

SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION

Maine Department of Human Services
Division of Health Engineering, 10 SHS
(207) 287-5672 Fax: (207) 287-3165

PROPERTY LOCATION		>> CAUTION: PERMIT REQUIRED - ATTACH IN SPACE BELOW <<	
City, Town, or Plantation	AUGUSTA	AUGUSTA 5411 TOWN COPY Date Permitted: 10/19/04 \$100.00 FEE Charged L.P.I. # 850 Signature: <i>Mary P. Tuttle</i> Local Plumbing Inspector Signature	
Street or Road	83 LONE INDIAN TRAIL		
Subdivision, Lot #	FOX GLEN DEVELOPMENT		
OWNER/APPLICANT INFORMATION			
Name (last, first, MI)	RYAN, THOMAS		
Mailing Address of Owner/Applicant	204 ROCKWOOD DR SOUTH CHINA ME 04358		
Daytime Tel. #	626-0188 EXT 222 (work)	Municipal Tax Map # 4A Lot # 77	
OWNER OR APPLICANT STATEMENT		CAUTION: INSPECTION REQUIRED	
I state and acknowledge 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: <i>Thomas Ryan</i> Date: 10-1-04		Local Plumbing Inspector Signature: _____ (2nd) date approved: _____	

PERMIT INFORMATION		
TYPE OF APPLICATION	THIS APPLICATION REQUIRES	DISPOSAL SYSTEM COMPONENTS
<input checked="" type="checkbox"/> 1. First Time System <input type="checkbox"/> 2. Replacement System Type replaced: _____ Year installed: _____ <input type="checkbox"/> 3. Expanded System <input type="checkbox"/> a. Minor Expansion <input type="checkbox"/> b. Major Expansion <input type="checkbox"/> 4. Experimental System <input type="checkbox"/> 5. Seasonal Conversion	<input checked="" type="checkbox"/> 1. No Rule Variance <input type="checkbox"/> 2. First Time System Variance <input type="checkbox"/> a. Local Plumbing Inspector Approval <input type="checkbox"/> b. State & Local Plumbing Inspector Approval <input type="checkbox"/> 3. Replacement System Variance <input type="checkbox"/> a. Local Plumbing Inspector Approval <input type="checkbox"/> b. State & Local Plumbing Inspector Approval <input type="checkbox"/> 4. Minimum Lot Size Variance <input type="checkbox"/> 5. Seasonal Conversion Permit	<input checked="" type="checkbox"/> 1. Complete Non-engineered System <input type="checkbox"/> 2. Primitive System (graywater & alt. toilet) <input type="checkbox"/> 3. Alternative Toilet, specify: _____ <input type="checkbox"/> 4. Non-engineered Treatment Tank (only) <input type="checkbox"/> 5. Holding Tank, _____ gallons <input type="checkbox"/> 6. Non-engineered Disposal Field (only) <input type="checkbox"/> 7. Separated Laundry System <input type="checkbox"/> 8. Complete Engineered System (2000 gpd or more) <input type="checkbox"/> 9. Engineered Treatment Tank (only) <input type="checkbox"/> 10. Engineered Disposal Field (only) <input type="checkbox"/> 11. Pre-treatment, specify: _____ <input type="checkbox"/> 12. Miscellaneous Components
SIZE OF PROPERTY	DISPOSAL SYSTEM TO SERVE	PROPOSED TYPE OF WATER SUPPLY
6.25 SQ. FT. ACRES	<input type="checkbox"/> 1. Single Family Dwelling Unit, No. of Bedrooms: _____ <input type="checkbox"/> 2. Multiple Family Dwelling, No. of Units: _____ <input checked="" type="checkbox"/> 3. Other: 3 BEDROOM DWELLING + 2 BEDROOM APT. OVER GARAGE Current Use <input type="checkbox"/> Seasonal <input type="checkbox"/> Year Round <input checked="" type="checkbox"/> Undeveloped	<input checked="" type="checkbox"/> 1. Drilled Well <input type="checkbox"/> 2. Dug Well <input type="checkbox"/> 3. Private <input type="checkbox"/> 4. Public <input type="checkbox"/> 5. Other
SHORELAND ZONING		
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		

