

GIBSON COUNTY DEPARTMENT OF HEALTH 1250 MANUFACTURER'S ROW P.O. BOX 126

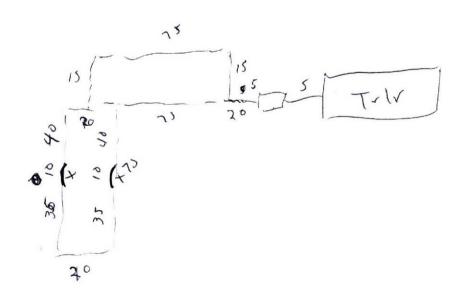
TRENTON, TENNESSEE 38382

901-855-7601

APPLICATION FOR ENVIRONMENTAL SERVICES

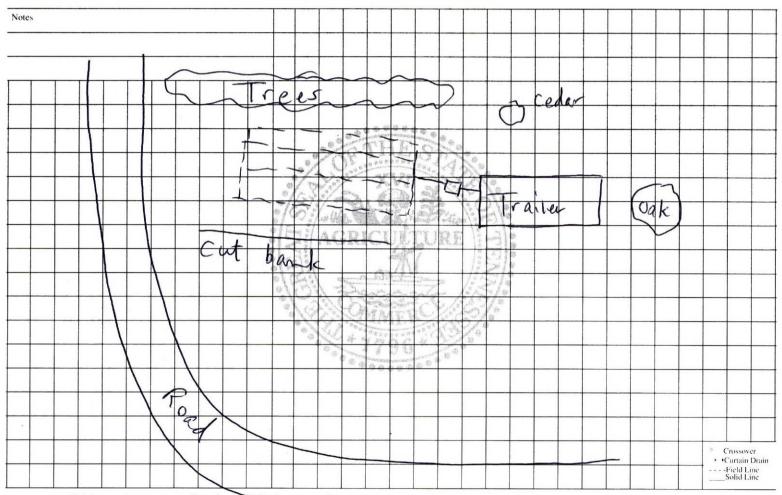
DIVISION OF GROUNDWATER PROTECTION

1.	SERVICE REQUESTED:		
	Soil Test Septic System Permit	Reinspection Letter	Water Sample
2.		APPLICANT:	
	Name: Elizabeth R. Smith	Name:	
	Address 2640 Sheppard Dr.	Address	·
	Humbold, TN.38343	Work	
	Phone $\frac{784 - 3670}{784 - 30}$		
3.	Is the lot in a subdivision? If not in subdivision, give specific div	Name rections:	Lot #
	Map Number Parcel Nu	umber	
4.F	a) Age of house (b) Is how of previous repairs e) All waste water including washing many f) Waste water "backing up" into plumbing) Surfacing on the ground?	local health department?Inspected? chines routed into septic	tank?
	For water sample only: (a) Is there an (b) Sanitary seal and casing?(d) Casing 6 inches above ground?	(c)Is well ch	
6.	ForSSD Permit only: (a) Size of lot	Joacie (b) Number of b	edrooms 3
	(c) How many occupants If yes, will therebe a washing machine	(d) Basement plumbing Bathroom	(yes) (no) other
	(e) Amount of water used monthly (gal. (f) Water: PUBLIC WELL	lons)SPR	ING
	(f) Water: PUBLIC WELL (g) Is the lot staked? (h) Installer if known:	Is the house site staked	
	e a rough sketch on the back of this pagenned driveway and utilities.	e showing property lines,	house site, well located
	ALL FEES ARE DUE IN ADVANCE AND ARE NO	-	0
~	\$ 50.00 each additional 1000 gpd.	000 gpd. <u>SOIL TEST</u> \$ WATER SAMPLES	(Total Coliform) \$ 25.00 (Fecal Coliform) \$ 50.00
	REINSPECTION LETTER \$ 100.00 (30 work	ing days required)	
Ιc	ertify that the above information is true		
DAT	E: 7-29-91 EIPT # 4627	SIGNATURE; Elizabeth	i. K. Smith
REC	EIPT # 4627		



