

WILDLIFE CONSERVATION ASSOCIATION

ENVIRONMENT • SUSTAINABILITY • EDUCATION Nosara, Costa Rica • wcanosara.org

WASTEWATER GUIDE



A guide to understanding your water use and treating it with environmental-friendly methods

Do your part to help ensure Nosara has clean water, rivers, and ocean by following this guide!



A guide to understanding your water use and treating it with environmental-friendly methods

Do your part to help ensure Nosara has clean drinkable water, rivers, and ocean by following this guide!

Wildlife Conservation Association • Nosara, Costa Rica • wcanosara.org ENVIRONMENT • SUSTAINABILITY • EDUCATION





Basics & Quick Tips Types of wastewater and how to reduce your impact

2



Wastewater System Components and how they are supposed to work







Take Action Steps you can follow to improve your wastewater system



WILDLIFE CONSERVATION ASSOCIATION

WASTEWATER BASICS



ENVIRONMENT • SUSTAINABILITY • EDUCATION Nosara, Costa Rica • wcanosara.org





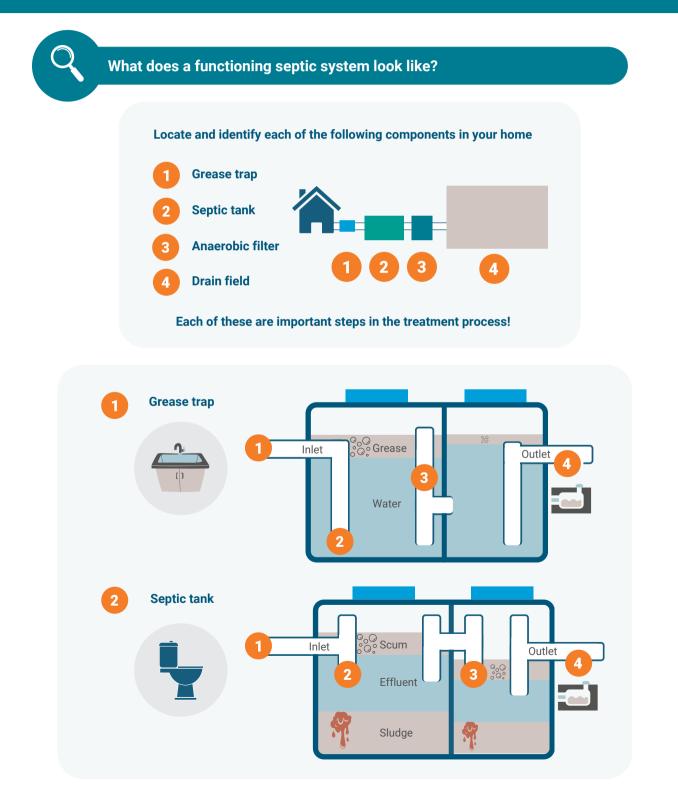


WILDLIFE CONSERVATION ASSOCIATION

WASTEWATER GUIDE



ENVIRONMENT • SUSTAINABILITY • EDUCATION Nosara, Costa Rica • wcanosara.org

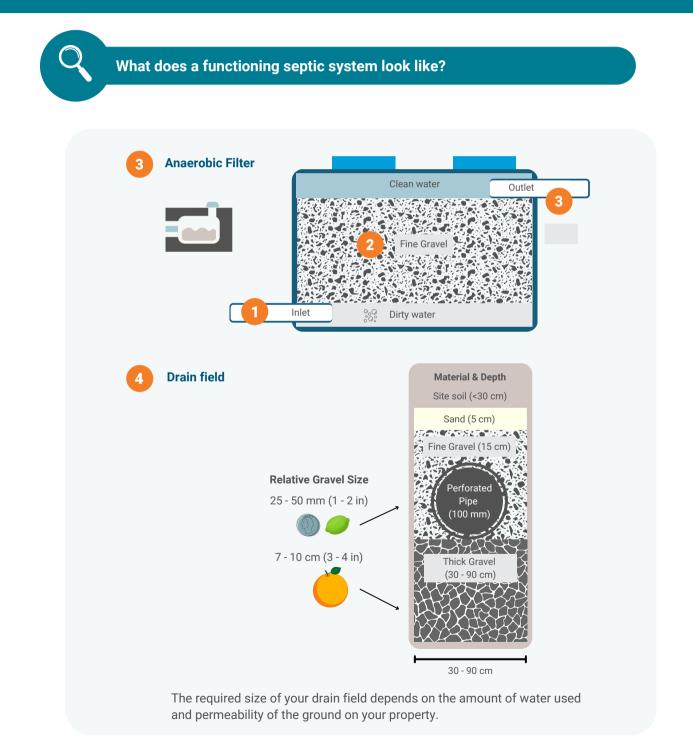








ENVIRONMENT • SUSTAINABILITY • EDUCATION Nosara, Costa Rica • wcanosara.org





WILDLIFE CONSERVATION ASSOCIATION

WASTEWATER GUIDE



ENVIRONMENT • SUSTAINABILITY • EDUCATION Nosara, Costa Rica • wcanosara.org

How big should your septic tank be?

Your septic tank should have two compartments and be sized according to the estimated volume of wastewater generated daily. Below are guidelines to help you go above and beyond local requirements to ensure you aren't polluting.

Number of Bedrooms	Number of People	Septic Tank Capacity (Gallons)
1 - 2	1 - 4	1,000
3	6	1,250
4	8	1,500
5	10	1,750
6	12	2,000

Each additional bedroom, 2 people, laundry, outdoor kitchen, or other features that generate wastewater

- Dimensions vary according to size and shape.
- Separating grey water and diverting this to the second chamber of the septic tank or treating this entirely separately greatly reduces your tank size requirements and improves efficiency.

+250



DID YOU KNOW?

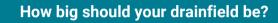
Most septic tanks in Costa Rica are undersized because local requirements are based on the average water consumption of Costa Rican families.







ENVIRONMENT • SUSTAINABILITY • EDUCATION Nosara, Costa Rica • wcanosara.org



Your drainfield consists of a perforated pipe that goes through a trench filled with gravel and should be sized according to the percolation rate of the soil on your property and the estimated volume of wastewater generated daily. This area must be clear of trees and cannot be used as a driveway. Below are guidelines to help ensure you aren't polluting.