DESIGN DETAILS (SYSTEM LAYOUT SHOWN ON PAGE 3)			
TREATMENT TANK	DISPOSAL FIELD TYPE & SIZE	GARBAGE DISPOSAL UNIT	DESIGN FLOW
<input checked="" type="checkbox"/> 1. Concrete WITH FILTER <input type="checkbox"/> a. Regular <input type="checkbox"/> b. Low Profile <input checked="" type="checkbox"/> 2. Plastic 2 TANKS EACH 1000 CAPACITY 2000 TOTAL GAL. <input type="checkbox"/> 3. Other: _____	<input type="checkbox"/> 1. Stone Bed <input type="checkbox"/> 2. Stone Trench <input checked="" type="checkbox"/> 3. Proprietary Device <input type="checkbox"/> a. cluster array <input checked="" type="checkbox"/> c. Linear <input checked="" type="checkbox"/> d. regular load <input type="checkbox"/> d. H-20 load <input type="checkbox"/> 4. Other: _____ SIZE: 800 sq. ft. <input type="checkbox"/> lin. ft.	<input checked="" type="checkbox"/> 1. No <input type="checkbox"/> 2. Yes <input type="checkbox"/> 3. Maybe If Yes or Maybe, specify one below: <input type="checkbox"/> a. multi-compartment tank <input type="checkbox"/> b. _____ tanks in series <input type="checkbox"/> c. increase in tank capacity <input type="checkbox"/> d. Filter on Tank Outlet	450 gallons per day BASED ON: <input checked="" type="checkbox"/> 1. Table 501.1 (dwelling unit(s)) <input type="checkbox"/> 2. Table 501.2 (other facilities) SHOW CALCULATIONS --- for other facilities --- 3 BR DWELLING = 270 2 BR APT OVER GARAGE = 180 450 300 LIN. FT GEOFLOW <input type="checkbox"/> 3. Section 503.0 (meter readings) ATTACH WATER METER DATA
SOIL DATA & DESIGN CLASS	DISPOSAL FIELD SIZING	EFFLUENT/EJECTOR PUMP	
PROFILE CONDITION DESIGN 3 C 1 at Observation Hole # 10-1 Depth 15" of Most Limiting Soil Factor	<input type="checkbox"/> 1. Small--2.0 sq. ft. / gpd <input type="checkbox"/> 2. Medium--2.6 sq. ft. / gpd <input checked="" type="checkbox"/> 3. Medium--Large 3.3 sq. ft. / gpd <input type="checkbox"/> 4. Large--4.1 sq. ft. / gpd <input type="checkbox"/> 5. Extra Large--5.0 sq. ft. / gpd	<input type="checkbox"/> 1. Not Required <input checked="" type="checkbox"/> 2. May Be Required <input type="checkbox"/> 3. Required Specify only for engineered systems: DOSE: _____ gallons	

SITE EVALUATOR STATEMENT		
I certify that on 9-16-04 (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).		
Signature: <i>David Studer</i>	275	9-20-04
David Studer, LSE 93 Sprague Road Washington, ME 04574 207-845-2352	SE #	Date
845-2352	irenic@midcoast.com	
Telephone Number	E-mail Address	

Note: Changes to or deviations from the design should be confirmed with the Site Evaluator.

SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION

Maine Department of Human Services
Division of Health Engineering, Station 10
(207) 287-5672 Fax: (207) 287-3165

