

# SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION

Maine Department of Human Services  
Division of Health Engineering, Station 1C  
(207) 287-5672 FAX (207) 287-4172

<b>PROPERTY LOCATION</b>		<b>&gt;&gt; Caution: Permit Required -- Attach In Space Below &lt;&lt;</b>	
City, Town, Plantation	AUGUSTA		
Street or Road	51 Divided Lane <del>MUD MILL ROAD</del>	AUGUSTA Date Permit Issued: <u>11/22/02</u>	5447 TOWN COPY \$ <u>100.00</u> <input type="checkbox"/> If Double Fee Charged
Subdivision, Lot #		L.P.I. # <u>1828</u>	
<b>OWNER/APPLICANT INFORMATION</b>			
Name (last, first, MI)	STOVER SCOTT	Owner	Applicant
Mailing Address of	51 Divided Lane	Local Plumbing Inspector Signature	
<input type="checkbox"/> Owner <input type="checkbox"/> Applicant			
Daytime Tel. #	623-9789	Municipal Tax Map # <u>12</u>	Lot # <u>21</u>
<b>Owner or Applicant Statement</b>		<b>Caution: Inspections Required</b>	
I state that the information submitted is correct to the best of my knowledge and understand that any falsification is reason for the Department and/or Local Plumbing Inspector to deny a Permit.		I have inspected the installation authorized above and found it to be in compliance with the Subsurface Wastewater Disposal Rules Application.	
Signature of Owner or Applicant: <u>[Signature]</u>		Local Plumbing Inspector Signature: _____	
Date: <u>1/30/02</u>		(1st) Date Approved: _____	
		(2nd) Date Approved: _____	

PERMIT INFORMATION		
<b>TYPE OF APPLICATION</b> 1. <input checked="" type="checkbox"/> First Time System 2. <input type="checkbox"/> Replacement System Type Replaced: _____ Year Installed: _____ 3. <input type="checkbox"/> Expanded System a. <input type="checkbox"/> One-time exempted b. <input type="checkbox"/> Non-exempted 4. <input type="checkbox"/> Experimental System 5. <input type="checkbox"/> Seasonal Conversion	<b>THIS APPLICATION REQUIRES</b> 1. <input checked="" type="checkbox"/> No Rule Variance 2. <input type="checkbox"/> First Time System Variance a. <input type="checkbox"/> Local Plumbing Inspector Approval b. <input type="checkbox"/> State & Local Plumbing Inspector Approval 3. <input type="checkbox"/> Replacement System Variance a. <input type="checkbox"/> Local Plumbing Inspector Approval b. <input type="checkbox"/> State & Local Plumbing Inspector Approval 4. <input type="checkbox"/> Minimum Lot Size Variance 5. <input type="checkbox"/> Seasonal Conversion Approval	<b>DISPOSAL SYSTEM COMPONENT(S)</b> 1. <input checked="" type="checkbox"/> Complete Non-engineered System 2. <input type="checkbox"/> Primitive System (graywater & alt toilet) 3. <input type="checkbox"/> Alternative Toilet, specify: _____ 4. <input type="checkbox"/> Non-Engineered Treatment Tank (only) 5. <input type="checkbox"/> Holding Tank, _____ gallons 6. <input type="checkbox"/> Non-engineered Disposal Field (only) 7. <input type="checkbox"/> Separated Laundry System 8. <input type="checkbox"/> Complete Engineered System (2000 gpd or more) 9. <input type="checkbox"/> Engineered Treatment Tank (only) 10. <input type="checkbox"/> Engineered Disposal Field (only) 11. <input type="checkbox"/> Pre-treatment, specify: 12. <input type="checkbox"/> Miscellaneous components
<b>SIZE OF PROPERTY</b> 63 AC ± <input type="checkbox"/> sq. ft. <input checked="" type="checkbox"/> acres	<b>DISPOSAL SYSTEM TO SERVE</b> 1. <input checked="" type="checkbox"/> Single Family Dwelling Unit, No. of Bedrooms: <u>2</u> 2. <input type="checkbox"/> Multiple Family Dwelling, No. of Units: _____ 3. <input type="checkbox"/> Other: _____ SPECIFY _____	<b>PROPOSED TYPE OF WATER SUPPLY</b> 1. <input checked="" type="checkbox"/> Drilled Well    2. <input type="checkbox"/> Dug Well    3. <input type="checkbox"/> Private 4. <input type="checkbox"/> Public    5. <input type="checkbox"/> Other: _____

