

Puraflo®

Peat Fiber Biofilter

Quick Facts

Application:
Intermittent Use

Product:
Puraflo®

Installer:
W.J. Clark, Inc.

Location:
Charleston, WV

Puraflo Replaces an Old System That Was Contaminating Water Supply

Situation

Camp Virgil Tate is a 400-acre 4-H campground and conference center located 30-minutes outside Charleston West Virginia. The camp consists of four cottages, a motel-style lodge, and dining hall with several meeting rooms. Four barns and two show rings are available for horse camps and equestrian events.



While the camp is open year-round, use is intermittent based on seasonality. A weekend may host 200 visitors for meetings and overnight camp outings to more than 4,000 people during the Kanawha County Fair.

In 1997 the camp's dated wastewater system completely failed leaving raw sewage in the showers, and closing the park for an extended period. The Camp Virgil Tate Board and officials were charged with finding options to renovate the existing wastewater structure. The primary challenge was identifying a solution to withstand the intermittent flows consistent with camp use.

Solution

After several site visits, including a packaged plant that would require expensive ongoing maintenance, it was determined that Anua's Puraflo peat fiber biofilter was the right solution to meet the camp's needs. In May 2001, W.J. Clark, Inc. installed a modern, decentralized wastewater system of 104 Puraflo peat fiber biofilters in two banks of 52. This ensured sufficient capacity for the heaviest use periods of the camp.



According to Judith Bostick, campground manager, "The decision was based on Puraflo's ability to control the intermittent flows, overall lower lifecycle cost and ease of maintenance." The cost of the Puraflo system was one-third the cost of the original proposed packaged plant.

Results

After installation, Puraflo created a self-sustaining eco-system via its peat media—consisting of a diverse population of microorganisms. During periods of reduced wastewater flow, the Puraflo microbial population naturally decreases and continuously adjusts to fluctuating flow levels.



Puraflo



Puraflo Peat Fiber Biofilter Module

Passive system, very low or no power required

Pre-packaged modules for easy installation

The media is resistant to breakdown, which provides long media life

No chemical or nutrient addition

Completely odor-free

