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TIOGA COUNTY SANITARY SERVICE

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Your Septic System

If you are a suburban or rural resident, you probably depend on a septic system to treat and dispose of your household wastewater. The purpose of a septic system is to treat liquid wastes from your house in order to prevent contamination of your well and nearby lakes and streams.

When a septic system is...

Suitably located... properly designed... carefully installed... and adequately maintained

You will have a waste disposal system that is...

Effective... Economical... and Safe!

Maintenance is the key to a lasting septic disposal system. Read and use this folder to learn:

1. how a septic system works
2. why and how to adequately maintain your septic system
3. how to keep your own maintenance record

How Your System Works

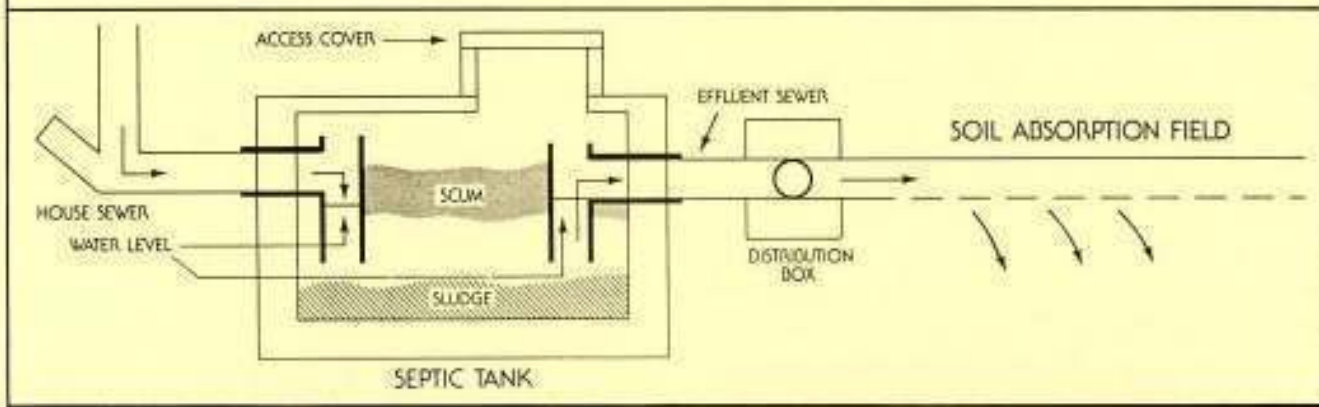
A septic system has two basic working parts:

Septic Tank

Wastewater flows from the house into the septic tank. Here heavy solids settle and are partially decomposed by bacteria to form sludge. Light solids and grease float to the top forming a scum layer.

Soil Absorption Field

Partially treated wastewater is discharged from the septic tank through perforated pipes into an absorption field. Here, the water is further purified by filtration and decomposition by microorganisms in the soil. This is the last line of defense to prevent polluted water from entering lakes, streams, and groundwater.



Septic System Maintenance

Why Maintain Your Septic System

Wastewater leaving your house comes from the tub or shower, wash bowl, toilet, kitchen sink, clothes washer and dishwasher. It carries chemicals, solids, grease, dirt, and bacteria and viruses which can cause disease. A good septic system treats and disposes of this wastewater. A failing septic system cannot perform these tasks, so pollution of drinking water wells and streams and lakes can result.

Even a properly designed and operated septic system will eventually fail unless the sludge and floating scum are periodically pumped from the tank, damaging materials kept out of the tank, and other protection measures are followed. Routine maintenance and a little common sense protects your investment and insures against the high cost of premature failure.

Pumping Out Your Septic Tank

Generally, septic tanks should be cleaned out every 3-5 years, depending on the size of the tank and the amount and quality of solids entering the tank. As a rule of thumb, the clean-out interval is determined on the basis of 100 gallons of tank capacity per person per year. For example, a 1000 gallon tank used by a family of two should be cleaned after 5 years $[1000 \div (100 \times 2)]$. **Note:** Use of a garbage disposal increases solids loading by about 50%.