DESIGN DETAILS (SYSTEM LAYOUT SHOWN ON PAGE 3)			
<b>TREATMENT TANK</b> 1. <input checked="" type="checkbox"/> Concrete WITH LABEL a. <input checked="" type="checkbox"/> Regular    A. 1800 b. <input checked="" type="checkbox"/> Low Profile FILTER OR EQUAL 2. <input type="checkbox"/> Plastic 3. <input type="checkbox"/> Other: _____ CAPACITY <u>1000</u> gallons	<b>DISPOSAL FIELD TYPE &amp; SIZE</b> 1. <input type="checkbox"/> Stone Bed    2. <input type="checkbox"/> Stone Trench 3. <input checked="" type="checkbox"/> Proprietary Device a. <input type="checkbox"/> Cluster array    c. <input checked="" type="checkbox"/> Linear b. <input checked="" type="checkbox"/> Regular load    d. <input type="checkbox"/> H-20 load 4. <input type="checkbox"/> Other: _____ SIZE <u>300</u> sq. ft. <input checked="" type="checkbox"/> lin. ft. <u>180 LIN FT. GEOFLOW</u>	<b>GARBAGE DISPOSAL UNIT</b> 1. <input checked="" type="checkbox"/> No    3. <input type="checkbox"/> Maybe 2. <input type="checkbox"/> Yes >> Specify one below: a. <input type="checkbox"/> Multi-compartment Tank b. <input type="checkbox"/> Tanks in Series c. <input type="checkbox"/> Increase in Tank Capacity d. <input type="checkbox"/> Filter on Tank Outlet	<b>DESIGN FLOW</b> <u>180</u> gallons per day BASED ON: 1. <input checked="" type="checkbox"/> Table 501.1 (dwelling unit(s)) 2. <input type="checkbox"/> Table 501.2 (other facilities) SHOW CALCULATIONS -- for other facilities -- <u>10'x30'</u> <u>4 ROWS of 30'</u> <u>GEOFLOW PIPE</u> <u>3' ON CENTER</u> 3. <input type="checkbox"/> Section 503.0 (meter readings) ATTACH WATER-METER DATA
<b>SOIL DATA &amp; DESIGN CLASS</b> PROFILE CONDITION DESIGN <u>21 C 11</u> at Observation Hole # _____ Depth <u>18"</u> Elevation _____ OF MOST LIMITING SOIL FACTOR	<b>DISPOSAL FIELD SIZING</b> 1. <input type="checkbox"/> Small -- 2.0 sq. ft./gpd 2. <input type="checkbox"/> Medium -- 2.6 sq. ft./gpd 3. <input checked="" type="checkbox"/> Medium-Large -- 3.3 sq. ft./gpd 4. <input type="checkbox"/> Large -- 4.1 sq. ft./gpd 5. <input type="checkbox"/> Extra Large -- 5.0 sq. ft./gpd	<b>PUMPING</b> 1. <input type="checkbox"/> Not Required 2. <input checked="" type="checkbox"/> May Be Required 3. <input type="checkbox"/> Required >> Specify only for engineered or experimental systems: DOSE: _____ gallons	

SITE EVALUATOR STATEMENT		
I Certify that on <u>1-26-02</u> (date) I completed a site evaluation on this property and state that the data reported are accurate and that the proposed system is in compliance with the State of Maine Subsurface Wastewater Disposal Rules (10-144A CMR 241).		
Site Evaluator Signature: <u>David L. Studer</u>	SE #: <u>275</u>	Date: <u>1-26-02</u>
Site Evaluator Name Printed: <u>DAVID L. STUDER</u>	Telephone #: <u>845-2352</u>	DESIGN STILL OK <u>[Signature]</u> <u>10-11-04</u>

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Department of Human Services  
Division of Health Engineering  
(207) 287-5672 FAX (207) 287-4172

