal Drive and Wren Way)

Sewer Inspection Report continued...

April 2011

6" – 19,000 ft.

May 2011

6" – 13,900 ft.

June 2011

6" – 14,000 ft.

Total Year by Line Size:

6" – 190,000 ft.

Total Footage Inspected for Year: 190,000 ft.

**Sewer Preventative Maintenance Report
07/01/2010----06/30/2011**

Non-Breakdown Line Washing By Month

July 2010

6" – 40,800 ft.

August 2010

6" – 39,800 ft.

September 2010

6" – 24,180 ft.

October 2010

6" – 58,400 ft.

November 2010

6" – 39,500 ft.

December 2010

6" – 30,600 ft.

January 2011

6" – 26,400 ft.

February 2011

6" – 28,600 ft.

March 2011

6" – 44,600 ft.

Sewer Maintenance Report continued...

April 2011

6" – 63,200 ft.

May 2011

6" – 48,700 ft.

June 2011

6" – 53,700 ft.

Total Year by Line Size:

6" – 498,480 ft.

Total Footage Washed for Year: 498,480 ft.

CAMERA ----- LINE INSPECTION

JULY 2010 – JUNE 2011

AUGUST 2010 – West Marshall Street

NOVEMBER 2010 – Maple Street

MARCH 2011 – Frazier Street and Laurel Circle

JUNE 2011 – Hemlock Street