Checking sludge and scum build-up can be an unpleasant task. The best suggestion for most homeowners in determining a maintenance schedule is simply to have the tank pumped at regular intervals. The cleaning of a tank is usually done by a commercial septic tank cleaning service, which must have a permit from the New York State Department of Environmental Conservation in order to perform this service.

Finding Your Septic System

In order to maintain your system, the tank needs to be accessible for pumping and the drainfield should be protected. Locating your system is not always an easy task. If the access manhole to the tank is at ground level, there is no problem. Unfortunately, these manholes are often buried under lawns.

To locate your system, go into the basement or crawl space and find where and in what direction the sewer pipe goes out through the wall. The tank can be traced back from the drainfield by checking the yard for an area

where the grass doesn't grow or grows very well, or for slightly depressed or mounded areas. Any likely site can be probed with a thin metal rod.

If you are unable to find the tank, your local septic tank pumper will find it when he comes to pump out the tank solids. You may want to have the manhole extended up to just below ground level and marked clearly with a stake, rock or a birdbath. Do not plant a shrub or tree to mark the location. Once your septic system is uncovered, be sure to make a map.

HELPFUL SOURCES OF ADDITIONAL INFORMATION

- SS-1 — *What to Do if Your Septic System Fails*
- SS-2 — *Maintaining Your Septic System: Special Considerations for Shoreline Property Owners*
- SS-3 — *How to Conserve Water in Your Home and Yard*
- SS-4 — *Your Septic System: What You Need to Know When Buying or Selling a House*
- SS-5 — *Your Septic System: Considerations When Building or Remodeling a Home*

Evaluate Your Septic Practices

As a homeowner, you have a tremendous impact on the efficiency of your septic system. Evaluate your maintenance practices based on the suggestions below.

Safe Disposal

- Do not put substances such as motor oil, gasoline, paints, thinners and pesticides in drains. These materials may pollute the groundwater and are toxic to the microorganisms which maintain an active system.
- Moderate use of household cleaners, disinfectants, detergents or bleaches will do little harm to the system, but remember that where there is a high density of septic systems, there may be a cumulative impact on groundwater from household cleaners.
- Fats, grease, coffee grounds, paper towels, sanitary napkins, disposable diapers, etc., will clog your septic system.

Protect the Absorption Field

- Keep automobiles and heavy equipment off the absorption field.
- Grass cover and shallow rooted plants are beneficial over an absorption field, but the deep roots of trees and shrubs stress and may plug nearby drain tiles. Do not fertilize the soil above the drainfield.
- Grass on the surface of an absorption field should be mowed regularly to promote evaporation and transpiration.

Conserve Water

- Remember to consider the capacity of your septic system when installing new appliances or plumbing.
- Limit the water entering the tank. Use water saving fixtures. Repair toilet float valves, leaks and dripping faucets. Spread clothes washing over the entire week. Do not connect rooftop drains, a basement sump pump, or footing drains to the septic tank.

Avoid Septic Tank Additives

- Yeasts, bacteria, enzymes or chemicals are sold with the claim that they help a system work better; however, there is **no** scientific evidence that additives are effective. In fact, some cleaners can allow the solids in an overloaded tank to be re-suspended and clog the drainage lines and soil absorption field.
- Additives are not an alternative to proper maintenance and do not eliminate the need for routine pumping of your septic tank.
- Commercial biological additives are not needed to begin decomposition after pumping because the sludge residue contains active microorganisms.

Record Keeping

1. Make a rough sketch locating your septic tank and absorption field in relation to surrounding reference points. Begin by sketching your house, driveway, water well, and other landscape features such as trees, rocks, or fences.
2. Measure and record distances from your house to the cover of your septic tank and to the corner of your absorption field, if possible. As long as the distances are correct, do not be concerned whether or not the drawing is to scale.
3. Keep this information on file as a permanent record for use in maintenance and to pass on to subsequent owners.

— YOUR MAP —

Maintenance Record

Keeping a record of your septic system maintenance experience will help you anticipate when the next cleaning may be needed.

Size of Tank

_____ gallons

| Date | Work Done | Firm | Cost |
|------|-----------|------|------|
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| | | | |
| | | | |
| | | | |

Your Septic System Installer

Name _____

Address _____

Phone _____

Date Installed _____

Your Septic System Pumper

Name _____

Address _____

Phone _____

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