Town, City, Plantation

AUGUSTA

Street, Road, Subdivision

LONE INDIAN TRAIL

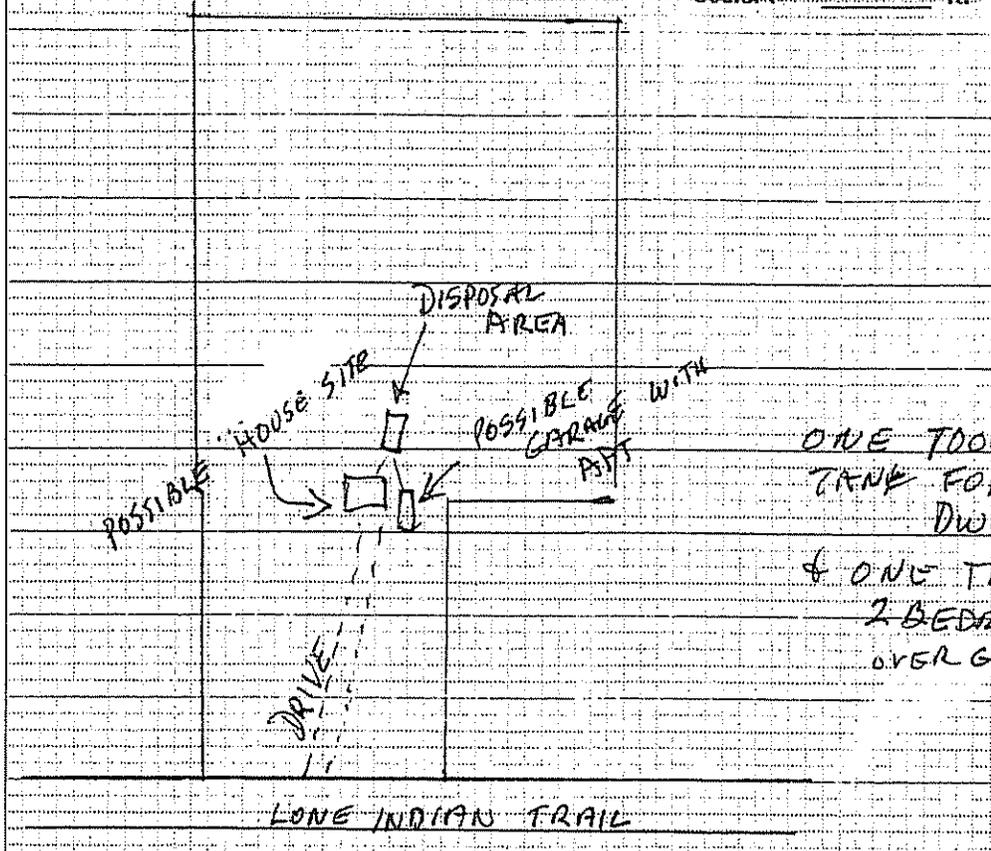
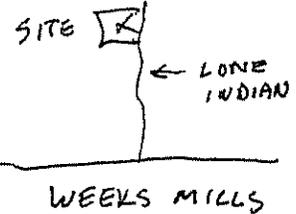
Owner or Applicant Name

THOMAS RYAN

SITE PLAN

Scale: 1" = 200 ft.

SITE LOCATION MAP
(Attach map from Maine Atlas
for First Time System Variance)



ONE 1000 GAL
TANK FOR 3 BR.
DWELLING
& ONE TANK FOR
2 BEDROOM APT
OVER GARAGE

SOIL PROFILE DESCRIPTION AND CLASSIFICATION

(Location of Observation Holes Shown Above)

Observation Hole # TP-1 & TP-2 Test Pit Boring

2-1/2 " Depth of organic horizon above mineral soil

Depth below mineral soil surface (inches)	Texture	Consistency	Color	Mottling
0	<u>CLAY</u>		<u>DK BR</u>	
5	<u>GRAVELLY SANDY LOAM TO LOAMY SAND</u>		<u>ORANGE BN</u>	
12		<u>FIRM</u>	<u>DRIVE</u>	<u>COMMON DISFINCT</u>
18				
24				
30				
36				
42				
48				

Soil Profile <u>3</u>	Classification <u>C</u>	Slope <u>6-8</u> Percent	Limiting Factor <u>15</u> Depth	<input checked="" type="checkbox"/> Groundwater <input type="checkbox"/> Restrictive Layer <input type="checkbox"/> Bedrock
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Observation Hole # _____ Test Pit Boring

_____ " Depth of organic horizon above mineral soil

Depth below mineral soil surface (inches)	Texture	Consistency	Color	Mottling
0				
6				
12				
18				
24				
30				
36				
42				
48				

