

THE NEW LPI..

AND OTHER TIPS..



WHAT YOU ALWAYS WANTED TO KNOW.....

We Will Be Covering..

- HHE-200 FORMS
- SITE EVALUATION PROCESS
- SETBACKS
- PERMITTING
- BACKFILL MATERIAL
- INSPECTIONS
- COMPLAINTS
- ISSUES

OUR RULES

- SUBSURFACE WASTEWATER
- GUIDANCE SUPPLEMENT SSWD
- APPOINTMENT & ADMIN OF LPI'S
- SEASONAL CONVERSION
- MIN. LOT SIZE
- ENFORCEMENT MANUAL
- SITE EVALUATORS

**Why Are Local Plumbing
Inspectors needed???**

§4221. Plumbing inspectors

1. Appointment; compensation; removal. In every municipality, the municipal officers shall appoint one or more inspectors of plumbing, who need not be residents of the municipality for which they are appointed.

Plumbing inspectors are appointed for a term of one year or more and must be sworn and the appointment recorded

The municipal officers shall notify the department and the State Planning Office of the appointment of a plumbing inspector in writing within 30 days of the appointment.

Compensation of plumbing inspectors is determined by the municipal officers and paid by the respective municipalities.

The municipal officers may remove a plumbing inspector for cause, after notice and hearing.

Duties. Plumbing inspectors shall:

Inspect all plumbing for which permits are granted, within their respective municipalities, to ensure compliance with state rules and municipal ordinances and investigate all construction or work covered by those rules and ordinances

Condemn and reject all work done or being done or material used or being used which does not comply with state rules and municipal ordinances, and order changes necessary to obtain compliance



Issue a certificate of approval
for any work that the
inspector has approved

Keep an accurate account of all fees
collected and transfer those fees to the
municipal treasurer

Keep a complete record of all essential
transactions of the office

Perform other duties as provided by
municipal ordinance

Investigate complaints of alleged violations relating to plumbing or subsurface waste water disposal and take appropriate action as specified by the department by rule in the department's enforcement manual for subsurface waste water disposal and plumbing rules ...AND

Accompany staff of the Department of Environmental Protection or the department in the conduct of a sanitary survey intended to identify potentially failing subsurface waste water disposal systems affecting shellfish harvesting areas when requested by either agency.

OTHER REASONS....

SOUTH HAVEN

City unsure why the sewer smells

By KRISTIN HAY
H-P Correspondent

SOUTH HAVEN — The tests have been inconclusive in trying to locate the source of a mysterious odor that has been detected in several downtown South Haven businesses.

Bob Stickland, the director of

Stickland said he will discuss the strategy of putting a non-toxic smoke into the sewer to detect the path of the offensive gas emanating from basement drains.

"Somebody is putting something into the sewer that is creating the odor," Stickland said in an interview after the council meeting. "We are trying to find out





Indirect Waste: Lowest point of pipe to flood level rim shall be 1 inch min.

Fail















STATE STATUTE TITLE 30-A

SS 4211, #3

SUBSURFACE WASTEWATER DISPOSAL SYSTEM:

No person may ERECT A STRUCTURE that requires a subsurface wastewater disposal system until documentation has been provided to the municipal officers that the disposal system can be constructed in compliance with rules adopted under Title 22, Section 42 (MAINE SUBSURFACE WASTEWATER DISPOSAL RULES) and this section.

**IM ONLY BUILDING
A SHED**

STORAGE SHED

10' WIDE X 16' LONG

2 X 4 TRUSSES, 1/2" PLYWOOD GUSSETS, 24" O.C.

1X CEDAR FASCIA

5/8" TEXTURED-
PLYWOOD
SIDING

10 X 60"
TRANSOM
WINDOW

ASPHALT
SHINGLES

1/2" CDX
ROOF
SHEATHING

1X CEDAR RAILS
AND BRACES

3/4" T&G PLYWOOD DECKING

2 X 4 WALL FRAMING, 24" O.C.

4 X 8 X 16" CONCRETE-BLOCK PIER

2 X 6 PRESSURE-TREATED JOISTS, 16" O.C.

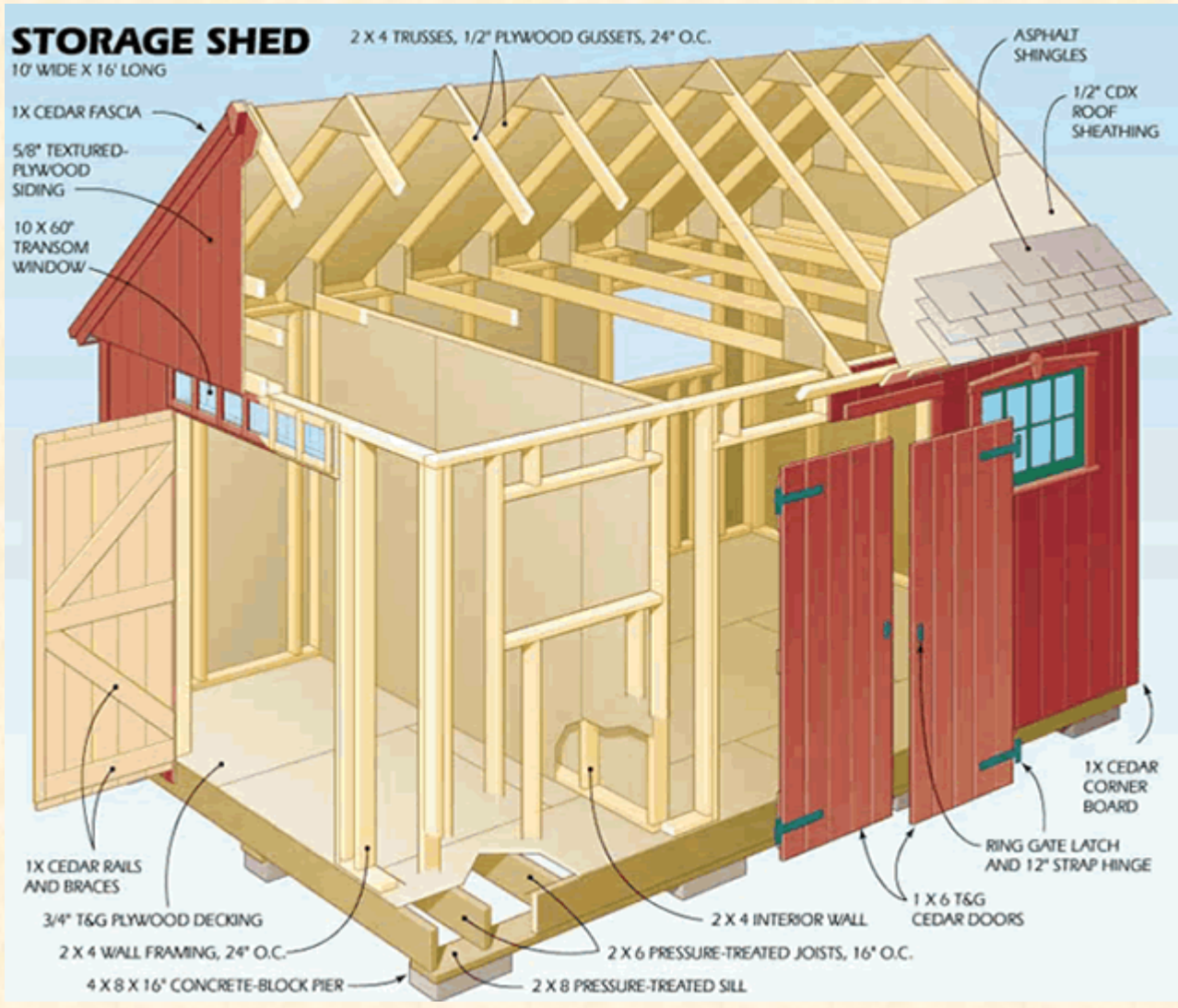
2 X 8 PRESSURE-TREATED SILL

2 X 4 INTERIOR WALL

1 X 6 T&G
CEDAR DOORS

1X CEDAR
CORNER
BOARD

RING GATE LATCH
AND 12" STRAP HINGE



**6 MONTHS LATER YOU
JUST HAPPEN TO BE
DRIVING BY.....**





SECTION 2 ADMINISTRATION: E (4)

- . Expansion (Increase in wastewater flow) refers to the enlargement or change in use of a structure using an existing subsurface wastewater disposal system that brings the total structure into a classification that requires larger subsurface wastewater disposal system components under these Rules, or the replacement of an alternative toilet with a water closet, and/or the addition of pressurized water to a structure, as follows:

The initial expansion of a single family home by the addition of one or more bedrooms,
or
the introduction of mechanically pressurized water to a structure formerly served by hand pumped or hand carried water;

The initial expansion of a non-residential structure which results in an increase in design flow of 10 percent or more;

or

Expansions of a structure, such as a porch, living room or sun room, which do not increase the design flow, are exempt from the requirements of this Section.



**Does a dwelling need
Fixtures?**

**UNIFORM PLUMBING CODE
2009**

Section 412.0

Minimum Number of Fixtures

412.1 Fixture Count

Plumbing Fixtures Shall Be Provided For The
Type Of Building Occupancy And In The Minimum
Number Shown in

Table 4-1

Table 4-1

UNIFORM PLUMBING CODE

TABLE 4-1
Minimum Plumbing Facilities¹

Each building shall be provided with sanitary facilities, including provisions for persons with disabilities as prescribed by the Department Having Jurisdiction. Table 4-1 applies to new buildings, additions to a building, and changes of occupancy or type in an existing building resulting in increased occupant load. Exception: New cafeterias used only by employees.

The total occupant load shall be determined in accordance with the Building Code. The type of building or occupancy shall be determined based on the actual use of the various spaces within the building. Building categories not shown in Table 4-1 shall be considered separately by the Authority Having Jurisdiction. The minimum number of fixtures shall be calculated at 50 percent male and 50 percent female based on the total occupant load.

Once the occupant load and uses are determined, the requirements of Section 412.0 and Table 4-1 shall be applied to determine the minimum number of plumbing fixtures required.

Type of Building ² or Occupancy	Water Closets ¹⁴ (Fixtures per Person)		Urinals ^{5, 10} (Fixtures per Person)	Lavatories (Fixtures per Person)		Bathubs or Showers (Fixtures per Person)	Drinking ^{3, 13, 17} Fountains (Fixtures per Person)
	Male	Female		Male	Female		
Assembly places – theatres, auditor- iums, convention halls, etc.– for permanent employee use	Male 1: 1-15 2: 16-35 3: 36-55 Over 55, add 1 fixture for each additional 40 persons.	Female 1: 1-15 3: 16-35 4: 36-55	Male 0: 1-9 1: 10-50 Add one fixture for each additional 50 males.	Male 1 per 40	Female 1 per 40		
Assembly places – theatres, auditor- iums, convention halls, etc.– for public use	Male 1: 1-100 2: 101-200 3: 201-400 Over 400, add one fixture for each additional 500 males and 1 for each additional 125 females.	Female 3: 1-50 4: 51-100 8: 101-200 11: 201-400	Male 1: 1-100 2: 101-200 3: 201-400 4: 401-600 Over 600, add 1 fixture for each additional 300 males.	Male 1: 1-200 2: 201-400 3: 401-750 Over 750, add one fixture for each addi- tional 500 persons.	Female 1: 1-200 2: 201-400 3: 401-750		1: 1-150 2: 151-400 3: 401-750 Over 750, add one fixture for each additional 500 persons.
Dormitories ⁹ – School or labor ¹⁶	Male 1 per 10 Add 1 fixture for each addi- tional 25 males (over 10) and 1 for each additional 20 females (over 8).	Female 1 per 8	Male 1 per 25 Over 150, add 1 fixture for each additional 50 males.	Male 1 per 12 Over 12, add one fixture for each additional 20 males and 1 for each 15 additional females.	Female 1 per 12	1 per 8 For females, add 1 bathtub per 30. Over 150, add 1 bathtub per 20.	1 per 150 ²²
Dormitories – for staff use ¹⁴	Male 1: 1-15 2: 16-35 3: 36-55 Over 55, add 1 fixture for each additional 40 persons.	Female 1: 1-15 3: 16-35 4: 36-55	Male 1 per 50	Male 1 per 40	Female 1 per 40	1 per 8	
Dwellings ⁴ Single dwelling Multiple dwelling or apartment house ¹⁵	1 per dwelling 1 per dwelling or apartment unit			1 per dwelling 1 per dwelling or apart- ment unit		1 per dwelling 1 per dwelling or apartment unit	
Hospital waiting rooms	1 per room			1 per room			1 per 150 ¹²

**Does a dwelling need hot
and cold water?**

**UNIFORM PLUMBING CODE
2009**

Chapter 6

Section 601.0
Hot And Cold Water Required

Section 601.1

CHAPTER 6

WATER SUPPLY AND DISTRIBUTION

601.0 Hot and Cold Water Required.

601.1 Except where not deemed necessary for safety or sanitation by the Authority Having Jurisdiction, each plumbing fixture shall be provided with an adequate supply of potable running water piped thereto in an approved manner, so arranged as to flush and keep it in a clean and sanitary condition without danger of backflow or cross-connection. Water closets and urinals shall be flushed by means of an approved flush tank or flushometer valve.

Exception: Listed fixtures that do not require water for their operation and are not connected to the water supply.

In occupancies where plumbing fixtures are installed for private use, hot water shall be required for bathing, washing, laundry, cooking purposes, dishwashing or maintenance. In occupancies where plumbing fixtures are installed for public use, hot water shall be required for bathing and washing purposes. This requirement shall not supersede the requirements for individual temperature control limitations for public lavatories, bathtubs, whirlpool bathtubs and shower control valves.

601.2 Identification of a Potable and Nonpotable Water System. In buildings where potable water and nonpotable water systems are installed, each system shall be clearly identified in accordance with Sections 601.2.1 through 601.2.4.

