



Septic Health Resources

C.H.A. Research on the Eco Ethic Septic Treatment Product

The C.H.A. takes the issue of our credibility very seriously. We believe that we must at all times act in such a way to maintain the very high degree of credibility that we have achieved with our members, the community we serve and government. . As such we are very careful in checking and double checking all information we provide.

Here are some of the steps we took before we came out with our recommendation to our members re Eco Ethic Septic Treatment Product (EEST):

- We interviewed various wastewater treatment experts that had experience with the product and other products.

A number of the people we interviewed had done studies on the product (test results later in this document) . Some of the people that we interviewed such as Dr E. Craig Jowett the founder and President of Waterloo BioFilter had years of experience with the product and had conducted numerous efficacy studies on the product and competitive products. We also talked to academic experts such as Dr. Brent Wootton, Fleming College's Alternative Wastewater Treatment (CAWT) Director and Senior Scientist. Some of the info gleaned from these experts is as follows:

1. The product works as advertised
2. When asked about competition's products none of the experts we interviewed said anything negative but what they kept repeating is that the Eco Ethic Product works
3. The Eco Ethic products has a high concentration and the right mix of beneficial bacteria and enzymes to
 - a. Kick start a system after the owner has been away (Spring, holidays etc.)
 - b. Deal with, fats, oils and greases (FOG)
 - c. Breakdown Cellulose fiber from toilet paper and some of the foods we eat such a whole wheat and broccoli (fiber is good for us in large part because it does not breakdown in our digestive system - we do not have the right bacteria to break it down – Eco Ethic Septic Treatment product does)
 - d. Supplement the bacteria that comes from our gut that we do such a good job of harming with the products that go down our drains – products such as prescription drugs, antibacterial products, supermarket detergents, dishwasher rinse aids etc.

- Interviewed septic pumpers that have been recommending the product for years. While they did have a vested interest it is small part of their revenue and a number of the folks that we interviewed have excellent reputations for integrity. All spoke highly of the product and its efficacy.
- We were able to get our hands on some actual test performance conducted privately by a major septic system manufacturer. While proprietary info the manufacturer agreed that we could share these results.

Test Performance

After bio-augmenting with Eco Ethic Septic Treatment analytical results showed drastic improvements in effluent quality as shown in Table 1.

Explanation of Terminology

- TKN - Total nitrogen - a very important nutrient for plant growth in lakes.
- TSS - the total suspended solids, the tiny bits that do not sink or float but carry through systems causing bio-matt buildup in tile beds.
- BOD - biochemical oxygen demand, this is the amount of dissolved oxygen that must be present in water in order for microorganisms to decompose the organic matter in the water, used as a measure of the degree of pollution. Also called [BIOLOGICAL OXYGEN DEMAND](#). BOD uses up oxygen in our lakes - less for the fish! Can also lead to acidification.

Table 1 – Treatment Data Summary Table

	cBOD (mg/L)	TSS (mg/L)	TKN (mg/L)	NO _{2,3} -N (mg/L)
Before Bio-Augmentation				
Raw Sewage	318	200	93	0.6
Effluent	148	75	78	0.6
% Removal:	54%	62.5%	Nitrification Efficiency = 0.76%	
After Bio-Augmentation with Eco Ethic Septic Treatment				
Effluent	6	6.8	5.5	21.5
% Removal:	97%	91%	Nitrification Efficiency = 79%	

The bottom line is that the C.H.A. spent a lot of time doing it's homework before we recommended the Eco Ethic Product - which we do unreservedly.



Paul MacInnes – Chair