TENNESSI	EE DEPARTMENT OF HEALTH AND ENVIR	CONMENT
PERMIT FOR CONSTR	UCTION OF SUBSURFACE SEWAG	GE DISPOSAL SYSTEM
Issued to: Owner, Developer, Contractor, Installer, Etc. Location: Installation: (X) 1. New Installation () 2. Repair to Existing System Establishment: (X) 1. Residential: # Bedrooms () 2. Other: (specify) Gal/Day	Evaluation Based Upon: (X) 1. Soil typing by Soil Scientist () 2. Soil Percolation Test () 3. Environmental Specialist Estimated Absorption Rate: Minutes per inch Conventional Systems: Type of System: (X) 1. Standard () 2. Alternating () 3. Chapter () 4. Other	Permit Requirements Based Upon: (
This system shall consist of a two compartment septic tank holding $\frac{10}{9}$ gallons, with $\frac{370}{9}$ linear feet in $\frac{3-4}{9}$ trenches. $\frac{36}{9}$ wide and $\frac{40-48}{9}$ inches deep. All installers of subsurface sewage disposal systems must hold a valid annumber $\frac{3}{9}$ and $\frac{3}{9}$ septiments $\frac{3}{9}$ such that $\frac{3}{9}$ inches deep.	700	quired: 1. Curtain Drain* 1. Environment. 1. Curtain Drain* 1. Cu
The recipient of this permit agrees to construct or have constructe Disposal Systems. If any part of the system is covered before beir Department of Health and Environment. Any cutting, filling or all	g inspected and approved, it shall be uncovered by the re erations of the soil conditions on the aforementioned pro	cipient of the permit at the direction of personnel of the perty after this day may render this approval null and void.
(Signature of Recipient	Trenton Tennessee.	in Gibso County
By K. Colcha	Date	8-1-9(
(Name and Title)	1)	Date of Issue)

This permit is valid for 3 years from date of issue.



SEPTIC TANK CARE

Residential sewage disposal systems are generally used in rural and unsewered suburban areas. A septic tank system must be properly designed, installed and maintained if reasonable service is to be expected.

A septic tank is a water tight structure in which organic solids are decomposed by natural bacterial processes. The flow of sewage is slowed in its passage through the tank so that larger solids settle to the bottom and accumulate as sludge. Grease and lighter particles rises to the surface and form scum.

The bacteria present in a tank are able to thrive in the absence of oxygen. Such decomposition in the absence of air is called "septic," which led to the naming of the tank. Solids and scum are digested and reduced to a smaller volume by the bacteria in the tank. However, a residue of sludge remains which must be stored during the interval between tank and cleanings.

The partially treated sewage, or effluent, flowing from the tank is still septic and contains large numbers of harmful bacteria and organic matter in a finely divided state or in solution. Foul odors, unsightly conditions and health hazards will develop if this effluent is ponded on the surface of the ground or carried away in open ditches. Final disposal of the effluent in a subsurface soil absorption system or filter is necessary to avoid these problems.

LOCATION

To facilitate inspection and maintenance, it is imperative that the homeowner knows the location of all parts of the disposal system. Such information may be obtained from the local health authority. Details and accurate measurements including the location of the tank, pumps, underground piping, and the absorption system should be shown on a sketch for future reference.

Then local health authority should be consulted to determine the minimum requirements relating to distance between disposal systems and water supply facilities.

MAINTENANCE

The frequency of cleaning depends on the size of the septic tank and the number of people it serves. When a garbage grinder is used, more frequent cleaning will be required. With ordinary use and care, a septic tank may require cleaning ever 2 or 3 years. However in many cases septic tanks can be satisfactorily operated even longer. The homeowner should determine for himself when his tank needs cleaning.