601.2.1 Potable Water. Green background with white lettering.

601.2.2 Color and Information. Each system shall be identified with a colored pipe or band and coded with paints, wraps and materials compatible with the piping.

listed in Table 14-1, discharge side shall be 1

601.2.4 Outlets. Each water line that is used i be posted with black follows: "CAUTION: N DO NOT DRINK."

601.3 Faucets and diverters water distribution system sponds to the left side of the

TABLE
Minimum Length of Color

Outside Diameter of Pipe or Covering		of
inches	(mm)	inc
1/2 to 1-1/4	(15 to 32)	8
1-1/2 to 2	(40 to 50)	8
2-1/2 to 6	(65 to 150)	12
8 to 10	(200 to 250)	24
Over 10	(Over 250)	32

602.0 Unlawful Connectio

602.1 No installation of po or part thereof shall be mac will be possible for usec contaminated water, mixtu any portion of such piping equipment, or plumbing f siphonage, suction, or any normal use and operation tank, receptor, equipmen flooded or subject to pres

Section 2 A(5) – Subsurface Rules

Wastewater disposal: Any wastewater, as defined in these Rules must be disposed of by one of the following methods:

On-site disposal: A subsurface wastewater disposal system designed, installed, and used in accordance with these Rules;

Public sewer: A public sewer system; or

Licensed discharge: A wastewater discharge system licensed by the Maine Department of Environmental Protection under 38 M.R.S. §§ 413 and § 414-A, as amended.

Section 2A(6) Subsurface Rules

Public sewer connection: A connection to a public sewer system is required either

- (a) when public sewers come within 200 feet of the premises served, and a public sewer connection is required by 38 M.R.S. §1160,

or

- (b) when required by municipal ordinance pursuant to 30-A M.R.S. § 3405.

BUNKHOUSES

A DETACHED BEDROOM HAVING **NO PLUMBING**; ACCESSORY TO A SINGLE FAMILY DWELLING FOR THE TEMPORARY ACCOMODATIONS OF GUESTS OF THE PROPERTY OWNER WHILE THE OWNER IS AN OCCUPANT OF THE PRINCIPAL DWELLING.

**SUBSURFACE
WASTEWATER
APPLICATIONS
(HHE-200)**

HHE-200 Form

Page One

Page one of the HHE-200 Form must be signed by both the owner/applicant and the Site Evaluator.

It is important to check that each block on the form is properly completed. If any information is lacking, the LPI should not issue the permit.

SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION		Maine Dept Health & Human Services Div of Environmental Health, 11 SHS (207) 287-5672 Fax: (207) 287-4172	
PROPERTY LOCATION		>> CAUTION: LPI APPROVAL REQUIRED <<	
City, Town, or Plantation	Windham	Town/City	Permit # _____
Street or Road	15 Lake Road	Date Permit Issued ___/___/___	Fee: \$ _____ Double Fee Charged []
Subdivision, Lot #	n/a	Local Plumbing Inspector Signature	L.P.I. # _____
OWNER/APPLICANT INFORMATION		<input type="checkbox"/> Owner <input checked="" type="checkbox"/> Applicant	
Name (last, first, MI)	Jones, Robert A.	The Subsurface Wastewater Disposal System shall not be installed until a Permit is issued by the Local Plumbing Inspector. The Permit shall authorize the owner or installer to install the disposal system in accordance with this application and the Maine Subsurface Wastewater Disposal Rules.	
Mailing Address of Owner/Applicant	James Smith Acme Realty Box 77 Windham ME 04092	Municipal Tax Map # _____	Lot # _____
Daytime Tel. #	(207) 123-4567	CAUTION: INSPECTION REQUIRED	
OWNER OR APPLICANT STATEMENT		I have inspected the installation authorized above and found it to be in compliance with the Subsurface Wastewater Disposal Rules Application. (1st) date approved _____	
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.		Signature of Owner or Applicant _____ Date _____ Local Plumbing Inspector Signature _____ (2nd) date approved _____	
PERMIT INFORMATION			
TYPE OF APPLICATION	THIS APPLICATION REQUIRES	DISPOSAL SYSTEM COMPONENTS	
<input type="checkbox"/> 1. First Time System <input checked="" type="checkbox"/> 2. Replacement System Type replaced: trench Year installed: 1995 <input type="checkbox"/> 3. Expanded System <input type="checkbox"/> a. <25% Expansion <input type="checkbox"/> b. >25% 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 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	TYPE OF WATER SUPPLY	
0.85 <input type="checkbox"/> SQ FT <input checked="" type="checkbox"/> ACRES	<input checked="" type="checkbox"/> 1. Single Family Dwelling Unit, No. of Bedrooms: 3 <input type="checkbox"/> 2. Multiple Family Dwelling, No. of Units: _____ <input type="checkbox"/> 3. Other: _____ (specify)	<input type="checkbox"/> 1. Drilled Well <input checked="" type="checkbox"/> 2. Dug Well <input type="checkbox"/> 3. Private <input type="checkbox"/> 4. Public <input type="checkbox"/> 5. Other	
SHORELAND ZONING	DESIGN DETAILS (SYSTEM LAYOUT SHOWN ON PAGE 3)		
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	TREATMENT TANK	DISPOSAL FIELD TYPE & SIZE	GARBAGE DISPOSAL UNIT
	<input checked="" type="checkbox"/> 1. Concrete <input type="checkbox"/> a. Regular <input type="checkbox"/> b. Low Profile <input type="checkbox"/> 2. Plastic <input type="checkbox"/> 3. Other: _____ GAL CAPACITY: 1000 GAL	<input checked="" type="checkbox"/> 1. Stone Bed <input type="checkbox"/> 2. Stone Trench <input type="checkbox"/> 3. Proprietary Device <input type="checkbox"/> a. cluster array <input type="checkbox"/> c. Linear <input type="checkbox"/> b. regular load <input type="checkbox"/> d. H-20 load <input type="checkbox"/> 4. Other: _____ SIZE: _____ sq. ft. _____ 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
	SOIL DATA & DESIGN CLASS	DISPOSAL FIELD SIZING	EFFLUENT/EJECTOR PUMP
	PROFILE CONDITION: _____ / C #LObservation Hole # 4 Depth _____" of Most Limiting Soil Factor	<input type="checkbox"/> 1. Medium—2.6 sq. ft. / gpd <input checked="" type="checkbox"/> 2. Medium—Large 3.3 sq. ft. / gpd <input type="checkbox"/> 3. Large—4.1 sq. ft. / gpd <input type="checkbox"/> 4. Extra Large—5.0 sq. ft. / gpd	<input type="checkbox"/> Not Required <input type="checkbox"/> May Be Required <input checked="" type="checkbox"/> Required Specify only for engineered systems: DOSE: _____ gallons
	SITE EVALUATOR STATEMENT		
	I certify that on 06/16/11 (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	SE #	Date
	John Doe	300	06/16/11
	Site Evaluator Name Printed	Telephone Number	E-mail Address
		(207) 765-4321	jdoe@isp.com
Note : Changes to or deviations from the design should be confirmed with the Site Evaluator.			
			Page 1 of 3 HHE-200 Rev. 08/2011

SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION		Maine Dept. Health & Human Services Div of Environmental Health, 11 SHS (207) 287-5672 Fax: (207) 287-4172	
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City, Town, or Plantation	Windham	Town/City	Permit #
Street or Road	15 Lake Road	Date Permit Issued	Fee: \$ Double Fee Charged []
Subdivision, Lot #	n/a	Local Plumbing Inspector Signature	L.P.I. #
OWNER/APPLICANT INFORMATION		<input type="checkbox"/> Owner <input type="checkbox"/> Town <input type="checkbox"/> State	
Name (last, first, MI)	Jones, Robert A.	The Subsurface Wastewater Disposal System shall not be installed until a Permit is issued by the Local Plumbing Inspector. The Permit shall authorize the owner or installer to install the disposal system in accordance with this application and the Maine Subsurface Wastewater Disposal Rules.	
Mailing Address of Owner/Applicant	James Smith Acme Realty Box 77 Windham ME 04092	Municipal Tax Map #	Lot #
Daytime Tel. #	(207) 123-4567		
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 _____ Date _____		Local Plumbing Inspector Signature _____ (1st) date approved _____ Local Plumbing Inspector Signature _____ (2nd) date approved _____	
PERMIT INFORMATION			
TYPE OF APPLICATION	THIS APPLICATION REQUIRES	DISPOSAL SYSTEM COMPONENTS	
<input type="checkbox"/> 1. First Time System	<input checked="" type="checkbox"/> 1. No Rule Variance	<input checked="" type="checkbox"/> 1. Complete Non-engineered System	
<input checked="" type="checkbox"/> 2. Replacement System	<input type="checkbox"/> 2. First Time System Variance	<input type="checkbox"/> 2. Primitive System (graywater & alt. toilet)	
Type replaced: trench	<input type="checkbox"/> a. Local Plumbing Inspector Approval	<input type="checkbox"/> 3. Alternative Toilet, specify: _____	
Year installed: +/- 1965	<input type="checkbox"/> b. State & Local Plumbing Inspector Approval	<input type="checkbox"/> 4. Non-engineered Treatment Tank (only)	
<input type="checkbox"/> 3. Expanded System	<input type="checkbox"/> 3. Replacement System Variance	<input type="checkbox"/> 5. Holding Tank _____ gallons	
<input type="checkbox"/> a. <25% Expansion	<input type="checkbox"/> a. Local Plumbing Inspector Approval	<input type="checkbox"/> 6. Non-engineered Disposal Field (only)	
<input type="checkbox"/> b. >25% Expansion	<input type="checkbox"/> b. State & Local Plumbing Inspector Approval	<input type="checkbox"/> 7. Separated Laundry System	
<input type="checkbox"/> 4. Experimental System	<input type="checkbox"/> 4. Minimum Lot Size Variance	<input type="checkbox"/> 8. Complete Engineered System (2000 gpd or more)	
<input type="checkbox"/> 5. Seasonal Conversion	<input type="checkbox"/> 5. Seasonal Conversion Permit	<input type="checkbox"/> 9. Engineered Treatment Tank (only)	
SIZE OF PROPERTY	DISPOSAL SYSTEM TO SERVE	<input type="checkbox"/> 10. Engineered Disposal Field (only)	
0.85 <input type="checkbox"/> SQ. FT. <input checked="" type="checkbox"/> ACRES	<input checked="" type="checkbox"/> 1. Single Family Dwelling Unit, No. of Bedrooms: 3	<input type="checkbox"/> 11. Pre-treatment, specify: _____	
SHORELAND ZONING	<input type="checkbox"/> 2. Multiple Family Dwelling, No. of Units: _____	<input type="checkbox"/> 12. Miscellaneous Components	
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> 3. Other: _____ (specify)	TYPE OF WATER SUPPLY	
	Current Use <input type="checkbox"/> Seasonal <input type="checkbox"/> Year Round <input type="checkbox"/> Undeveloped	<input type="checkbox"/> 1. Drilled Well <input checked="" type="checkbox"/> 2. Dug Well <input type="checkbox"/> 3. Private	
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	<input checked="" type="checkbox"/> 1. Stone Bed <input type="checkbox"/> 2. Stone Trench	<input checked="" type="checkbox"/> 1. No <input type="checkbox"/> 2. Yes <input type="checkbox"/> 3. Maybe	270 gallons per day
<input checked="" type="checkbox"/> a. Regular	<input type="checkbox"/> 3. Proprietary Device	If Yes or Maybe, specify one below:	BASED ON:
<input type="checkbox"/> b. Low Profile	<input type="checkbox"/> a. cluster array <input type="checkbox"/> c. Linear	<input type="checkbox"/> a. multi-compartment tank	<input checked="" type="checkbox"/> 1. Table 4A (dwelling unit(s))
<input type="checkbox"/> 2. Plastic	<input type="checkbox"/> b. regular load <input type="checkbox"/> d. H-20 load	<input type="checkbox"/> b. _____ tanks in series	<input type="checkbox"/> 2. Table 4C (other facilities)
<input type="checkbox"/> 3. Other: _____	<input type="checkbox"/> 4. Other: _____	<input type="checkbox"/> c. increase in tank capacity	SHOW CALCULATIONS for other facilities
CAPACITY: 1000 GAL.	SIZE: _____ sq. ft. _____ lin. ft.	<input type="checkbox"/> d. Filter on Tank Outlet	3 BR SFD
SOIL DATA & DESIGN CLASS	DISPOSAL FIELD SIZING	EFFLUENT/EJECTOR PUMP	<input type="checkbox"/> 3. Section 4G (meter readings)
PROFILE CONDITION 5 / C	<input type="checkbox"/> 1. Medium---2.6 sq. ft. / gpd	<input type="checkbox"/> Not Required	ATTACH WATER METER DATA
at Observation Hole # 4	<input checked="" type="checkbox"/> 2. Medium---Large 3.3 sq. ft. / gpd	<input type="checkbox"/> May Be Required	LATITUDE AND LONGITUDE
Depth _____	<input type="checkbox"/> 3. Large---4.1 sq. ft. / gpd	<input checked="" type="checkbox"/> Required	at center of disposal area
of Most Limiting Soil Factor	<input type="checkbox"/> 4. Extra Large---5.0 sq. ft. / gpd	Specify only for engineered systems:	Lat. _____ d _____ m _____ s
		DOSE: _____ gallons	Lon. _____ d _____ m _____ s
			if g.p.s. state margin of error: _____
SITE EVALUATOR STATEMENT			
I certify that on 06/15/11 (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		SE #	Date
John Doe		(207) 765-4321	06/16/11
Site Evaluator Name Printed		Telephone Number	E-mail Address
			jdoe@isp.com
Note : Changes to or deviations from the design should be confirmed with the Site Evaluator.			

HHE-200 Form

Page Two

Page 2 consists of a general site plan and soil test pit logs.

The LPI should check the soil profile and condition shown in the test pit logs against the profile and condition used for design purposes on Page 1.

The LPI should also check that at least one test pit is located in the disposal area.

SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION
 Department of Human Services
 Division of Health Engineering
 Centers Here

FORM, CITY, PARISHION STREET ROAD, COORDINATOR OFFICE HERE
WINDHAM **15 LAKE ROAD** **JONES R.**

SITE PLAN Scale 1" = 50' FL. **SITE LOCATION PLAN** (Attach Map from Maine Atlas for new system variance)

The site plan shows a disposal area bounded by Lake Road to the east and Sebago Lake to the west. It includes two wells, two test pits (TP 1 and TP 2), and an existing malfunctioning trench system. Dimensions are provided for various areas. The location map shows the site's position relative to Jones Road and Sebago Lake.

