

Thesis Title	Removal of Ascaris Eggs in Toilet Wastewater by Anaerobic Filter System
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ABSTRACT

Ninty-six millions of Ascaris suum eggs were put only one time into a septic-anaerobic filter privy which was in used. The privy composed of the septic tank connected to another upflow anaerobic filter tank. The height of the filter tank was 1.20 meters filled with gravel with the diameter of 25-35 millimeters. The samples were collected every other day for 45 days period, totally 23 times. They were collected at 6 different points, i.e., from septic tank, from filter tank at the height of 0, 0.40, 0.80 and 1.20 meters, and from outlet.

The Ascaris eggs were found at the first four points i.e., septic tank, at the height of 0, 0.40 and 0.80 of the filter media. The percentage of the life eggs were 74.82-77.99, 17.13-19.77, 4.55-6.01 and 0.12 at these point respectively. The eggs were not found in the samples taken from the filter tank at the height of 1.20 meters and the outlet through out the experiment. While the others were found as reported only up to the 33rd day of the experiment.

Thus, it can be concluded that the septic-anaerobic filter tank can eliminate *Ascaris* eggs from privy wastewater. The appropriate height of the filter tank should be 1.20 meters and the duration to keep wastewater in the system should not less than 33 days.