

TOWN OF BLOWING ROCK, NORTH CAROLINA

2007 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 2007. 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 15.5 miles of gravity sewer lines and 2.5 miles of pressure sewer. There are three lift-stations; Mayview, Chetola, and Chestnut Hill 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>Month</u>	<u>Volume (gal)</u>
Manhole 200 feet south of Sunset Drive on Ransom Street	01/01/07	1,000
14 feet south of #4 Tee box manhole at BR Country Club	05/22/07	1,000
100 feet south of residence 340 Country Club Lane	06/20/07	1,000
Influent manhole into Mayview Lift Station	12/01/07	5,300

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**

II. System Description

Wastewater is physically screened through two sets of bar racks and then enters the equilization 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. 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 digester daily. Honeywell Septic Tank Service hauls sludge to Lenoir WWTP for disposal.

I. Performance

Plant Capacity: .800 MGD

Average Daily Flow for 2007

Month	Average Daily	Maximum Flow	Minimum Flow
January	.390	1.005	.153
February	.187	.342	.108
March	.217	.628	.104
April	.201	.279	.115
May	.195	.286	.132
June	.215	.369	.119
July	.284	.533	.192
August	.263	.572	.132
September	.216	.352	.130
October	.253	.524	.157
November	.211	.352	.105
December	.198	.348	.092

The plant treated 86.326 MG of wastewater in 2007. The plant was in violation in January due to excessive rainfall. The flow exceeded .8 MGD on 1 day. No other violations were reported in 2007.

2007 Results For Permit NPDES Parameters

Parameter	Limit	Violations
PH	6-9 Units	0
BOD	30-45 ppm	0
Total Suspended Solids	30-45 ppm	0
Ammonia Nitrogen	No Limit	0
Dissolved Oxygen	>5.0 ppm	0
Fecal Coliform	200-400 ppm	0
Conductivity	No Limit	0
Flow	.8 MGD	1 day (01/01/07)
Chronic Toxicity	Pass/Fail	0
Chlorine	28 ug/l	0

II. 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.

III. 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