SOIL DESCRIPTION AND CLASSIFICATION				(Location of Observation Holes Shown Above)			
Observation Hole <u>TP 1</u> <input checked="" type="checkbox"/> Test Pit <input type="checkbox"/> Boring				Observation Hole <u>TP 2</u> <input checked="" type="checkbox"/> Test Pit <input type="checkbox"/> Boring			
* Depth of Organic Horizon Above Mineral Soil				* Depth of Organic Horizon Above Mineral Soil			
Texture	Consistency	Color	Mottling	Texture	Consistency	Color	Mottling
FINE SANDY LOAM		DARK BROWN		SANDY LOAM		DARK BROWN	
LOAMY SAND		REDDISH BROWN		FINE SAND		YELLOWISH BROWN	
FINE SAND	FRIABLE	YELLOWISH BROWN			FRIABLE	OLIVE	
MEDIUM SAND		OLIVE BROWN		SAND			
FINE SAND							
			COMMON, DISTINCT				COMMON, DISTINCT
Soil Classification	Slope	Limiting Factor		Soil Classification	Slope	Limiting Factor	
<u>S</u> <u>C</u>	<u>10</u> %	<u>42</u>		<u>S</u> <u>C</u>	<u>10</u> %	<u>44</u>	

Site Engineer Signature _____ Date 6-10-83

Page 2 of 2
 HHE-200 Rev. 4/80

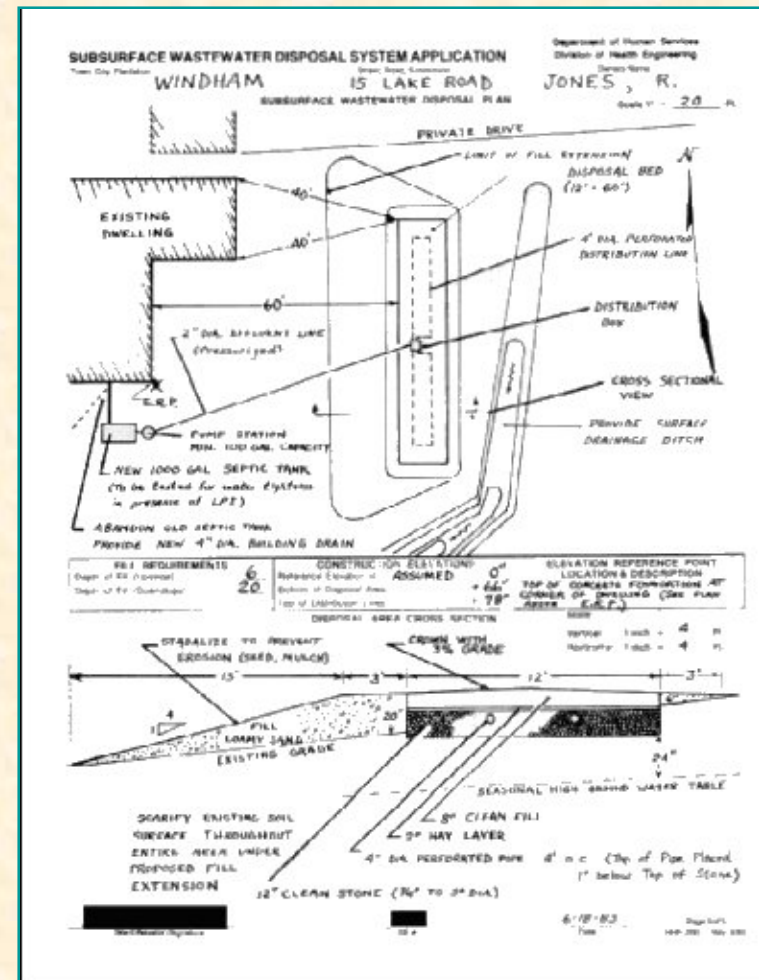
HHE-200 Form

Page Three

Page 3 consists of a detailed construction plan which indicates the location of the treatment tank, disposal field, limits of fill, extension, setbacks, property lines, test pit locations, and elevation reference point location.

This plan must include horizontal swing ties, system layout, and construction elevations.

Page three also contains a representative cross section of the disposal area.





SITE EVALUATION PROCESS



Why is a site evaluation needed?

To prevent contamination and health risks

HOW??

- Evaluates type of soil (drainage capabilities)
- Keeps system away from wells, water bodies. (setback requirements)
- Keeps system away from the water table, ledge and other restrictive layers (separation distances)
- Size of system— based on soil type and # of bedrooms.
- Determines what type of system is best for property.



A site evaluation is needed for;

All Newly Designed

Subsurface sewage disposal systems

Pit privies

Holding tanks

**IF THE STATE AND LOCAL
PLUMBING INSPECTOR
APPROVAL BOX IS CHECKED**

**DO NOT PERMIT IT,
SEND IT TO US FOR
APPROVAL**

SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION		Maine Dept. Health & Human Services Div of Environmental Health, 11 SHS (207) 287-5672 Fax: (207) 287-4172	
PROPERTY LOCATION		>> CAUTION: LPI APPROVAL REQUIRED <<	
City, Town, or Plantation	Windham	Town/City _____	Permit # _____
Street or Road	15 Lake Road	Date Permit Issued ___/___/___	Fee: \$ _____ Double Fee Charged []
Subdivision, Lot #	n/a	Local Plumbing Inspector Signature _____	L.P.I. # _____
OWNER/APPLICANT INFORMATION		<input type="checkbox"/> Owner <input type="checkbox"/> Town <input type="checkbox"/> State <input type="checkbox"/> Applicant	
Name (last, first, MI)	Jones, Robert A.	The Subsurface Wastewater Disposal System shall not be installed until a Permit is issued by the Local Plumbing Inspector. The Permit shall authorize the owner or installer to install the disposal system in accordance with this application and the Maine Subsurface Wastewater Disposal Rules.	
Mailing Address of Owner/Applicant	James Smith Acme Realty Box 77 Windham ME 04092	Municipal Tax Map # _____	Lot # _____
Daytime Tel. #	(207) 123-4567	OWNER OR APPLICANT STATEMENT	
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.		CAUTION: INSPECTION REQUIRED I have inspected the installation authorized above and found it to be in compliance with the Subsurface Wastewater Disposal Rules Application. (1st) date approved _____ (2nd) date approved _____	
Signature of Owner or Applicant _____ Date _____		Local Plumbing Inspector Signature _____ (2nd) date approved _____	
PERMIT INFORMATION			
TYPE OF APPLICATION	THIS APPLICATION REQUIRES	DISPOSAL SYSTEM COMPONENTS	
<input type="checkbox"/> 1. First Time System <input checked="" type="checkbox"/> 2. Replacement System Type replaced: trench Year installed: +/- 1965 <input type="checkbox"/> 3. Expanded System <input type="checkbox"/> a. <25% Expansion <input type="checkbox"/> b. >25% 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	TYPE OF WATER SUPPLY	
0.85 <input type="checkbox"/> SQ. FT. <input checked="" type="checkbox"/> ACRES	<input checked="" type="checkbox"/> 1. Single Family Dwelling Unit, No. of Bedrooms: 3 <input type="checkbox"/> 2. Multiple Family Dwelling, No. of Units: _____ <input type="checkbox"/> 3. Other: _____ (specify)	<input type="checkbox"/> 1. Drilled Well <input checked="" type="checkbox"/> 2. Dug Well <input type="checkbox"/> 3. Private <input type="checkbox"/> 4. Public <input type="checkbox"/> 5. Other	
SHORELAND ZONING	Current Use <input type="checkbox"/> Seasonal <input type="checkbox"/> Year Round <input type="checkbox"/> Undeveloped		
<input checked="" type="checkbox"/> Yes <input 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 <input type="checkbox"/> a. Regular <input type="checkbox"/> b. Low Profile <input type="checkbox"/> 2. Plastic <input type="checkbox"/> 3. Other: _____ CAPACITY: 1000 GAL.	<input checked="" type="checkbox"/> 1. Stone Bed <input type="checkbox"/> 2. Stone Trench <input type="checkbox"/> 3. Proprietary Device <input type="checkbox"/> a. cluster array <input type="checkbox"/> c. Linear <input type="checkbox"/> b. regular load <input type="checkbox"/> d. H-20 load <input type="checkbox"/> 4. Other: _____ SIZE: _____ sq. ft. _____ 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	270 _____ gallons per day BASED ON: <input checked="" type="checkbox"/> 1. Table 4A (dwelling unit(s)) <input type="checkbox"/> 2. Table 4C (other facilities) SHOW CALCULATIONS for other facilities 3 BR SFD <input type="checkbox"/> 3. Section 4G (meter readings) ATTACH WATER METER DATA
SOIL DATA & DESIGN CLASS	DISPOSAL FIELD SIZING	EFFLUENT/EJECTOR PUMP	LATITUDE AND LONGITUDE
PROFILE CONDITION 5 / C at Observation Hole # 4 Depth 42" of Most Limiting Soil Factor	<input type="checkbox"/> 1. Medium---2.6 sq. ft. / gpd <input checked="" type="checkbox"/> 2. Medium---Large 3.3 sq. ft. / gpd <input type="checkbox"/> 3. Large---4.1 sq. ft. / gpd <input type="checkbox"/> 4. Extra Large---5.0 sq. ft. / gpd	<input type="checkbox"/> Not Required <input type="checkbox"/> May Be Required <input checked="" type="checkbox"/> Required Specify only for engineered systems: DOSE: _____ gallons	at center of disposal area Lat. _____ d _____ m _____ s Lon. _____ d _____ m _____ s if g.p.s. state margin of error: _____
SITE EVALUATOR STATEMENT			
I certify that on 06/15/11 (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		900 SE #	06/16/11 Date
John Doe		(207) 765-4321 Telephone Number	jdoe@isp.com E-mail Address
Site Evaluator Name Printed			
Note : Changes to or deviations from the design should be confirmed with the Site Evaluator.			

SITE EVALUATION PROCESS

Site Evaluation Process

The physical characteristics of a parcel of land must be fully evaluated in order to design a safe and effective disposal system. Each site has its own unique characteristics and limitations which must be observed and considered in the design.

Observations of the surrounding land and development are just as important as viewing the particular parcel of land under consideration.

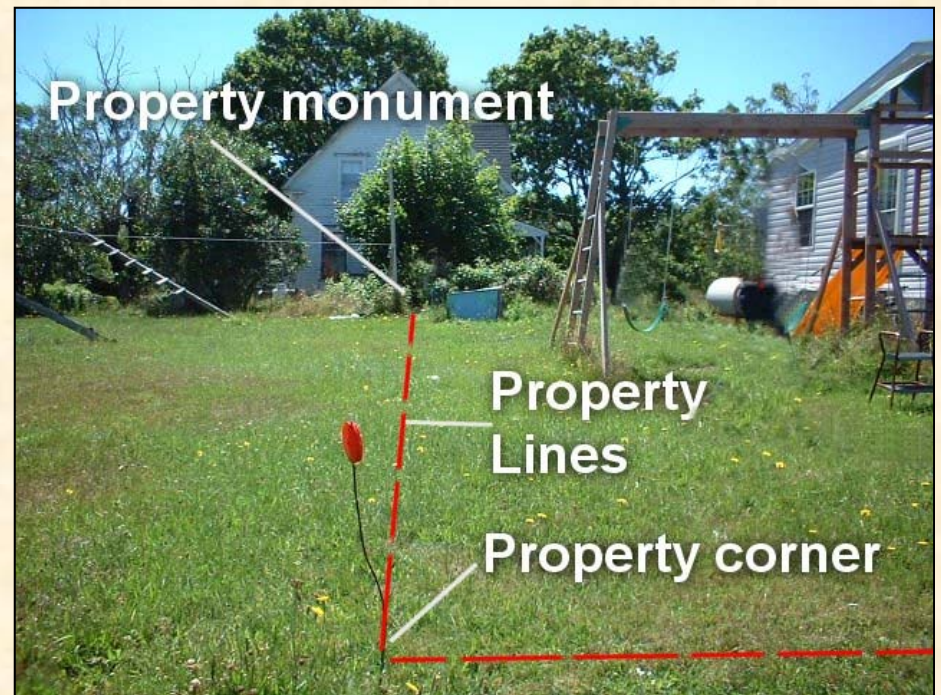


SITE EVALUATION PROCESS

Site Evaluation Process

Sometimes the applicant has a preference to where the system is to be placed if the soil conditions are accommodating. First considerations should be given to the desired locations if at all possible.

This site's potential locations for a replacement disposal area are limited by adjacent development and a small lot size.



SITE EVALUATION PROCESS

Site Evaluation Process

Existing ground slope beneath the disposal field shall not exceed 20 percent (20 feet in 100 feet). The disposal field is defined as the area under the stone bed or proprietary devices only.



SITE EVALUATION PROCESS

Setback Requirements

Table 7B – Less than 1000 gpd

Waterbody setbacks

Major water body – 100 ft.

Minor water body - 50 ft.

Drainage ditch – 25 ft.

Toe of fill to wetlands - 25 ft.