	Percolation Rate (min/cm)	Sq. m of drainfield per person
_	3	7
	4	4
	6	9
	8	10
	12	12

If you do not have enough area for a proper drainfield, you will require a contained wastewater treatment plant followed by a drainfield or holding tank that is connected to an irrigation system to redistribute treated water on your property.

Ê

DID YOU KNOW?

If your soil percolation rate is less than 2 or more than 25 cm per minute, the use of a traditional septic system is not permitted and you will require a contained wastewater treatment plant or holding tank.



WILDLIFE CONSERVATION ASSOCIATION

WASTEWATER GUIDE



ENVIRONMENT • SUSTAINABILITY • EDUCATION Nosara, Costa Rica • wcanosara.org

INDICATIONS YOU HAVE A PROBLEM

- Showers and sinks not draining well
- Toilets not flushing well
- Area around septic tank floods and stays damp
- Bad odor coming from the septic tank
- Dirty water pools in the yard after heavy rain

Concerned? Take Action!

Contact a local engineer with no conflict of interest to evaluate your system. Download an inspection guide and checklist here: <u>EN / ESP</u>

- Add an anaerobic filter, vetiver grass biogarden or other filtration steps to your system
- Replace your septic tank with a wastewater treatment plant (see an example at bionest-tech.com)



1

We're here to help. Contact us today!

BOOK A CONSULTATION

If you are concerned about the environmental impact of your home or construction, book a consultation with us to identify trouble areas and find solutions that are right for you.

GET A REPORT, ASSISTANCE & FOLLOW UP

You'll receive recommendations for companies and products to start making improvements for a healthier and more environmentally-friendly property. We are available every step of the way to provide any other additional assistance to make sure you can achieve your goal!

(+506) 8351-4000





A guide to understanding your water use and treating it with environmental-friendly methods

Do your part to help ensure Nosara has clean drinkable water, rivers, and ocean by following this guide!

Wildlife Conservation Association • Nosara, Costa Rica • wcanosara.org ENVIRONMENT • SUSTAINABILITY • EDUCATION



Curious about how you are doing with your wastewater? Take the <u>quiz</u>!



Concerned about the environmental impact of your home? Check out our Nosara Ocean-Friendly Guide!



Interested in learning more about our water quality program? Visit our story map!



Was this guide helpful? Help us develop more educational materials like this!