Town, City, Plantation  
**AUGUSTA**

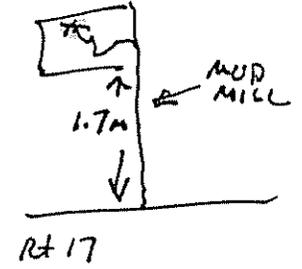
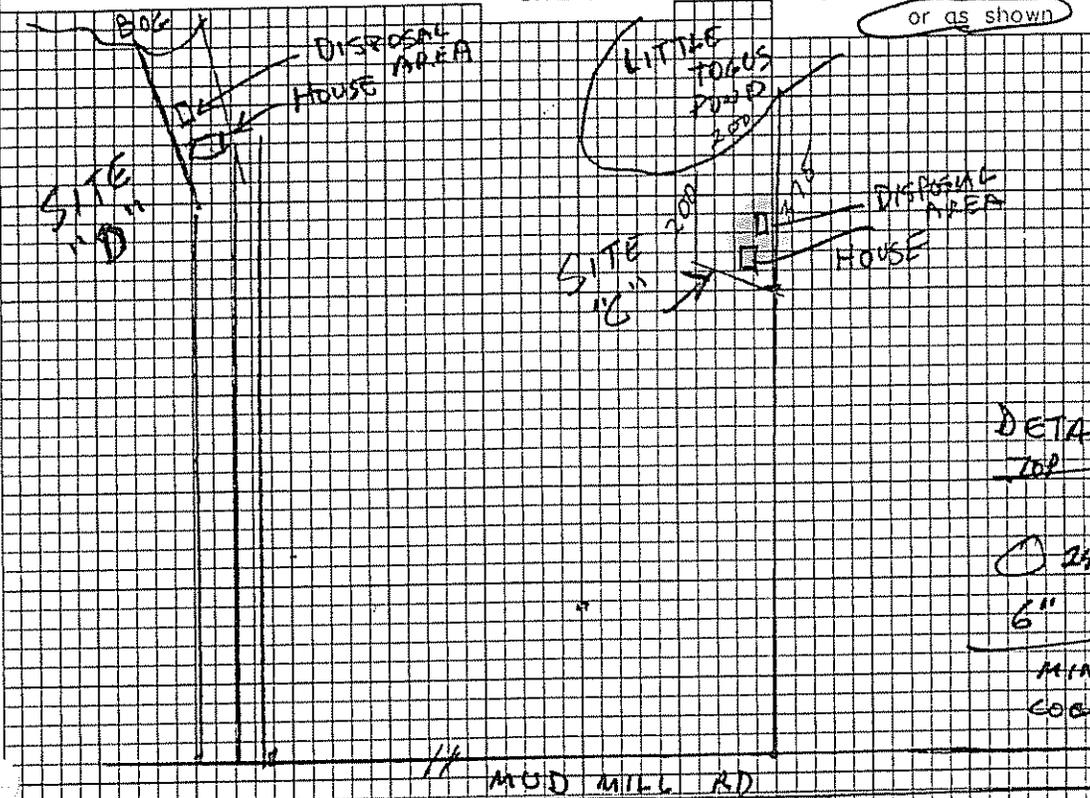
Street, Road, Subdivision  
**MUD MILL ROAD**

Owner's Name  
**SCOTT STOVER**

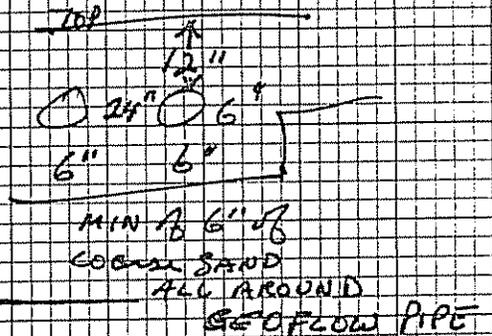
## SITE PLAN

Scale **1" = 400 Ft.**  
or as shown

SITE LOCATION PLAN  
(Map from Maine Atlas recommended)



## DETAIL NOT TO SCALE



## SOIL DESCRIPTION AND CLASSIFICATION (Location of Observation Holes Shown Above)

Observation Hole TP-1  Test Pit  Boring  
" Depth of Organic Horizon Above Mineral Soil

DEPTH BELOW MINERAL SOIL SURFACE (inches)	Texture	Consistency	Color	Mottling
0 - 10	LOAM		DK BN	
10 - 20	ROCKY GRAVELLY SANDY LOAM TO LOAMY SAND	FRIABLE	DK YELLOW	
20 - 30			OLIVE	MOTTLING
30 - 50	LIMIT OF INVESTIGATION			

Soil Classification: **2 C** Slope: **19%** Limiting Factor: **18"**  
 Ground Water  
 Restrictive Layer  
 Bedrock  
 Pit Depth

Observation Hole \_\_\_\_\_  Test Pit  Boring  
" Depth of Organic Horizon Above Mineral Soil