SITE EVALUATION PROCESS

Setback Requirements

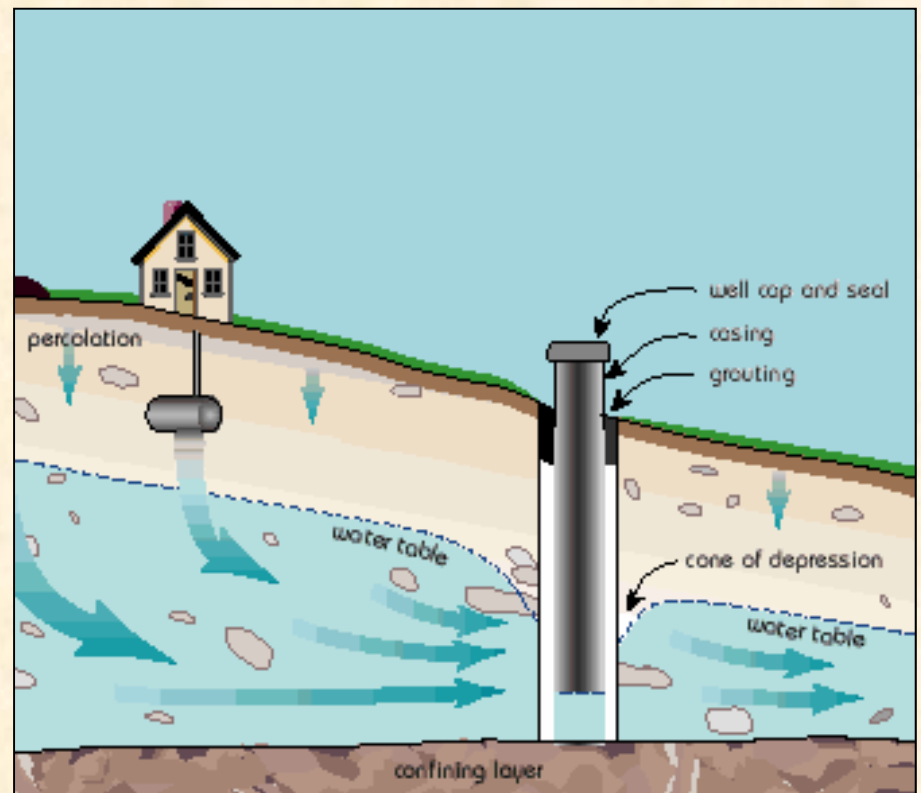
Table 7B – Less than 1000
gpd

Well setbacks (without
variances)

Potable Water Supply-100 ft.
(Owners/Abutters well)

Public supply well – 300 ft.

Water line (not main) – 10 ft.



Subsurface Wastewater Disposal Rules

Setback Requirements

Table 7B – Less than 1000 gpd

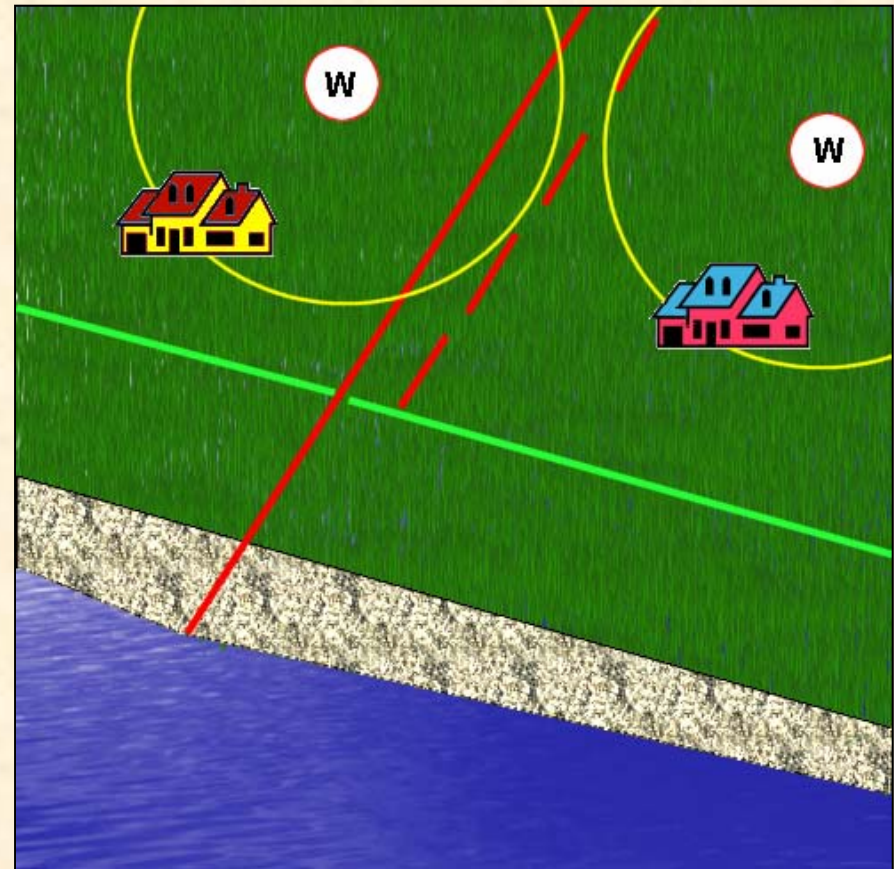
Structures and property lines:

Property lines – 10 ft.

Slab, etc. foundation – 15 ft.

Full foundations/frost walls – 20 ft.

Burial grounds – 25 ft. from toe of
fill



Subsurface Wastewater Disposal Rules

Setback Requirements

Table 7B – Less than 1000 gpd

Structures and property lines:

Property lines – 10 ft.

Slab, etc. foundation – 15 ft.

Full foundations – 20 ft.

Burial grounds – 25 ft. from toe
of fill



SITE EVALUATION PROCESS

Site Evaluation Process

Disposal of liquids into the soil from a disposal area is through soil pores, between soil aggregates and through root channels. Soil texture, soil structure, moisture content, and root penetration also affect the liquid movement through the soil.



Setbacks for Septic Tanks

- Full Basement – 8 feet
- Slab – 8 feet
- Both can be reduced to 5 feet for Replacement Systems
- Private Wells – 50 feet
- Public Wells – 150 feet
- Can be reduced to 25 feet for Private Wells, no reduction for Public Wells



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MINIMUM SOIL CONDITIONS OUTSIDE THE SHORELAND ZONE

- Table 4F - First Time Systems requires 9 inches to most limiting factor.

MINIMUM SOIL CONDITIONS INSIDE THE SHORELAND ZONE

- Table 4F - First Time Systems requires 15 inches to most limiting factor.

SITE EVALUATION PROCESS

Site Evaluation Process

However, if limited soils are available or there are setback conflicts, the Site Evaluator may have to prepare a variance request, for as best a fit as possible when considering existing development.

This property abuts the site in the prior slide. Note the location of a non-potable dug well, and the drilled well casing under the oil tank.



Definitions

- A primitive disposal system consists of a grey water disposal field designed to handle hand-carried or hand-pumped water only and an alternative toilet.
- A limited system consists of a grey water disposal field to handle water supplied from elevated storage tanks or cisterns, of no more than 1,000 gallons capacity, and portable pumps, among other non-conventional pressurized water supplies, and an alternative toilet.

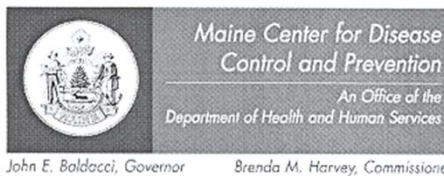
Backup system/Reserve Area Primitive & Limited

- Backup system reserve area required: The site evaluator must delineate on the application (HHE-200 Form) a reserve area where a full-size subsurface wastewater disposal area can be installed in compliance with first-time system criteria. The owner may not take or allow any action which would prevent the use of the reserve area for a disposal area installation. (page 23)

SITE EVALUATION PROCESS

System Variance Request – HHE-204

Division of Environmental Health
Subsurface Wastewater Program



Department of Health and Human Services
Maine Center for Disease Control and Prevention
286 Water Street
11 State House Station
Augusta, Maine 04333-0011
Tel: (207) 287-5689
Fax: (207) 287-3165; TTY: 1-800-606-0215

SUBSURFACE WASTEWATER DISPOSAL SYSTEM VARIANCE REQUEST

This form must accompany an application (HHE-200) for a proposed subsurface wastewater disposal system which requires a variance to provisions of the Subsurface Wastewater Disposal Rules. The local plumbing inspector must not issue a permit for the installation of a subsurface wastewater disposal system requiring a variance from the Department of Health & Human Services until approval has been received from them.

GENERAL INFORMATION		Town/City of _____
Property Owner's Name: _____		Tel. No.: _____
System's Location: _____		
Property Owner's Address: _____		
(if different from above) _____		ZIP Code _____
Property Owner's Telephone Number: _____		E-mail Address: _____

The onsite sewage disposal system design for the subject property requires a replacement system variance first time system variance to the Subsurface Wastewater Disposal Rules. This variance requires local approval only local and state approval.

SPECIFIC VARIANCE REQUESTED (To be filled in by Site Evaluator. Use Additional Sheets, if needed.)	SECTION OF RULE
1. _____	_____
2. _____	_____
3. _____	_____
SITE EVALUATOR	
When a property is found to be unsuitable for subsurface wastewater disposal by a Licensed Site Evaluator, the Evaluator shall so inform the property owner. If the property owner, after exploring all other alternatives, wishes to request a Variance to the Rules, and the Evaluator in his/her professional opinion feels the variance request is justified and the site limitations can be overcome, he/she shall document the soil and site conditions on the Application. The Evaluator shall list the specific variances necessary plus describe below the proposed system design and function. The Evaluator shall further describe how the specific site limitations are to be overcome, and provide any other support documentation as required prior to consideration by the Department. Attach a separate page if necessary.	
_____ _____ _____	
I, _____, S.E., certify that a variance to the Rules is necessary since a system cannot be installed which will completely satisfy all the Rule requirements, and no practical alternative is available. Specifically: _____	
_____ _____	
_____ SIGNATURE OF SITE EVALUATOR	_____ DATE

PROPERTY OWNER	
I, _____, am the <input type="checkbox"/> owner <input type="checkbox"/> agent for the owner of the subject property. I understand that the installation on the Application is not in total compliance with the Rules. Should the proposed system malfunction, I release all concerned provided they have performed their duties in a reasonable and proper manner, and I will promptly notify the Local Plumbing Inspector and make any corrections required by the Rules. By signing the variance request form, I acknowledge permission for representatives of the Department to enter onto the property to perform such duties as may be necessary to evaluate the variance request.	
_____ SIGNATURE OF <input type="checkbox"/> OWNER <input type="checkbox"/> AGENT FOR THE OWNER	_____ DATE

Caring..Responsive..Well-Managed..We are DHHS.

SITE EVALUATION PROCESS

Replacement System Variance Request – HHE-204

Division of Environmental Health
Subsurface Wastewater Program

LOCAL PLUMBING INSPECTOR - Approval at local level

The local plumbing inspector shall review all First Time System Variance requests prior to rendering a decision. I, _____, the undersigned, have visited the above property and find that the variance request submitted by the applicant does not conform with certain provisions of the wastewater disposal rules. The variance request submitted by the applicant is the best alternative for a subsurface wastewater disposal system on this property. The proposed system (does does not) conflict with any provisions controlling subsurface wastewater disposal in the shoreland zone. Therefore, I (do do not) approve the requested variance. I (will will not) issue a permit for the system's installation as proposed by the application.

LPI Signature

Date

LOCAL PLUMBING INSPECTOR - Referral to the Department of Health and Human Services

The local plumbing inspector shall review all First Time System Variance requests prior to forwarding to the Division of Environmental Health. I, _____, the undersigned, have visited the above property and find that the variance request submitted by the applicant does not conform with certain provisions of the wastewater disposal rules. The variance request submitted by the applicant is the best alternative for a subsurface wastewater disposal system on this property. The proposed system (does does not) conflict with any provisions controlling subsurface wastewater disposal in the shoreland zone or local ordinances controlling such disposal. Therefore, I (do do not) recommend the issuance of a permit for the system's installation as proposed by the application.

LPI Signature

Date

FOR USE BY THE DEPARTMENT ONLY

The Department has reviewed the variance(s) and (does does not) give its approval. Any additional requirements, recommendations, or reasons for the Variance denial, are given in the attached letter.

SIGNATURE OF THE DEPARTMENT

DATE

- Note: 1. Variances for soil conditions may be approved at the local level as long as the total point assessment is at least the minimum allowed. (See Section 701.2 for Municipal Review.)
2. Variances for other than soil conditions or soil conditions beyond the limit of the LPI's authority are to be submitted to the Department for review. (See Section 701.1 for Department Review.) The LPI's signature is required on these variance requests prior to submission to the Department.

SOIL, SITE AND ENGINEERING FACTORS FOR FIRST TIME SYSTEM VARIANCE ASSESSMENT WITH LIMITING SOIL DRAINAGE CONDITIONS (SEE TABLES 700.3 to 700.13)

	CHARACTERISTIC	POINT ASSESSMENT
Soil Profile		
Depth to Groundwater/Restrictive Layer		
Terrain		
Size of Property		
Waterbody Setback		
Water Supply		
Type of Development		
Disposal Area Adjustment		
Vertical Separation Adjustment		
Additional Treatment		
TOTAL POINT ASSESSMENT:		

Minimum Points (Check one): Outside Shoreland-50 Inside Shoreland-65 Subdivision-65

**3 COPIES OF THE
HHE-200 FORM IS
DELIVERED TO THE LPI
FROM THE APPLICANT**



HHE-200 Form

Page One

OWNER - APPLICANT

SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION		Maine Dept. Health & 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	* * *	Town/City _____	Permit # _____
Street or Road	* * *	Date Permit Issued ___/___/___	Fee: \$ _____ Double Fee Charged []
Subdivision, Lot #	* * *	_____	L.P.I. # _____
OWNER/APPLICANT INFORMATION		Local Plumbing Inspector Signature _____	
Name (last, first, MI)	* * *	<input type="checkbox"/> Owner <input type="checkbox"/> Town <input type="checkbox"/> State	
	<input checked="" type="checkbox"/> Owner <input type="checkbox"/> Applicant	The Subsurface Wastewater Disposal System shall not be installed until a Permit is issued by the Local Plumbing Inspector. The Permit shall authorize the owner or installer to install the disposal system in accordance with this application and the Maine Subsurface Wastewater Disposal Rules.	
Mailing Address of Owner/Applicant	* * * * * *	Municipal Tax Map # _____ Lot # _____	
Daytime Tel. #	(207) * * * - * * * *	CAUTION: INSPECTION REQUIRED	
OWNER OR APPLICANT STATEMENT 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 the Local Plumbing Inspector to deny a Permit. *** _____ Signature of Owner or Applicant		I have inspected the installation authorized above and found it to be in compliance with the Subsurface Wastewater Disposal Rules Application. _____ Local Plumbing Inspector Signature	
Date **/**/07		(1st) date approved _____ (2nd) date approved _____	