Soil Profile _____	Classification _____	Slope _____ Percent	Limiting Factor _____ Depth	<input type="checkbox"/> Groundwater <input type="checkbox"/> Restrictive Layer <input type="checkbox"/> Bedrock
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David Studer
Site Evaluator Signature

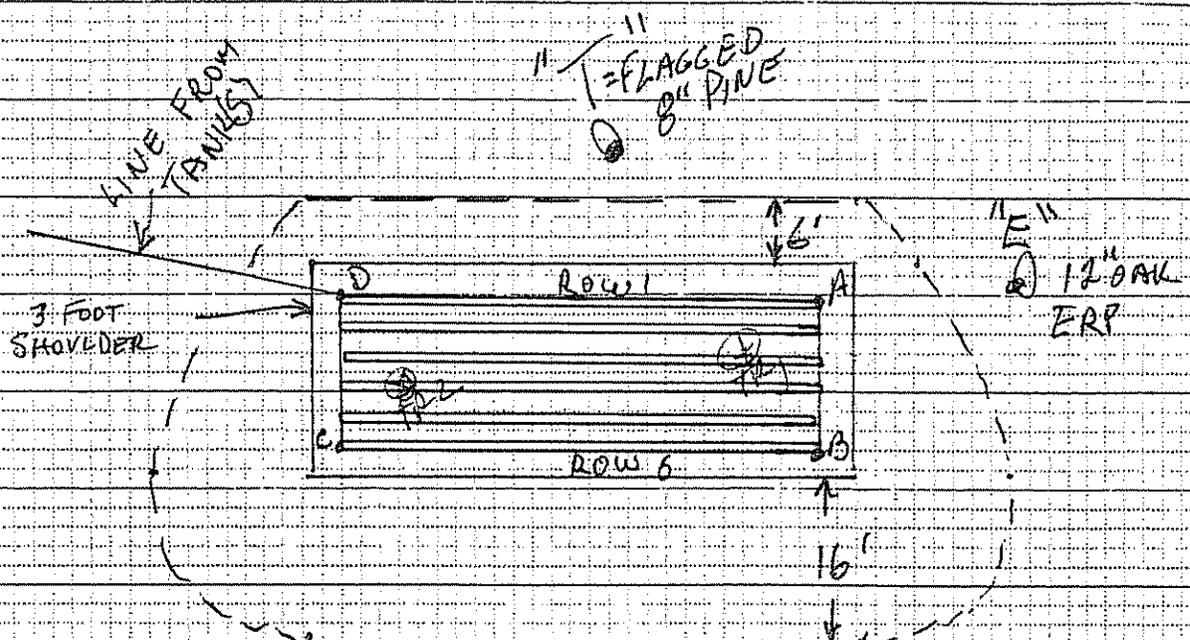
275
SE #

9-20-04
Date

SUBSURFACE WASTEWATER DISPOSAL PLAN

Scale: 1" = 20' ft.

EA = 20.5'
 EB = 27'
 ET = 41'
 FA = 27.5'
 TD = 42'



6 ROWS of 50' LONG GEOWEB OR ENVIRO-SEPTIC
 3' ON CENTER
 2" EDGED PIPE TO
 D EDGE of PIPE

ORIGINAL ELEVATIONS:
 A + D = -48"
 B + C = -60"

BACKFILL REQUIREMENTS

Depth of Backfill (upslope) 21"
 Depth of Backfill (downslope) 33"
 DEPTHS AT CROSS-SECTION (shown below)

CONSTRUCTION ELEVATIONS

Finished Grade Elevation 12" OVER GEOWEB
 Top of Distribution Pipe or Proprietary Device 33"
 Bottom of Disposal Field -45"