Actual measurement of sludge deposit and scum accumulation is the only method of determining when a tank need to be cleaned. Scum can be measured with a stick to which a weighted flap has been hinged, or with any device that can be used to feel out the bottom of the scum mat. The stick if forced through the mat, the hinged flap falls into a horizontal position, and the stick is raised until resistance from the bottom of the scum felt. With the same tool, the distance to the bottom of the outlet device can be found.

A long stick wrapped with rough white toweling and lowered to the bottom of the tank will show the depth of sludge and the liquid depth of the tank. The stick should be lowered behind the outlet device to avoid scum particles. After several minutes, if the stick is carefully removed, the sludge line can be distinguished by sludge particles clinging into the toweling.

In two-compartment tanks, measurements should be made near the outlet of the first compartment.

The tank should be cleaned if either (a) The bottom of the scum mat is within 3 inches of the bottom of the outlet device; or (b) sludge comes within the limits specified in the accompanying table.

	LIQUID DEPTH							
LIQUID CAPACITY OF TANK GALLONS	3 feet	4 feet	5 feet					
	Distance from bottom of outlet device to top of sludge, inches.							
750	6	10	13					
900	4	7	10					
1,000	4	6	8					

Do not allow any person who does not have a health department permit to pump your septic tank. Septic tanks are usually cleaned by companies who make this operation a business. The homeowner should check with the local health department for the names of reputable companies in the area.

There are no known chemicals, yeasts or other substance capable of climinating or reducing the solids in a septic tank so that cleaning is unnecessary. The use of such product is not necessary for the proper operation of a septic tank.

Septic tanks and absorption systems frequently are damaged by heavy trucks or equipment moving over them. Reference to the location sketch of the system will be found helpful in directing heavy vehicles away from the critical areas. If there is no way to avoid crossing a sewer line, cast iron should be used under the crossing.

The roots of trees and shrubbery may enter the tile lines and clog them completely. When this occurs, the roots can be removed only digging up and cleaning the tile line.

Neglect of the septic tank is the most common cause of damage to soil absorption systems. When the tank is not cleaned, solids build up and are carried over into the absorption system causing clogging of the soil. When this happens the absorption system must be relocated and rebuilt.

TENNESSEE DEPARTMENT OF HEALTH AND ENVIRONMENT

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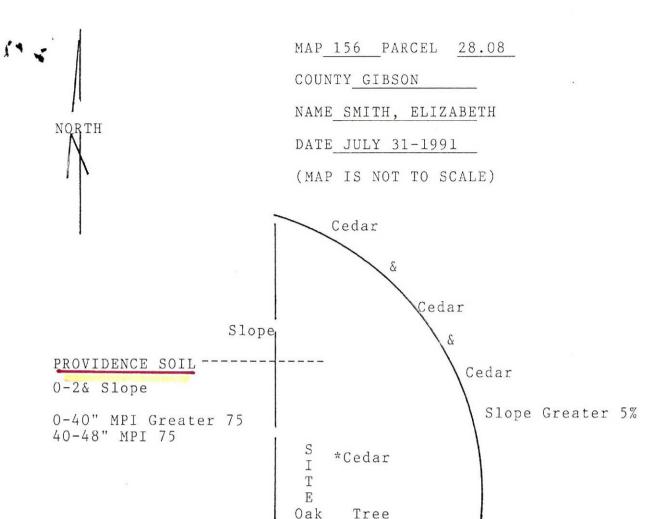
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Note:

The Providence soils underlined in red and yellow have some favorable and some unfavorable properties for conventional subsurface sewage disposal systems. These soils have a fragipan that ends at a depth of about 40 inches. The fragipan restricts the movement of water & air. It causes some wetness within 40 inches of the surface.

Conventional subsurface sewage disposal system in the Providence soils may require interceptor drains to intercept the excess water.

When the excess water is not present, the Providence soil has an estimated absorption rate of 75 minutes per inch in the lower 40-48 inch layer. Field lines need to be installed in this layer.

ANY CUTTING OR FILLING WILL VOID THIS SOIL MAP

Final Soil Map Completed By Tenn.Dept. Of Health & Environment

G.L.Keathley, Soil Consultant