Division of Environmental Health
Subsurface Wastewater Program

HHE-200 Form

Page One

PERMIT INFORMATION		
<p>TYPE OF APPLICATION</p> <p><input checked="" type="checkbox"/> 1. First Time System</p> <p><input type="checkbox"/> 2. Replacement System</p> <p>Type replaced: _____</p> <p>Year installed: _____</p> <p><input type="checkbox"/> 3. Expanded System</p> <p><input type="checkbox"/> a. Minor Expansion</p> <p><input type="checkbox"/> b. Major Expansion</p> <p><input type="checkbox"/> 4. Experimental System</p> <p><input type="checkbox"/> 5. Seasonal Conversion</p>	<p>THIS APPLICATION REQUIRES</p> <p><input type="checkbox"/> 1. No Rule Variance</p> <p><input checked="" type="checkbox"/> 2. First Time System Variance</p> <p><input type="checkbox"/> a. Local Plumbing Inspector Approval</p> <p><input checked="" type="checkbox"/> b. State & Local Plumbing Inspector Approval</p> <p><input type="checkbox"/> 3. Replacement System Variance</p> <p><input type="checkbox"/> a. Local Plumbing Inspector Approval</p> <p><input type="checkbox"/> b. State & Local Plumbing Inspector Approval</p> <p><input type="checkbox"/> 4. Minimum Lot Size Variance</p> <p><input type="checkbox"/> 5. Seasonal Conversion Permit</p>	<p>DISPOSAL SYSTEM COMPONENTS</p> <p><input checked="" type="checkbox"/> 1. Complete Non-engineered System</p> <p><input type="checkbox"/> 2. Primitive System (graywater & alt. toilet)</p> <p><input type="checkbox"/> 3. Alternative Toilet, specify: _____</p> <p><input type="checkbox"/> 4. Non-engineered Treatment Tank (only)</p> <p><input type="checkbox"/> 5. Holding Tank, _____ gallons</p> <p><input type="checkbox"/> 6. Non-engineered Disposal Field (only)</p> <p><input type="checkbox"/> 7. Separated Laundry System</p> <p><input type="checkbox"/> 8. Complete Engineered System (2000 gpd or more)</p> <p><input type="checkbox"/> 9. Engineered Treatment Tank (only)</p> <p><input type="checkbox"/> 10. Engineered Disposal Field (only)</p> <p><input type="checkbox"/> 11. Pre-treatment, specify: _____</p> <p><input type="checkbox"/> 12. Miscellaneous Components</p>
<p>SIZE OF PROPERTY</p> <p>± 4.5 <input type="checkbox"/> SQ. FT.</p> <p><input checked="" type="checkbox"/> ACRES</p>	<p>DISPOSAL SYSTEM TO SERVE</p> <p><input type="checkbox"/> 1. Single Family Dwelling Unit, No. of Bedrooms: _____</p> <p><input type="checkbox"/> 2. Multiple Family Dwelling, No. of Units: _____</p> <p><input checked="" type="checkbox"/> 3. Other: <u>commercial business</u></p> <p>(specify)</p> <p>Current Use <input type="checkbox"/> Seasonal <input checked="" type="checkbox"/> Year Round <input type="checkbox"/> Undeveloped</p>	<p>TYPE OF WATER SUPPLY</p> <p><input checked="" type="checkbox"/> 1. Drilled Well <input type="checkbox"/> 2. Dug Well <input type="checkbox"/> 3. Private</p> <p><input type="checkbox"/> 4. Public <input type="checkbox"/> 5. Other</p>
<p>SHORELAND ZONING</p> <p><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>		

HHE-200 Form

Page One

DESIGN DETAILS (SYSTEM LAYOUT SHOWN ON PAGE 3)			
<p>TREATMENT TANK</p> <p><input checked="" type="checkbox"/> 1. Concrete</p> <p> <input checked="" type="checkbox"/> a. Regular</p> <p> <input type="checkbox"/> b. Low Profile</p> <p><input type="checkbox"/> 2. Plastic</p> <p><input type="checkbox"/> 3. Other: _____</p> <p>CAPACITY: <u>1,500</u> GAL.</p>	<p>DISPOSAL FIELD TYPE & SIZE</p> <p><input type="checkbox"/> 1. Stone Bed <input type="checkbox"/> 2. Stone Trench</p> <p><input checked="" type="checkbox"/> 3. Proprietary Device</p> <p> <input checked="" type="checkbox"/> a. cluster array <input type="checkbox"/> c. Linear</p> <p> <input checked="" type="checkbox"/> b. regular load <input type="checkbox"/> d. H-20 load</p> <p> type: <u>Eljen In-drain</u></p> <p><input type="checkbox"/> 4. Other: _____</p> <p>SIZE: <u>66 units</u> <input type="checkbox"/> sq. ft. <input type="checkbox"/> lin. ft.</p>	<p>GARBAGE DISPOSAL UNIT</p> <p><input checked="" type="checkbox"/> 1. No <input type="checkbox"/> 2. Yes <input type="checkbox"/> 3. Maybe</p> <p>If Yes or Maybe, specify one below:</p> <p><input type="checkbox"/> a. multi-compartment tank</p> <p><input type="checkbox"/> b. ___ tanks in series</p> <p><input type="checkbox"/> c. increase in tank capacity</p> <p><input type="checkbox"/> d. Filter on Tank Outlet</p>	<p>DESIGN FLOW</p> <p><u>750</u> gal lons per day</p> <p>BASED ON:</p> <p><input checked="" type="checkbox"/> 1. Table 501.1 (dwelling unit(s))</p> <p><input type="checkbox"/> 2. Table 501.2 (other facilities)</p> <p>SHOW CALCULATIONS for other facilities</p> <p><u>50 employees @ 15 gpd each</u></p>
<p>SOIL DATA & DESIGN CLASS</p> <p>PROFILE CONDITION DESIGN</p> <p><u>8</u> / <u>C</u> / <u>1</u></p> <p>at Observation Hole # <u>1</u></p> <p>Depth <u>16</u> "</p> <p>of Most Limiting Soil Factor</p>	<p>DISPOSAL FIELD SIZING</p> <p><input type="checkbox"/> 1. Small—2.0 sq. ft. / gpd</p> <p><input type="checkbox"/> 2. Medium—2.6 sq. ft. / gpd</p> <p><input type="checkbox"/> 3. Medium—Large 3.3 sq. ft. / gpd</p> <p><input checked="" type="checkbox"/> 4. Large—4.1 sq. ft. / gpd</p> <p><input type="checkbox"/> 5. Extra Large—5.0 sq. ft. / gpd</p>	<p>EFFLUENT/EJECTOR PUMP</p> <p><input type="checkbox"/> 1. Not Required</p> <p><input type="checkbox"/> 2. May Be Required</p> <p><input checked="" type="checkbox"/> 3. Required</p> <p>Specify only for engineered systems:</p> <p>DOSE: _____ gallo ns</p>	<p><input type="checkbox"/> 3. Section 503.0 (meter readings)</p> <p>ATTACH WATER METER DATA</p> <p>LATITUDE AND LONGITUDE</p> <p>at center of disposal area</p> <p>Lat. <u>044</u> d <u>24</u> m <u>01.8</u> s</p> <p>Lon. <u>069</u> d <u>33</u> m <u>25.2</u> s</p> <p>if g.p.s, state margin of error: _____</p>

HHE-200 Form

Page Two

SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION		Department of Human Services Division of Health Engineering (207) 287-5672 Fax: (207) 287-3165
Town, City, Plantation ***	Street, Road, Subdivision ***	Owner's Name ***
SITE PLAN Scale 1" = 100 ft. or as shown		
<p>THE SYSTEM CONSIST OF 6 ROWS OF 11 UNITS (TOTAL 66 UNITS) OF ELJEN IN-DRAIN 1" APART WITH A DISTRIBUTION BOX (THE END OF EACH ROW SHALL HAVE AN END CAP)</p> <p>DISTRIBUTION BOX WITH EQUALIZERS SET IN 4" LAYER OF COMPACTED SAND AND COVERED WITH 2" OF STYROFOAM INSULATION</p> <p>2" PRESSURE LINE (COVERED WITH 2" RIGID STYROFOAM AND SLEEVE AS NECESSARY)</p> <p>APPROXIMATE LOCATION OF EXISTING SEPTIC SYSTEM</p> <p>APPROXIMATE LOCATION OF PROPOSED BUILDING EXPANSION</p> <p>FORESTED WETLAND</p> <p>REF. PT. B.</p> <p>ERP</p> <p>±40'</p> <p>EXISTING BUILDING</p> <p>287'</p> <p>78'</p> <p>4" SCH. 35 PIPE (1/8" DROP PER FOOT)</p> <p>1500 GAL. CONCRETE SEPTIC TANK SET IN 4" LAYER OF COMPACT SAND OR GRAVEL (8' MIN. FROM BUILDING)</p> <p>PUMP STATION SET IN 4" LAYER OF COMPACT SAND OR GRAVEL</p> <p>4" SCH. 40 PIPE (1/8" DROP PER FOOT)</p> <p>APPROXIMATE LOCATION OF WELL (PUBLIC WATER SUPPLY)</p>		

Division of Environmental Health
Subsurface Wastewater Program

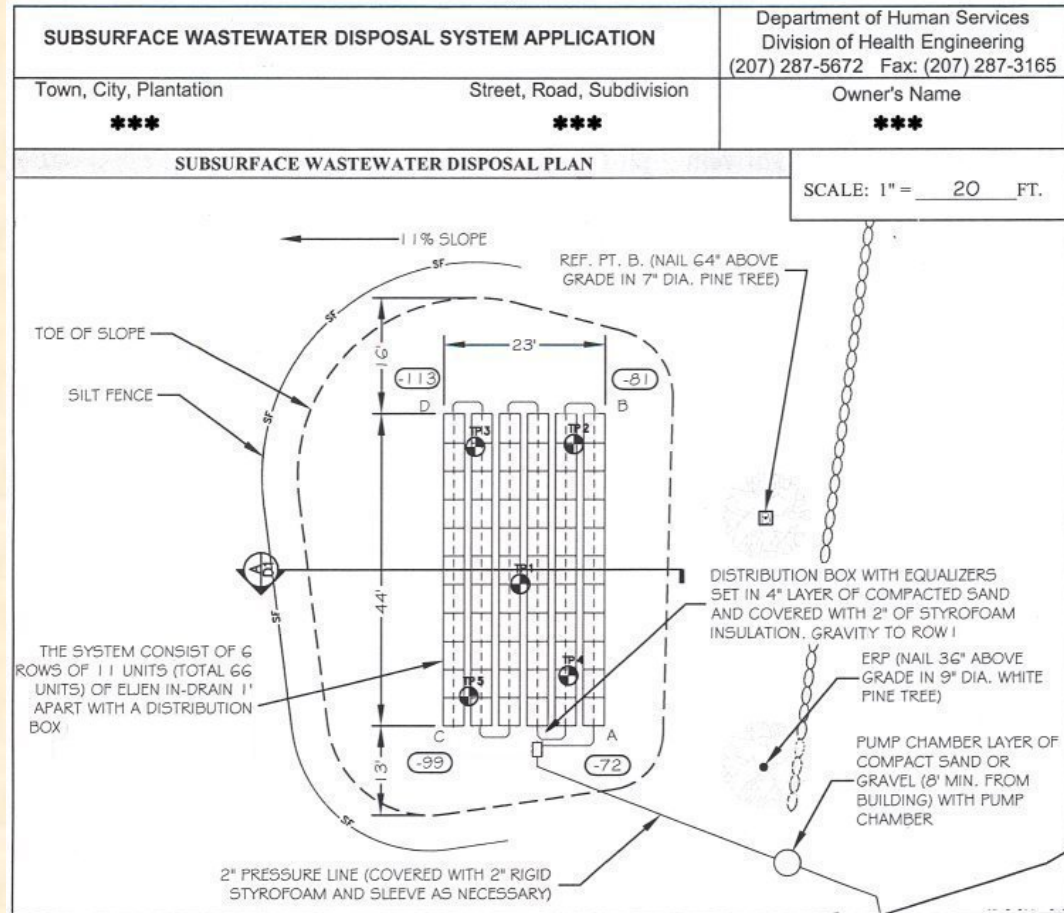
HHE-200 Form

Page Two

SOIL DESCRIPTION AND CLASSIFICATION (Location of Observation Holes Shown Above)							
Observation Hole <u> </u> <input checked="" type="checkbox"/> Test Pit <input type="checkbox"/> Boring				Observation Hole <u>2-5</u> <input checked="" type="checkbox"/> Test Pit <input type="checkbox"/> Boring			
0 " Depth of Organic Horizon Above Mineral Soil				0 " Depth of Organic Horizon Above Mineral Soil			
Depth Below Mineral Soil Surface (inches)	0	Texture	Consistency	Color	Mottling	0	Texture
	10	Fine sandy loam	Fenable	Brown	None	10	Fine sandy loam
	20	Silty clay	Firm	Olive gray	Common medium distinct light olive brown	20	Silty clay
	30					30	
	40					40	
	50					50	
Soil Classification		Slope	Limiting Factor	<input checked="" type="checkbox"/> Ground Water <input type="checkbox"/> Restrictive Layer <input type="checkbox"/> Bedrock <input type="checkbox"/> Pit Depth			
<u>B</u> Profile	<u>C</u> Condition	<u>11</u> %	<u>16</u> "	<u>B</u> Profile	<u>C</u> Condition	<u>11</u> %	<u>16</u> "
***		***		**/**/07		Page 2 of 3	
Site Evaluator Signature		SE #		Date		HHE-200 Rev. 8/01	

HHE-200 Form

Page Three



Division of Environmental Health
Subsurface Wastewater Program

HHE-200 Form

Page Three

FILL REQUIREMENTS	CONSTRUCTION ELEVATIONS	ELEVATION REFERENCE POINT
Depth of Fill (Upslope) <u>20"-29"</u>	Finished Grade Elevation <u>SEE D-1</u>	Location & Description: NAIL 36" ABOVE GRADE IN 9" DIA. WHITE PINE TREE Reference Elevation: <u>0"</u>
Depth of Fill (Downslope) <u>20"-34"</u>	Top of Distribution Pipe or Proprietary Device <u>SEE D-1</u>	
	Bottom of Disposal Area <u>SEE D-1</u>	