ELEVATION REFERENCE POINT

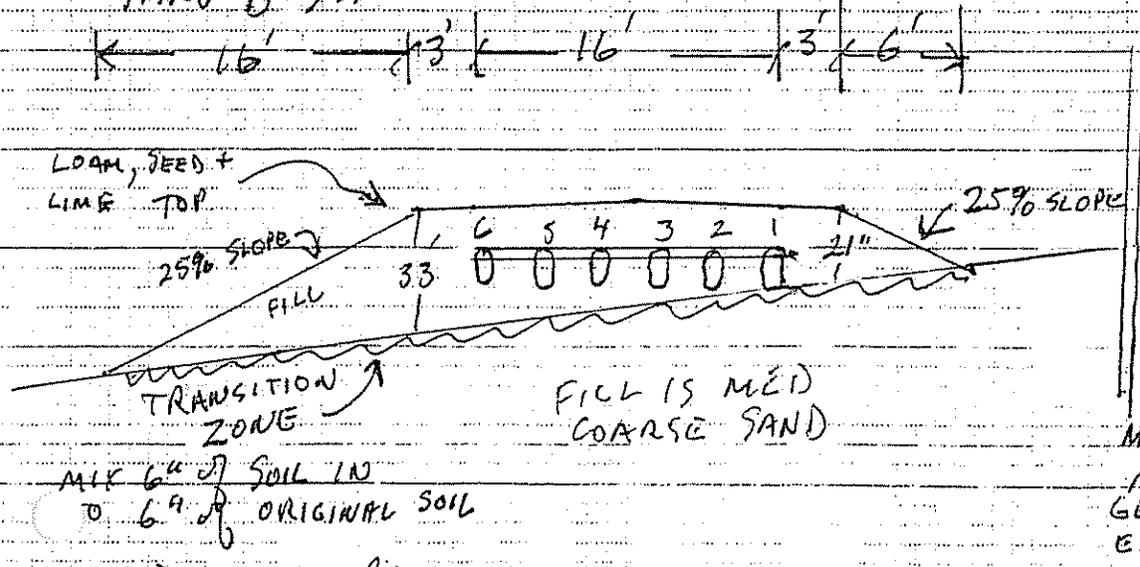
Location & Description: NAIL IN 12" OAK 48" ABOVE A
 Reference Elevation is: 0.0" or: _____

DISPOSAL FIELD CROSS-SECTION

Scales:

Vertical: 1" = 5' ft.
 Horizontal: 1" = 10' ft.

DETAIL NOT TO SCALE



David Studer
 Site Evaluator Signature

275
 SE #

9-20-04
 Date

1. You should have your septic tank pumped out every 3 years to prolong the life of the system.
2. Water softeners should drain to a separate graywater disposal system.
3. Your septic system must be installed on correct elevations and all joints, etc must be water tight. This applies to the pump tanks 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 State of Maine Subsurface Waste Disposal Rules, Chapter 241.
6. Fill shall be loamy medium sharp sand with sufficient fines for compaction. See Rules for backfill specifications. Fill shall be placed in 8-10 lifts. The top 4 inches of cover shall be loam or sandy loam, to assure a good catch of grass.
7. All well shall be at least 100 feet from leaching field unless a variance is granted or the well is cased to appropriate depth. See rules.
8. Property lines are as provided by the owner. No accuracy is implied. Actual lines must be confirmed by a survey.
9. Installation of tanks shall have a Zabel Model A-1800 or equal on outlet, unless pumping. Install a low profile tank when it is determined to be necessary by field conditions.
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 vegetated cover is established.
12. Remove all vegetation and organic material under the leach field and extensions--
Caution--Avoid compaction of original soil under the leaching field and extensions during construction.
13. The design flow should not be exceeded in any day. Do not install garbage grinders or disposals with this design.
14. The LPI shall inform the owner and designer of any local ordinances or requirements exceeding the rules, prior to issuing the permit, so that the application may be properly amended.
15. GeoFlow pipe and Envio-Septic pipe are considered equal in the rules.

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. Contacting your local LPI can do this 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 fixture 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 wastewater 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 drainpipe 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-biodegradable substances into your septic system such as disposable diapers, cat 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 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. You can also call the Division of Health Engineering at 289-5672.

DAVID STUDER, LSE #275

93 SPRAGUE RD., WASHINGTON, ME, 04574