DEPTH BELOW MINERAL SOIL SURFACE (inches)	Texture	Consistency	Color	Mottling
0 - 10				
10 - 20				
20 - 30				
30 - 40				
40 - 50				

Soil Classification: \_\_\_\_\_ Slope: \_\_\_\_\_ Limiting Factor: \_\_\_\_\_  
 Ground Water  
 Restrictive Layer  
 Bedrock  
 Pit Depth

*David Studer*  
Site Evaluator Signature

275  
SE

1-26-02  
Date

*David Studer*  
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Town, City, Plantation

AUGUSTA

Street, Road, Subdivision

MVD MILL RD

Owner's Name

SCOTT STOVER

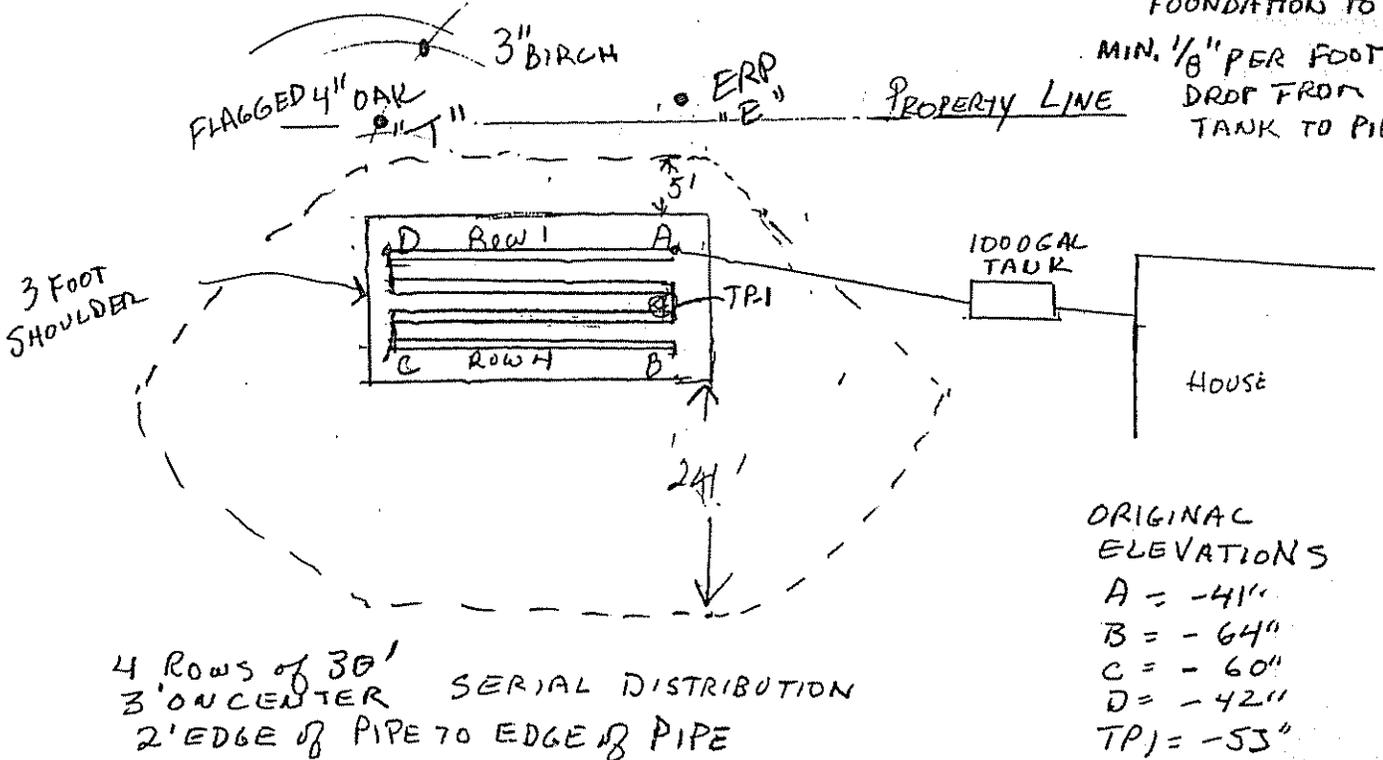
SUBSURFACE WASTEWATER DISPOSAL PLAN

SCALE 1" = 20 FT.