DISPOSAL AREA CROSS SECTION

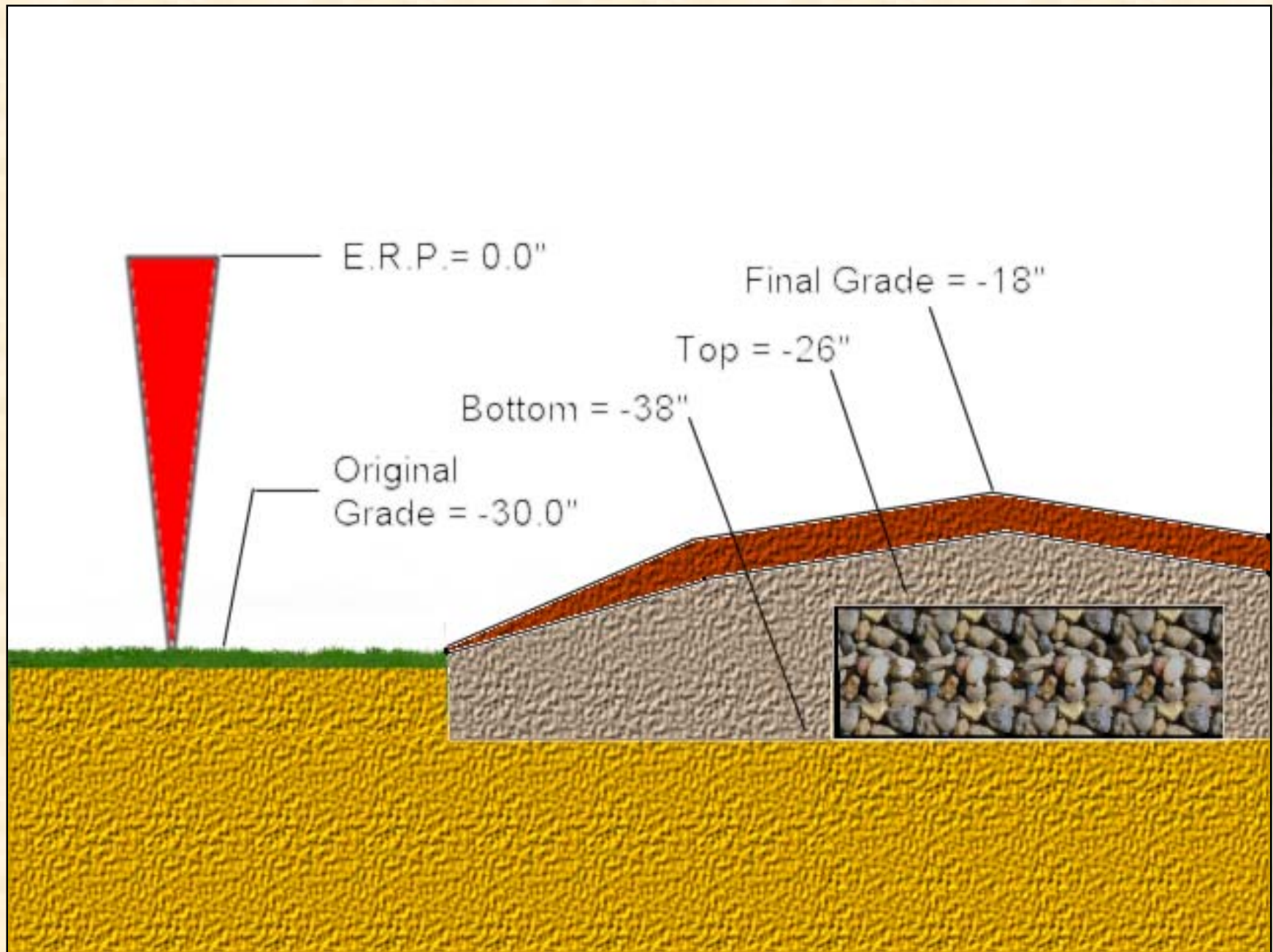
Scale

Horizontal 1" = N/A ft.

Vertical 1" = N/A ft.

ELEVATIONS						
ELEV. REF. PT. (ERP)	0"	6 ROWS OF 11 TYPE B IN-DRAINS				
	ROW 1	ROW 2	ROW 3	ROW 4	ROW 5	ROW 6
FINISHED GRADE	-51"	-56.5"	-62"	-67.5"	-73"	-78"
TOP OF IN-DRAIN UNIT	-63"	-68.5"	-74"	-79.5"	-85"	-90"
BOTTOM OF SAND LAYER	-76"	-81.5"	-87"	-92.5"	-98"	-103"

***	***	**/**/07	
Site Evaluator Signature	SE #	Date	Page 3 of 3 HHE-200 Rev. 8/01



Permitting



**Maine Department of Health and Human Services
Bureau of Health, Division of Health Engineering
Wastewater and Plumbing Control Program**

**NO MORE
PERMIT STICKERS
AS OF AUGUST 1, 2011**

Remaining stickers to be used

**Keep permit numbers
continuous**

PERMITTING HHE-200

When the HHE-200 comes across your desk,
use the rules that are in effect as of that day.
It doesn't matter how old the design is, as long
as it meets the rules.

If it doesn't meet the rules, have it revised.

\$15.00 DEP Surcharge

2009 Budget Bill, PL 2009, ch213

Requires municipalities to assess a \$15.00 surcharge to all non-engineered Subsurface Wastewater system permits, whether a first time, replacement or expansion but not to system components.

The \$15.00 surcharge will need to be accounted for separately and should be submitted to the Department as a separate check for forwarding to the MDEP for processing.

MUNICIPAL AND LURC TERRITORIES PERMIT FEE SCHEDULE

(Fees to be paid to the municipality/LPI)

Permits for complete disposal system and variances

Engineered system	\$200.00
Non-engineered system	\$250.00
Primitive system (includes one alternative toilet)	\$100.00
Separate grey waste disposal field	\$35.00
Seasonal conversion permit	\$50.00
First-Time System Variance	\$20.00

Permits for separate parts of disposal system

Alternative toilet (only)	\$50.00
Disposal field only (engineered system)	\$150.00
Disposal field only (non-engineered)	\$150.00
Treatment tank only (non-engineered)	\$150.00
Treatment tank (engineered system)	\$80.00
Holding tank	\$100.00
Other components (complete pump station, piping, other)	\$30.00

TABLE 3B
DEPARTMENT REVIEW FEE SCHEDULE
(Fees to be paid directly to the Department)

Engineered system review	\$100.00
Minimum lot request review fee	\$50.00
Multi-user review fee	\$100.00
Licensed Establishment Review	\$20.00
Microfilm Record Search	\$5.00

10-144
Chapter 240
STATE OF MAINE
RULES FOR APPOINTMENT AND ADMINISTRATION
OF
LOCAL PLUMBING INSPECTORS

Table A: Permits for Internal Plumbing

Minimum fee, includes up to four fixtures	\$40.00
Individual fixtures, each, above four total	\$10.00
Hook up to public sewer	\$10.00
Hook up to existing subsurface system	\$10.00
Piping relocation with no new fixtures	\$10.00
Permit transfer	\$10.00

Pursuant to 30-A M.R.S. § 4215(4), municipalities retain 75 percent of those minimum permit fees and must forward the remaining 25 % percent to the Department.

Municipalities may assess additional permit fees, above those listed in Table 3A, if authorized to do so by local ordinance, along with any monetary penalties assessed, pursuant to 30-A M.R.S. § 4452(3). The entire additional permit and any penalty fees are retained by the municipality.

Transferable: A disposal system permit is transferable to successive property owners, provided that it has not expired, and no changes to the design are proposed.

Section 2(F)

Disposal area modification, repair or alteration: Any excavation to modify, repair or alter a disposal area, other than the addition of fill, requires a permit. If a permit is required, such modification, repair or alteration must be as prescribed by a Maine professional engineer or a Maine licensed site evaluator and must be considered a disposal area for permitting purposes.

Page 38

The LPI may authorize changes to the location(s) of treatment tanks, lift stations, building sewers, distribution boxes, drop boxes, and force mains provided that applicable minimum setback distances are maintained. Such alterations must be documented by the LPI.



Section 3A.1 PERMIT REQUIRED

WORK MUST NOT BE STARTED UNTIL THE PLUMBING INSPECTOR HAS ISSUED A DISPOSAL SYSTEM PERMIT FOR THE WORK

Section 3C.2a LATE PERMIT FEE: A person who starts construction without first obtaining a permit must pay double the permit fee.

Section 3B.6 TIME LIMIT- WORK MUST BE COMMENCED WITHIN 24 MONTHS OF PERMIT ISSUANCE.

Section 3B.7 DEPARTURES FROM DESIGN- MUST BE APPROVED BY THE SITE EVALUATOR

Section 11I.6 NOTIFICATION REQUIRED- THE LPI SHALL BE NOTIFIED 24 HOURS BEFORE THE SYSTEM IS READY FOR INSPECTION

Design Flows for Dwelling Units

- Min. 2 bed = 180 GPD/each additional=90 gpd
 - Attached garage apartment without kitchen + 90/bed
 - Attached garage apartment with kitchen + 120
 - Separate garage apartment with or without kitchen min 2 bed = 180 GPD (page 20)
-
- Maximum 4 bed can be combined in a 1000 gallon septic tank
 - 5 bedrooms = 1,250 gallon septic tank
 - Each additional bedroom + 250 gallons per bedroom (page 41)

Dwelling unit: Any structure or portion of a structure, permanent or temporary in nature, used or proposed to be used as a residence seasonally or throughout the year.

Permitting

Application

It is important to check that each block on the form is properly completed.

Page one of the HHE-200 Form must be signed by both the owner/applicant and the Site Evaluator before a permit can be issued.

SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION		Maine Dept. Health & Human Services Div of Environmental Health, 11 SHS (207) 287-5672 Fax: (207) 287-4172	
PROPERTY LOCATION		>> CAUTION: LPI APPROVAL REQUIRED <<	
City, Town, or Plantation	Windham	Town/City	Permit #
Street or Road	15 Lake Road	Date Permit Issued	Fee: \$ Double Fee Charged []
Subdivision, Lot #	n/a	Local Plumbing Inspector Signature	L.P.I. #
OWNER/APPLICANT INFORMATION		The Subsurface Wastewater Disposal System shall not be installed until a Permit is issued by the Local Plumbing Inspector. The Permit shall authorize the owner or installer to install the disposal system in accordance with this application and the Maine Subsurface Wastewater Disposal Rules.	
Name (last, first, MI)	Jones, Robert A.	Owner	Town State
Mailing Address of Owner/Applicant	James Smith Acme Realty Box 77 Windham ME 04092	Municipal Tax Map # Lot #	
Daytime Tel. #	(207) 123-4567	CAUTION: INSPECTION REQUIRED	
OWNER OR APPLICANT STATEMENT		I have inspected the installation authorized above and found it to be in compliance with the Subsurface Wastewater Disposal Rules Application. (1st) date approved	
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.		Local Plumbing Inspector Signature (2nd) date approved	
PERMIT INFORMATION			
TYPE OF APPLICATION	THIS APPLICATION REQUIRES	DISPOSAL SYSTEM COMPONENTS	
<input type="checkbox"/> 1. First Time System	<input checked="" type="checkbox"/> 1. No Rule Variance	<input type="checkbox"/> 1. Complete Non-engineered System	
<input checked="" type="checkbox"/> 2. Replacement System	<input type="checkbox"/> 2. First Time System Variance	<input type="checkbox"/> 2. Primitive System (graywater & alt. toilet)	
Type replaced: branch	<input type="checkbox"/> a. Local Plumbing Inspector Approval	<input type="checkbox"/> 3. Alternative Toilet, specify _____	
Year installed: <= 1965	<input type="checkbox"/> b. State & Local Plumbing Inspector Approval	<input type="checkbox"/> 4. Non-engineered Treatment Tank (only)	
<input type="checkbox"/> 3. Expanded System	<input type="checkbox"/> 3. Replacement System Variance	<input type="checkbox"/> 5. Holding Tank, _____ gallons	
<input type="checkbox"/> a. <25% Expansion	<input type="checkbox"/> a. Local Plumbing Inspector Approval	<input type="checkbox"/> 6. Non-engineered Disposal Field (only)	
<input type="checkbox"/> b. >25% Expansion	<input type="checkbox"/> b. State & Local Plumbing Inspector Approval	<input type="checkbox"/> 7. Separated Laundry System	
<input type="checkbox"/> 4. Experimental System	<input type="checkbox"/> 4. Minimum Lot Size Variance	<input type="checkbox"/> 8. Complete Engineered System (2000 gpd or more)	
<input type="checkbox"/> 5. Seasonal Conversion	<input type="checkbox"/> 5. Seasonal Conversion Permit	<input type="checkbox"/> 9. Engineered Treatment Tank (only)	
SIZE OF PROPERTY	DISPOSAL SYSTEM TO SERVE	<input type="checkbox"/> 10. Engineered Disposal Field (only)	
0.85 <input type="checkbox"/> SQ. FT. <input checked="" type="checkbox"/> ACRES	<input checked="" type="checkbox"/> 1. Single Family Dwelling Unit, No. of Bedrooms: 3	<input type="checkbox"/> 11. Pre-treatment, specify _____	
SHORELAND ZONING	<input type="checkbox"/> 2. Multiple Family Dwelling, No. of Units: _____	<input type="checkbox"/> 12. Miscellaneous Components	
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> 3. Other: _____ (specify)	TYPE OF WATER SUPPLY	
	Current Use <input type="checkbox"/> Seasonal <input type="checkbox"/> Year Round <input type="checkbox"/> Undeveloped	<input type="checkbox"/> 1. Drilled Well <input checked="" type="checkbox"/> 2. Dug Well <input type="checkbox"/> 3. Private	
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	<input checked="" type="checkbox"/> 1. Stone Bed <input type="checkbox"/> 2. Stone Trench	<input type="checkbox"/> 1. No <input type="checkbox"/> 2. Yes <input type="checkbox"/> 3. Maybe	270 _____ gallons per day
<input type="checkbox"/> a. Regular	<input type="checkbox"/> 3. Proprietary Device	If Yes or Maybe, specify one below	BASED ON:
<input type="checkbox"/> b. Low Profile	<input type="checkbox"/> a. cluster array <input type="checkbox"/> c. Linear	<input type="checkbox"/> a. multi-compartment tank	<input type="checkbox"/> 1. Table 4A (dwelling unit/s)
<input type="checkbox"/> 2. Plastic	<input type="checkbox"/> b. regular load <input type="checkbox"/> d. H-20 load	<input type="checkbox"/> b. _____ tanks in series	<input type="checkbox"/> 2. Table 4c (other facilities)
<input type="checkbox"/> 3. Other: _____	SIZE: _____ sq. ft. _____ lin. ft.	<input type="checkbox"/> c. increase in tank capacity	SHOW CALCULATIONS for other facilities
CAPACITY: _____ GAL		<input type="checkbox"/> d. Filter on Tank Outlet	3 BR SFD
SOIL DATA & DESIGN CLASS	DISPOSAL FIELD SIZING	EFFLUENT/JECTOR PUMP	<input type="checkbox"/> 3. Section 4G (meter readings) ATTACH WATER METER DATA
PROFILE CONDITION: 5 / C	<input type="checkbox"/> 1. Medium—2-6 sq. ft. / gpd	<input type="checkbox"/> Not Required	LATITUDE AND LONGITUDE at center of disposal area
at/Observation Hole # 4	<input checked="" type="checkbox"/> 2. Medium—Large 3.3 sq. ft. / gpd	<input type="checkbox"/> May Be Required	Lat. _____ d. _____ m. _____ s.
Depth _____ "	<input type="checkbox"/> 3. Large—4.1 sq. ft. / gpd	<input checked="" type="checkbox"/> Required	Lon. _____ d. _____ m. _____ s.
of Most Limiting Soil Factor	<input type="checkbox"/> 4. Extra Large—5.0 sq. ft. / gpd	Specify only for engineered systems: _____ gallons	if g.p.s. state margin of error: _____
SITE EVALUATOR STATEMENT			
I certify that on 06/16/11 (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		900	06/16/11
John Doe		SE #	Date
Site Evaluator Name Printed		(207) 765-4321	jdoe@isp.com
		Telephone Number	E-mail Address
Note : Changes to or deviations from the design should be confirmed with the Site Evaluator.			
			Page 1 of 3 HHE-200 Rev. 08/2011

