

TOWN OF BLOWING ROCK, NORTH CAROLINA
2010 SYSTEM PERFORMANCE ANNUAL REPORT
Collection System and Wastewater Treatment Plant

This report provides performance information on the Town of Blowing Rock sewer collection system and wastewater treatment plant in the year 2010. It is required under the provisions of the Clean Water Act of 1999, House Bill 1160 ratified on July 20, 1999.

COLLECTION SYSTEM

I. General Information

Facility Name: Town of Blowing Rock
Responsible Entity: Town of Blowing Rock
Person in Charge: Johnny K. Lentz, Collection System ORC
Applicable Permits: WQCS00142

II. System Description

The collection system consists of approximately 15.8 miles of gravity sewer lines and 3.4 miles of pressure sewer. There are four lift-stations; Mayview, Chetola, and Chestnut Hill, and Quail Hollow which are checked daily.

III. Performance

Four spills that reached surface waters occurred in the collection system during the year. In accordance with State regulations, all were reported to the State of North Carolina, Department of Environment and Natural Resources. The table below gives the spill volume and the date it occurred.

<u>Location</u>	<u>Date</u>	<u>Volume (gal)</u>
Manhole 200 Feet South of Sunset Drive on Ransom St	01/25/2010	100
Manhole 300 feet West of Country Club Boathouse	03/08/2010	2,500
Manhole 300 feet West of Ransom St. on Sunset Dr.	05/22/2010	> 1,000
Manhole 200 feet south of Sunset Drive on Ransom St.	11/30/2010	> 5,000
Manhole on Cornish	11/30/2010	> 5,000

BLOWING ROCK WASTEWATER TREATMENT PLANT

I. General Information

Facility Name: Town of Blowing Rock Wastewater Treatment Plant
Responsible Entity: Town of Blowing Rock
Person in Charge: Thomas McRary, Wastewater Treatment Plant Manager
Applicable Permits: NPDES Permit No: **NC0027286**
Plant Capacity: .800 MGD

II. System Description

Wastewater is physically screened through a mechanical bar rack and then enters the equalization basin. It is then pumped by three influent pumps to four aeration basins where diffused air is added by five blowers. It then enters two clarifiers where a part of the sludge is returned to the head of the plant by two new return sludge pumps. The clear water on top of the clarifiers then enters the chlorine contact chamber where chlorine is fed to kill the bacteria. De-chlorine chemical is then added to take the chlorine out of the water before entering the river.

Solids are wasted to the new 200,000-gallon digester daily. Honeywell Septic Tank Service hauls sludge to Lenoir WWTP for disposal.

III. Performance

Average Daily Flow for 2010

Month	Total WW Treated	Average Daily	Maximum Flow	Minimum Flow	Total Rainfall (Inches)
January	13.206	.426	*1.024	.042	9.4
February	8.428	.301	.485	.210	6.9
March	10.757	.347	*.813	.125	9.5
April	7.680	.256	.443	.159	3.5
May	7.161	.231	.411	.139	4.1
June	15.030	.501	** .841	.189	2.2
July	12.121	.391	.527	.155	7.1
August	13.175	.425	.580	.235	9.3
September	9.270	.309	.581	.115	3.5
October	9.827	.317	.453	.146	2.6
November	4.650	.155	.269	.051	3.4
December	6.882	.222	.553	.112	10.3
Total	118.187	3.881	6.98	1.678	71.8
Average	9.85	0.323	0.5816	0.1398	5.983

*Flow violations in January and March due to excessive rainfall.

** Flow Violation in June due to broken valve at the water treatment plant

12/02/2010- Overflow at WWTP occurred due to power outage and back-up generator problems.

Volume (gal)
50,000

2010 Results For Permit NPDES Parameters

Parameter	Limit	Violations	Date of Violation
PH	6.0-9.0 Units	0	
BOD	30/45 mg/l	0	
Total Suspended Solids	30/45 mg/l	0	
Ammonia Nitrogen	No Limit	0	
Dissolved Oxygen	>5.0 mg/l	0	
Fecal Coliform	200/400 mg/l	0	
Conductivity	No Limit	0	
Flow	.800 MGD	*4	01/26/10, 01/27/10 03/23/10, 06/23/10
Chronic Toxicity	Pass/Fail	0	
Chlorine	28 ug/l	0	
Total Nitrogen	NL	0	
Total Phosphorus	NL	0	

IV. Notification

This report is available online at the website www.townofblowingrock.com for the Town of Blowing Rock. In addition copies are available for review at the Town Hall Office at 1036 Main Street, Blowing Rock, NC.

V. 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 named system and that those users have been notified of its availability.

Thomas McRary
 Water and Wastewater Treatment Plant Manager

Date

Johnny Lentz
 Collection System ORC

Date