TANK TO HOUSE IS AT LEAST 8'

MIN. 1/4" PER FOOT DROP FOUNDATION TO TANK

MIN. 1/8" PER FOOT DROP FROM TANK TO PIPE



ORIGINAL ELEVATIONS

- A = -41"
- B = -64"
- C = -60"
- D = -42"
- TPI = -53"

FILL REQUIREMENTS

Depth of Fill (Upslope) 18"-19"  
Depth of Fill (Downslope) 19"-23"

CONSTRUCTION ELEVATIONS

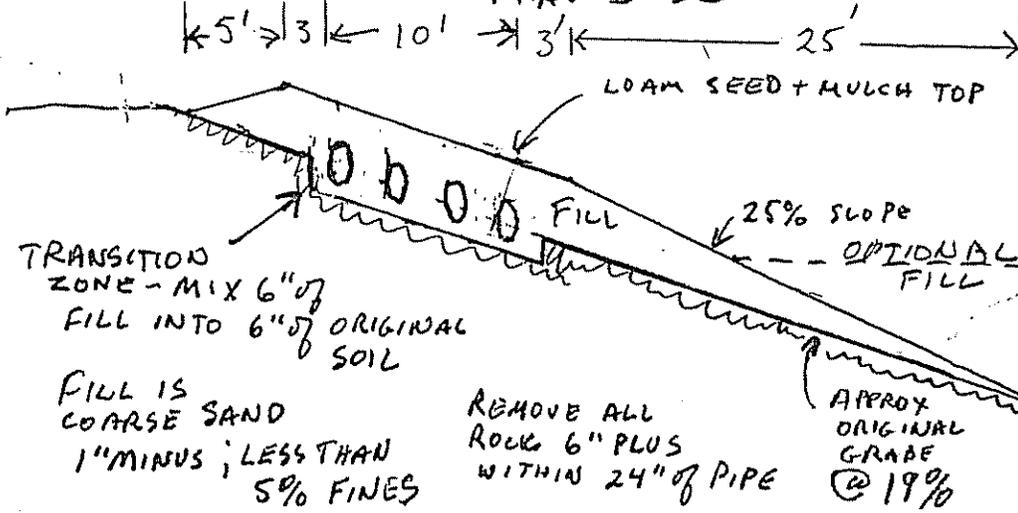
Finished Grade Elevation 12" OVER GEOWFLOW  
Top of Distribution Pipe or Proprietary Device SEE BELOW  
Bottom of Disposal Area

ELEVATION REFERENCE POINT

Location & Description NAIL IN 3" BIRCH  
Reference Elevation 20" ABOVE GRADE

DISPOSAL AREA CROSS SECTION

THRU D -> C



SCALE:  
VERTICAL: 1" = 5'  
HORIZONTAL: 1" = 10'

GEOWFLOW PIPE ELEVATIONS

Row	TOP	BOTTOM
1	-35"	-47"
2	-41"	-53"
3	-47"	-59"
4	-53"	-65"

David Studer  
Site Evaluator Signature

275  
SE

1-26-02  
Date

Studer 04  
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HHE-200 Rev. 7/97

## **ADDENDUM TO HHE-200 AND ADDITIONAL INFORMATION ABOUT YOUR SEPTIC SYSTEM**

- 1. You should have your septic system tank pumped out and checked every two years to prolong the life of the system.**
- 2. Water softeners should drain to a separate gray water disposal system.**
- 3. Your septic system must be installed level and all joints, etc. must be water tight. This applies to the pump tank if your system requires pumping. Distribution boxes shall have Equalizers installed on the outlets.**
- 4. Low volume toilets and water conservation measures are recommended, even if your design does not require them.**
- 5. All construction shall conform to the State of Maine Subsurface Waste Disposal Rules chapter 241.**
- 6. All fill shall be loamy medium sharp sand or coarser, with sufficient fines for compaction. Fill shall be place in 8 inch lifts. Top 4 inches of cover shall be loam or sandy loam, to assure a good catch of grass.**
- 7. All wells shall be at least 100 feet from the leaching field unless a variance is granted.**
- 8. Property lines are as provided by the owner and no accuracy is implied. Actual lines must be confirmed by a survey.**
- 9. All Residential installations of new tanks shall have a Zabel Model A1800 filter or equal installed, unless pumping. Provide a low profile septic tank when determined to be necessary in the field.**
- 10. Force mains, pump stations, and/or gravity piping subject to freezing shall be adequately insulated.**
- 11. Systems shall be provided with adequate erosion control until adequate vegetated cover is established.**
- 12. The design flow of the system should not be exceeded in any day.**
- 13. Remove all vegetation and organic material under the leach field and fill extensions. Caution-- avoid compaction of original soil under the bed and fill extentions during construction.**
- 14. The LPI shall inform the owner and designer of any local ordinances or requirements exceeding the Rules, prior to issuing a permit, so that the application may be properly amended.**
- 15. GeoFlow Pipe shall be installed according to Installation Handbook Dated April 1,1993 or latest revision. For installation advice and best price order GeoFlow Pipe direct from manufacturer. Call Norman Clavet (207) 783-0224 or Tom Caouette (207) 786-0264**

