

A&D Water – Sherwood Forest (Wastewater)

Facility Information:

Wastewater System: PWS# NC0048658

Brevard, Transylvania County, NC

~16 Service connections

Assets: Surface Sand Filter, Spetic Tank, Tablet Chlorinator, Tablet Dechlorinator and Collection System

Compliance History

Reviewing the EPA (ECHO) compliance history of the Sherwood Forest plant shows a history of noncompliance. The facility has been in a state of non-compliance for all of the previous 12 quarters. The facility regularly violates limits for fecal coliform and design flow. Additionally, the facility has specific violation for unapproved operation since October of 2018. In the last five years, the facility has 10 informal enforcement actions (Notices of Violation), and 2 formal enforcement actions with fines accessed totaling \$1,087. This all demonstrates a failure to properly operate and maintain the facility under current ownership.

Description of need:

The overall site structures are failing or have failed, and their structural integrity has been compromised. The sand filter beds concrete masonry units are cracks and have fallen out. The equalization tank shows signs of corrosion. The sand filter appears to be clogged in several locations and there is excessive growth of vegetation throughout the filter bed. The contact chamber is in poor condition and will require replacement. The dosing tank hatches are in poor condition and the control panel for the dosing pumps has reached the end of its useful life. The plant is covered in fallen leaves and the maintenance staff has made little to no effort to keep the plant clear of debris. The sand filter structure appears to be in good condition.

Proposed Improvements:

In order to ensure the longevity and performance of the Sherwood Forest, Red Bird Water Utility Operating Company plans to make improvements to the system. In order to ensure that operations can effectively respond to abnormal operating conditions and ensure proper operations, the existing equipment must be evaluated and repaired. The sand filter will be cleaned and cleared of vegetation and clogged sections of the filter identified and cleared where possible. The dosing tank will have a drop in MBBR unit added to meet the BOD limits and reduce sludge production aiding in preventing future clogging in the sand bed. The contact chamber will be rebuilt, and tablet feeders evaluated for either repair or replacement. These improvements will ensure the system can provide safe and reliable service to customers and will bring the facilities into a maintainable condition moving forward.

Sherwood Forest	
Item No.	Cost
Chain Link Fence Repair	\$10,000
Drop-in MBBR for Septic Tank (Blowers, Diffusers, etc.)	\$40,000
Clean Up Sand Filter	\$50,000
Mission Remote Monitoring and Meters	\$18,000

Control Panel for Dosing and MBBR	\$20,000
Hatch Repair on Dosing Tank	\$10,000
Concrete Repairs on Tank and Bed	\$20,000
Rebuild Contact Chamber and Tablet Feeders	\$30,000
Total	\$198,000