Permitting

Permits

Permits should only be issued by the Local Plumbing Inspector appointed to the area. If an LPI has more than one area, make sure the correct area is printed on the permit being issued.

Town/City _____	Permit # _____	
Date Permit Issued ___/___/___	Fee: \$ _____	Double Fee Charged []
_____	L.P.I. # _____	
Local Plumbing Inspector Signature	<input type="checkbox"/> Owner <input type="checkbox"/> Town <input type="checkbox"/> State	
<hr/> The Subsurface Wastewater Disposal System shall not be installed until a Permit is issued by the Local Plumbing Inspector. The Permit shall authorize the owner or installer to install the disposal system in accordance with this application and the Maine Subsurface Wastewater Disposal Rules. <hr/>		
Municipal Tax Map # _____	Lot # _____	

Permitting

Record Keeping

HHE-200 Forms and Plumbing Applications should be kept on file by the Town.

Filing by map and lot number is the most popular method simply because everything that has to deal with that certain property is all contained in one folder.

Town/City _____	Permit # _____	
Date Permit Issued ___/___/___	Fee: \$ _____	Double Fee Charged []
_____	L.P.I. # _____	
Local Plumbing Inspector Signature	<input type="checkbox"/> Owner <input type="checkbox"/> Town <input type="checkbox"/> State	
The Subsurface Wastewater Disposal System shall not be installed until a Permit is issued by the Local Plumbing Inspector. The Permit shall authorize the owner or installer to install the disposal system in accordance with this application and the Maine Subsurface Wastewater Disposal Rules.		
Municipal Tax Map # _____	Lot # _____	

Permitting

Replacement Septic Tanks

No soil test needed

The LPI can prepare an application for a replacement septic tank by completing Page 1 of an HHE-200 Form.



Permitting

Vault Privies

Vault privies are permitted as “Alternative Toilet”.

Sealed vaults shall have a minimum liquid capacity of at least 500 gallons.

The LPI can prepare an application for a vault privy by completing Page 1 of an HHE-200 Form.



Permitting

Holding Tanks

Holding tanks require an HHE-200 Form from the SE PROVING NO PRACTICAL ALTERNATIVE and a completed holding tank pumper agreement (HHE-233) with an owner and municipality statement and deed covenant.







HOLDING TANKS - EXPANSIONS

HOLDING TANKS – Section 7D

Holding tanks can not be used to satisfy the requirements of:

- **FIRST TIME HOLDING TANKS WITHOUT A LOCAL ORDINANCE FOR RESIDENTIAL USE**
- **First time system located within the shoreland zoned area of major water courses**
- **Seasonal Conversion Permits**
- **The facility served must not require a license as an eating establishment from the Department.**

HOLDING TANKS – Section 7D

- VISUAL / AUDIBLE ALARM
- MIN. 1000 GAL. or 7 Times the Design Flow..2 BR/180 GPD X 7 =1,260 GAL.
(1500 GAL TANK)
- Permitted as holding tank after July 1,1974, Discontinuance must meet first time criteria
- Nonresidential design flow must not exceed 100 GPD or 500 gallons per week greater flows has to be referred to Dept.

EXPANSIONS – Section 9

DEFINITION: THE ENLARGEMENT OR CHANGE IN USE OF A **STRUCTURE** USING AN EXISTING SUBSURFACE WASTEWATER DISPOSAL SYSTEM THAT BRINGS THE TOTAL STRUCTURE INTO A CLASSIFICATION THAT REQUIRES LARGER SUBSURFACE WASTEWATER DISPOSAL SYSTEM COMPONENTS

EXPANSIONS: Section 9A.3

- The initial expansion of a single family home after May 1, 1995 by one or more bedrooms or the introduction of mechanically pressurized water formerly served by hand pumped or hand carried water.
- Other structures- increase in design flow of 10% or more.

Expansions Outside the shoreland zone

Owner may elect not to install at the time of expansion provided the existing system is not malfunctioning.

- Provide a completed HHE-200 form
- Recorded with the registry of deeds, (does not need to be permitted)
- Person seeking to expand must notify abutters by certified mail with a copy of the notice of documentation. (HHE-200)
- Protection of future installation

Expansions inside the shoreland zone

9A.4a: MUST BE INSTALLED PRIOR TO THE EXPANSION

9C: Expansion design criteria inside the shoreland zone: Expanded disposal systems of one bedroom or less than 25 percent of the total design flow must meet replacement system design criteria as set forth in Section 8.

Expanded disposal systems of two bedrooms or more, or equal to or greater than 25 percent of the total design flow must meet first time system design criteria as set forth in Section 7.

SYSTEM TYPES

Engineered Systems

Section 10

Scope: This Chapter governs the design and installation of engineered systems with design flows of 2,000 gpd or more, or disposing of wastewater with a combined BOD5 and total suspended solids concentration greater than 1,400 mg/l.

Multi User System

Chapter 10F

10F Designed to serve three or more parcels with structures under individual and separate ownerships and when the disposal system is not owned by one individual.

10G General: Ownership of all parts of the multi-user system beyond the building sewer must be vested in a single and independent, legally established entity under Maine law.

Subsurface Wastewater Disposal Rules

SYSTEM TYPES

Cesspools, Clay Agricultural Drainage Tiles and Vee-Notched Plank trenches – still legal to operate as long as they are not **Malfunctioning.**

Primitive systems --consist of an alternate toilet such as a pit privy and a small graywater disposal area to accommodate a hand carried or hand pumped water supply

Limited systems– alternative toilet, septic tank & disposal field which handles only gray water originating from elevated storage tanks, cisterns of no more than 1000 gallons

A Combined System -- typically comprised of a septic tank and a disposal area sized to accommodate a pressurized water supply with full plumbing fixture loads.

Not a Primitive System



This is not a legal pump station





Float for High Water
Alarm Control Switch

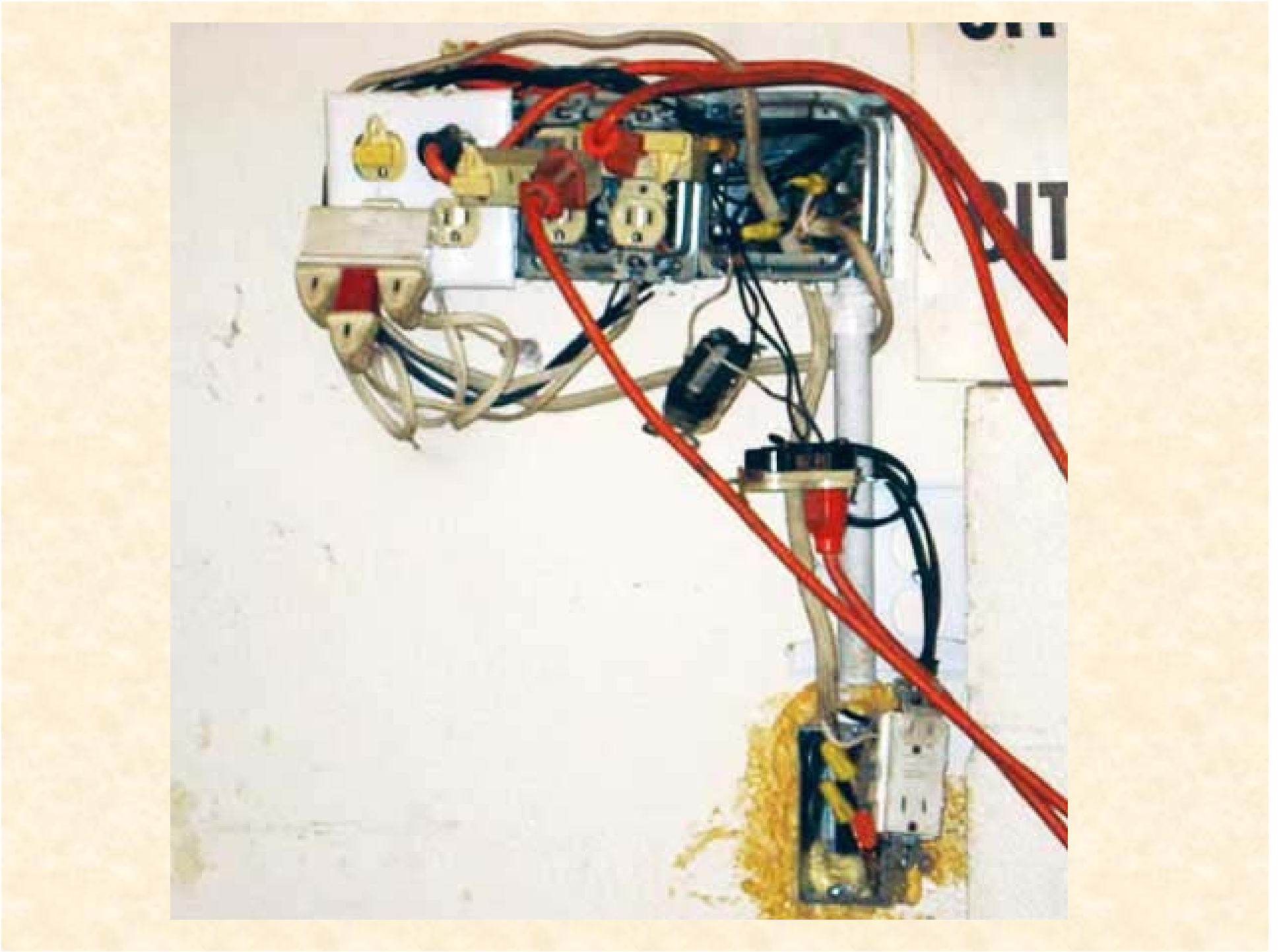
Float for Pump On/Off
Control Switch

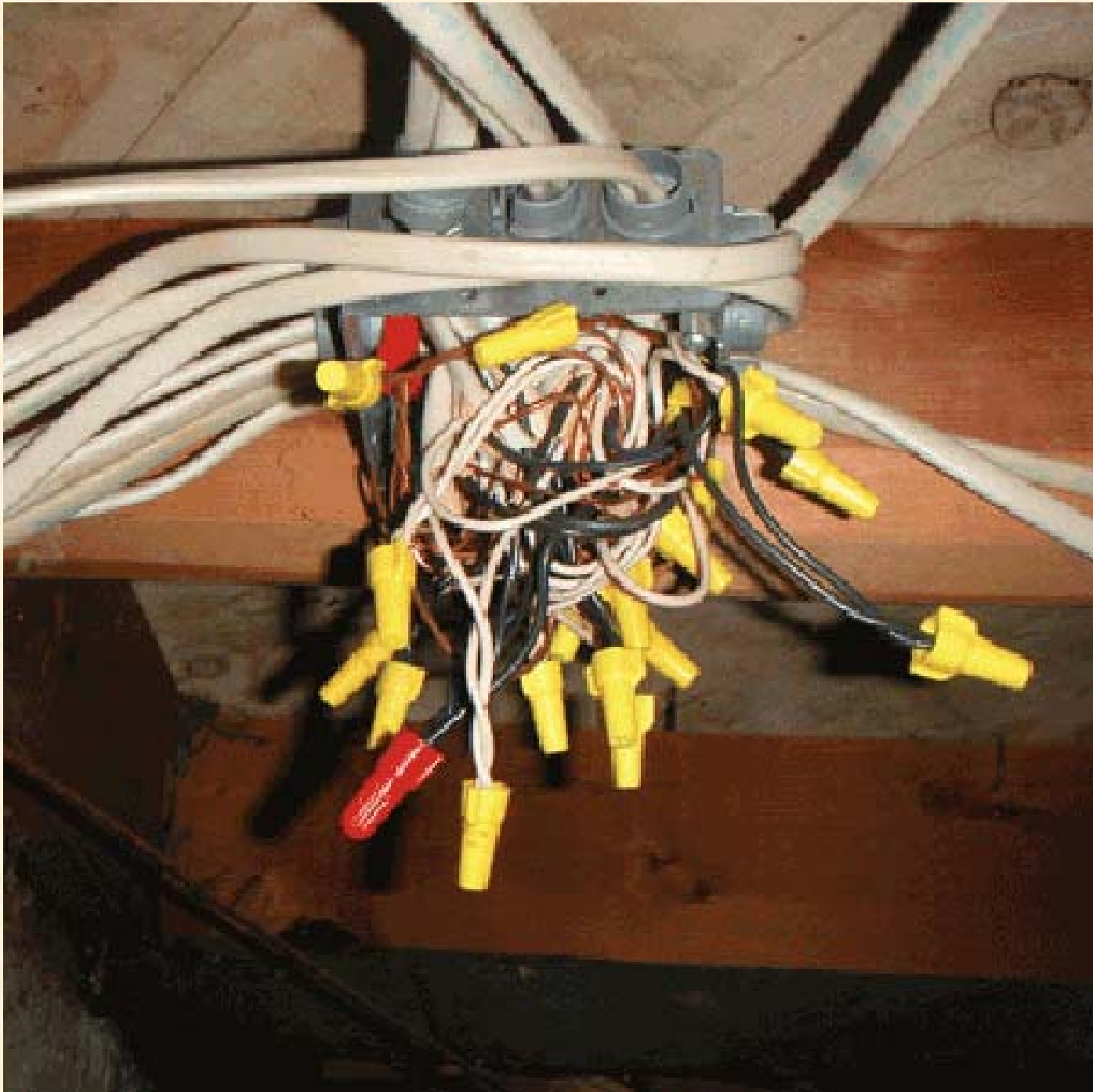
Section 6S.10

High-Water Alarm

The alarm and its switch must not be on the same electrical circuit as the pump and its switch.