## SEPTIC SYSTEM USER NOTES

1. This septic system has been designed to meet requirements of the State of Maine Subsurface Waste disposal rules, 10-144A CMR 241. Because site Evaluators are not notified when local ordinances are enacted which exceed state requirements, it is the owner's responsibility to ensure that this system design (HHE-200 form) is in compliance with local ordinances. This can be done by contacting your local LPI and asking about local ordinances which differ from those required in the Rules.
2. It is the owner's responsibility to obtain any local, state or federal permit(s) that may be required for the installation of this septic system (work within or adjacent to a wetland may require a state and/or federal permit). Contact the Maine Dept. of Environmental Protection at 289-2111 or the Army Corps of Engineers at 623-8367, if you have any questions.
3. The use of a garbage grinder on a septic system is not recommended and is not part of this design. If a garbage grinder is to be used, additional tank capacity, filters such as the Zabel A-100, and more frequent tank pumping is required.
4. It is recommended that the owner install low volume toilets (1 1/2 gallon or less per flush) and other flow reducing fixtures to minimize water consumption. This should extend the life of the system, all other things being equal.
5. It is the owners responsibility to limit water consumption and waste water so that the septic system design capacity is not exceeded on any day. Activities which generate large amounts of wastewater should be spread out over several days rather than doing a number of them on a particular day. Excessive use of a system on any day (typically weekends) can cause the system to fail, even if the flow averaged out over the month or week is below design volume.
6. Do not connect roof or floor drains to a septic system. The system is not designed to handle this water and may cause premature failure. Do not dispose of backwash from water softeners or water treatment devices for the same reason.
7. Do not dispose of any hazardous or toxic substances in a septic system, such as paint, paint thinners & solvents, varnishes, photographic solutions, pesticides, insecticides, organic solvents or degreasers, and drain cleaners or openers. Instead of a commercial degreaser or drain opener, use one of the following:
  - a. A plunger or mechanical snake, or
  - b. Pour 1 handful of baking soda and 1/2 cup of white vinegar down the drain pipe and cover for one minute. Repeat as necessary, or
  - c. Pour 1/2 cup salt and 1/2 cup baking soda down the drain followed by 6 cups of boiling water. Let sit several hours or overnight. Then flush with water.
8. Do not dispose of any inert or non-biodegradeable substances into your septic system such as disposable diapers, cat box litter, coffee grounds, cigarette filters, sanitary napkins, facial tissues and wet strength paper towels.
9. Do not dispose of large quantities of fats or grease into your septic system unless an external grease trap has been installed for that purpose. Generally, an internal grease trap is inadequate to handle excessive amounts of grease or fat.
10. Do not add any septic tank cleaner or additive to your septic system to improve its function or prolong its useful operating life. This includes yeast, horse manure, or commercial products. No effective product or material is recognized by State authorities and some products may cause your system to fail.
11. Maintain your septic system by regularly having the septic tank pumped. Some biological breakdown of solid and grease occurs in the tank but the rate of accumulation virtually always exceeds the rate of breakdown. If your tank is not pumped often enough, solids and greases may build up to the point where they enter the disposal area. Once this material reaches the disposal area it will clog the soil surface and likely cause premature failure.
12. I recommend having your septic tank pumped or inspected after one year of use. The pumper can advise you how often you need to have the tank pumped based on what he finds at this inspection. Typically a tank is pumped every 2 to 5 years. Adjust the pumping frequency with changes in how you use the system--the more you use the system, the more frequently the tank should be pumped.
13. Divert all surface water away from the septic tank and disposal area. Roof area that contributes runoff water to septic system site should have gutters installed to divert water to another location.
14. PLEASE- If you have any questions about your system or how to use it call and ask me for advice at 1-(800) 763-4088. can also call the Division of Health Engineering at 289-5672.

DAVID STUDER, LSE #275

93 SPRAGUE RD., WASHINGTON, ME, 04574