



## North Carolina Department of Environment and Natural Resources

### Division of Water Quality

Beverly Eaves Perdue  
Governor

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Director

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Secretary

## Recommended Media (Sand) Specs for Septic Tank Sand Filters

### Re-circulating filter

Effective Size: 0.8-1.5 mm

Uniformity Coefficient: 2.5

Dust Content: 0.5 %

Sand Depth: 24-36 inches

### Single-pass gravity sand filter (with primary and secondary sand filter)

Effective Size: 0.35mm-0.50mm

Uniformity Coefficient: < 3.0

Dust Content: < 0.5%

Sand Depth: 24 inches

### References:

*Onsite Wastewater Treatment Systems Manual*. [Washington, D.C.]: Office of Water, Office of Research and Development, U.S. Environmental Protection Agency, 2002. Print.

Otis, Richard J. *Design Manual: Onsite Wastewater Treatment and Disposal Systems*. Washington, D.C., Cincinnati, Ohio: U.S. Environmental Protection Agency, Office of Water Program Operations, 1980. Print.

Tchobanoglous, George. *Wastewater Engineering: Treatment Disposal Reuse*. New York: McGraw-Hill, 1979. Print.

United States Environmental Protection Agency. *Decentralized Systems Technology Fact Sheet: Septic Tank Polishing*. Washington D.C.: United States Environmental Protection Agency, 2002. Print.

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