



Table Rock Lake Lampe Resort

Presented as part of an extensive study and works project undertaken from 2001 to 2005 by Table Rock Lake Water Quality

PROJECT OVERVIEW

Table Rock Lake is located in the Upper White River Basin watershed, in the heart of the Ozarks.

The second largest of five reservoirs in the Upper White River, covering over 43,000 acres, the reservoir's drainage basin covers over 5,000 square miles in both Missouri and Arkansas. The lake, which is widely considered to have the best water quality of any in Missouri, is quite clear and supports a variety of fish species including bass, crappie and sunfish.

Table Rock's excellent water quality has led to a booming recreation and tourism business, with many resorts catering to fishing, boating and swimming activities, principally during the summer months. The U.S. Army Corps of Engineers estimates that the recreational use at Table Rock Lake ranges between 30 and 40 million visitor hours annually. Along with the Branson tourism industry, Table Rock Lake and other reservoirs on the White River are responsible for the hundreds of millions of dollars annually pumped into the local economy. This growth has benefited the local economy, but has not come without costs. The large numbers of visitors, an increase in confined animal production in the basin, and population growth present the greatest challenges to the water quality in Table Rock Lake.

To learn more about the Table Rock Water Quality Onsite Wastewater Demonstration Project, please visit <http://www.trlwq.org/onsiteDemoproj.html>

ISSUES FACED

The Missouri Department of Natural Resources identified three probable sources of excessive nutrient loading in the lake: municipal sewage discharge from wastewater treatment plants, residential on-site wastewater treatment systems associated with increasing populations, and livestock and poultry wastes.

LAMPE RESORT STATS

LOCATION

Table Rock Lake, Upper White River Basin
Missouri

PROPERTY TYPE

Resort

SITE BACKGROUND

The Lampe Resort location consists of a three bedroom single family home and eight rental units with an expected average flow of 1,560 gallons per day. Drip field was installed on a hillside above the resort.

SITE CONDITIONS

- One 3 bedroom home and 8 rental units
- Lack of soil

FAILED TREATMENT SYSTEM

- Leaking lagoon

TYPE OF TREATMENT SYSTEM

- Quanics treatment system with Netafim Bioline in imported soil

DESIGN FLOW (GPD)

1,560

Table Rock Lake
Lampe Resort



The property did not have a good soil base for the drip field. The drip field required that soil be imported to establish the needed base.



A good view of the imported base brought in for the field. Soil was brought onto the field in 4" - 6" lifts until an adequate base was established.



Netafim Bioline laid onto the imported soil in equally-spaced rows.



This photo shows the proper method for covering the dripperline in a 'drip and fill' application. The use of a track vehicle to provide a reduced weight footprint is important. As soil is brought onto the field, it is important to keep the vehicle moving with the dripperline to prevent it from shifting.



After installation and final cover of the Bioline, the drip field is ready for use by resort guests.



NETAFIM USA
5470 E. Home Ave.
Fresno, CA 93727
CS 888 638 2346
F 800 695 4753
www.netafimusa.com