Control panel breakers must be of less amp then main breaker box.







Inspections



**Maine Department of Health and Human Services
Bureau of Health, Division of Health Engineering
Wastewater and Plumbing Control Program**



10/01/2011 03:32:15PM

Section 11D.1 CONSTRUCTION

THE INSTALLER OF THE SYSTEM SHALL MAKE CERTAIN THAT THE SYSTEM AND ALL ITS COMPONENT PARTS ARE INSTALLED IN CONFORMANCE WITH THE REQUIREMENTS OF THIS CODE, THE SE PLAN AND ANY OTHER SPECIAL ENGINEERING REQUIREMENTS.

Section 11D.2

SOIL AND BACKFILL MATERIAL

THE INSTALLER OF THE SYSTEM SHALL MAKE CERTAIN THAT THE CONSTRUCTION AND INSTALLATION ARE PERFORMED WITHOUT AFFECTING THE CAPACITY OF THE SOIL AND BACKFILL MATERIAL TO ABSORB AND TREAT THE EFFLUENT.

Timing & Sequence

There are a minimum of two inspections required for subsurface wastewater disposal systems.

The first inspection shall be made after site preparation to confirm that:

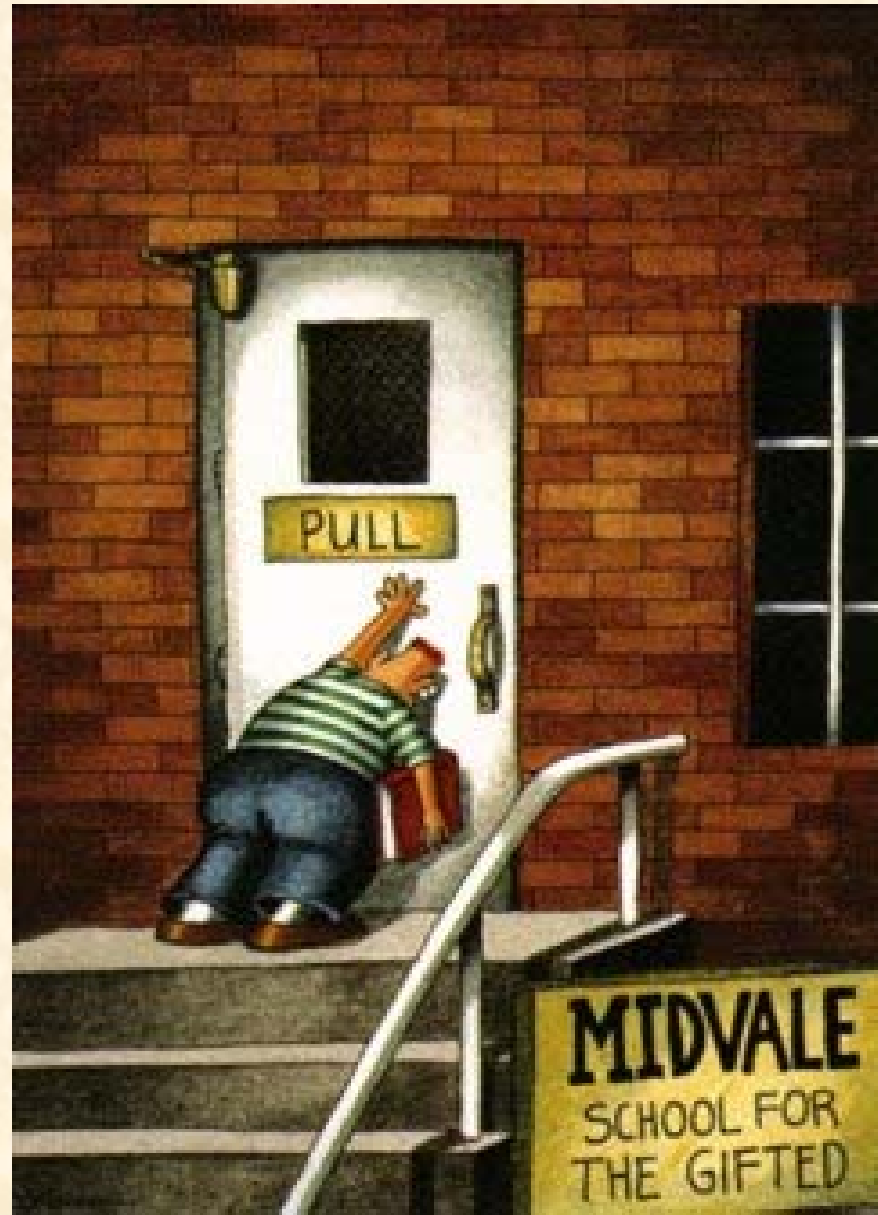
SOIL EROSION & SEDIMENT CONTROL

CLEARING OF THE SITE

SCARIFICATION

TRANSITION HORIZON

Pay attention to obvious signs



**IS THERE
STANDING
WATER ON TOP
OF THE
SCARIFICATION?**

**DO YOU NOTICE A
WELL CLOSER
THEN WHAT'S ON
THE PLAN?**



06/07/2011

Site Preparation

11B.1a Soil Erosion and Sediment Control

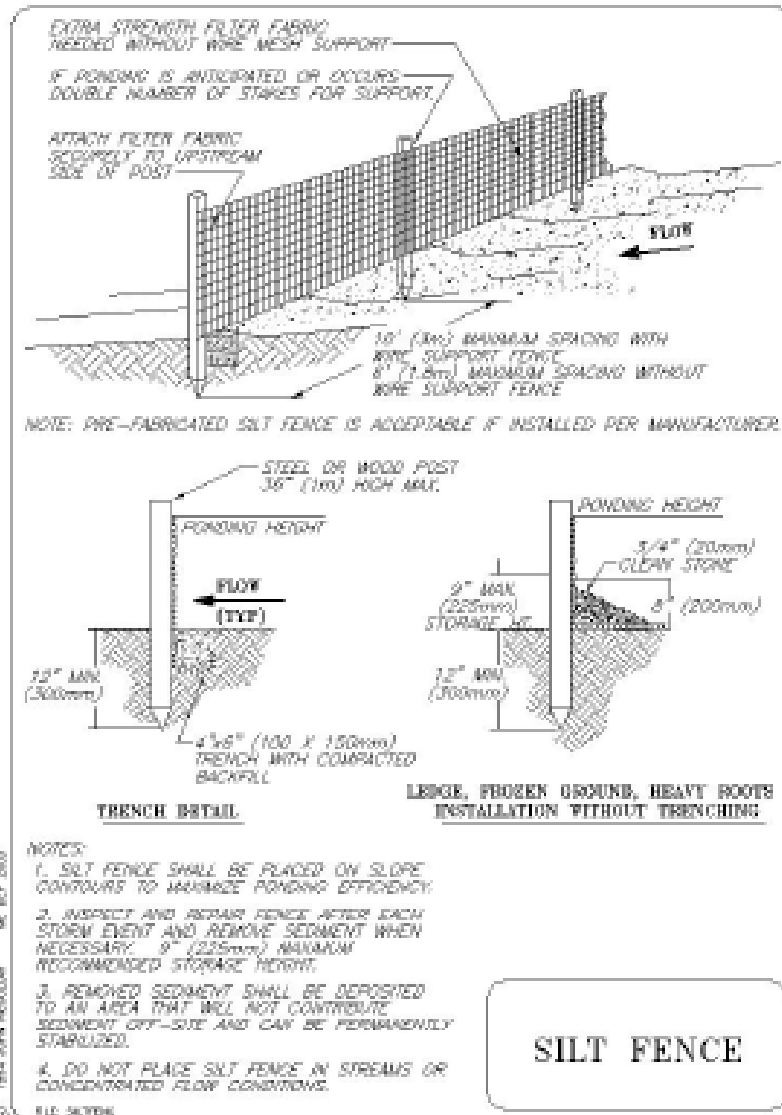
IN AREAS ADJACENT TO A WATER BODY OR WETLANDS, PREVENTATIVE EROSION AND SEDIMENT CONTROL MEASURES SHOULD BE EMPLOYED CONSISTENT WITH SECTION 11M.

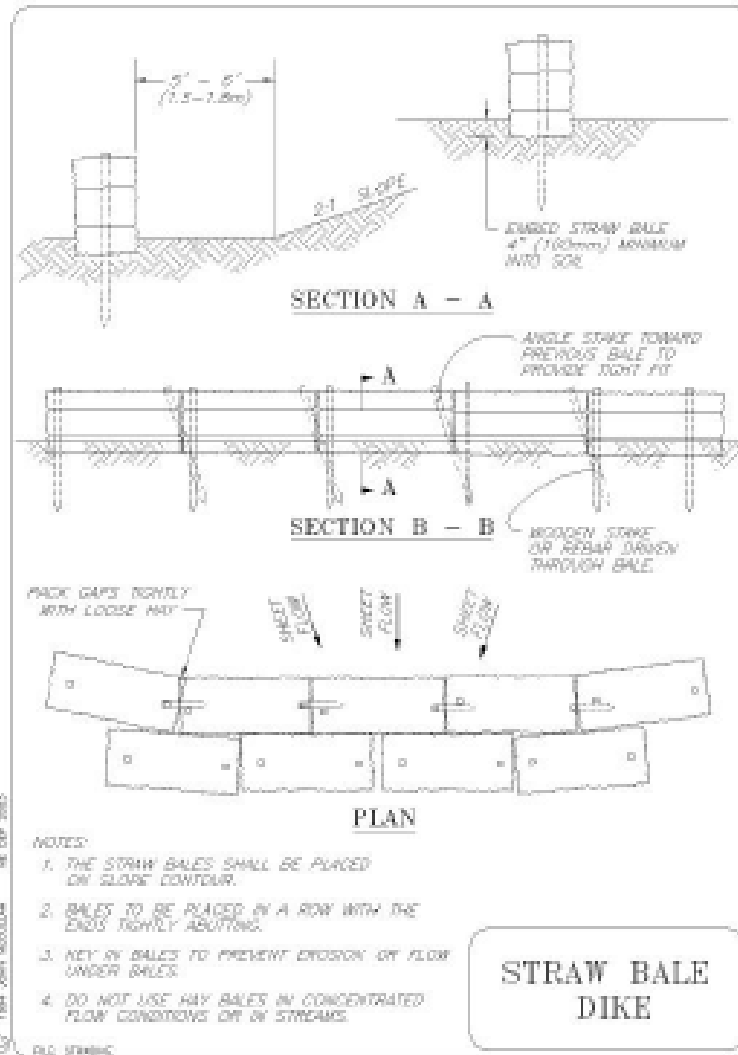
11M - WORK ADJACENT TO SPECIAL WETLANDS AND WATER BODIES

11M.3 - RUNOFF PREVENTION

1H – Wetlands and Waterbodies

- 1) SITES WITH SLOPES OF LESS THAN 33% REQUIRE A 25' UNDISTURBED SETBACK, MORE THAN 33% SLOPE WITHIN 25' REQUIRES A 75' SETBACK FROM ANY SOIL DISTURBANCE







Section 11B.1b - CLEARING THE SITE

- VEGETATION MUST BE CUT
AND REMOVED FROM THE
AREA WHERE BACKFILL IS
PLACED

DOES THIS INCLUDE
THE FILL EXTENSIONS?

SCARIFICATION

Section 11B.3 - SCARIFY THE SITE

THE AREA UNDER THE DISPOSAL FIELD AND BACKFILL EXTENSIONS MUST BE PLOWED OR DISKED TO PRODUCE A THOROUGHLY ROUGHENED SURFACE. PLOWING MUST BE DONE PARALLEL TO THE TOPOGRAPHIC CONTOUR IN SUCH A DIRECTION THAT EACH PLOW FURROW WILL BE THROWN UPSLOPE.

THE SOIL SHOULD BE BROKEN UP TO A DEPTH OF 6-8 INCHES.

ALTERNATIVELY, A ROTO-TILLER OR THE TEETH OF A BACKHOE MAY BE USED.

Section 11B.3

TRANSITIONAL HORIZON

ON SITES WHERE THE BACKFILL MATERIAL IS COARSER THAN THE ORIGINAL SOIL, A MINIMUM OF 4 INCHES OF BACKFILL MATERIALS MUST BE MIXED (BY PLOWING, DISCING OR ROTO-TILLING) INTO THE ORIGINAL SOIL TO FORM A TRANSITIONAL HORIZON BENEATH THE DISPOSAL AREA FOOTPRINT AND ALL SIDE AND DOWNHILL FILL EXTENSIONS.

11B.5 - FILL LARGE HOLES

- LEFT AS A RESULT OF STUMP AND STONE REMOVAL, MUST BE FILLED WITH BACKFILL MATERIAL THAT MEETS THE REQUIREMENTS OF SECTION 804 BACKFILL

4A.8 SURFACE WATER DIVERSION

SURFACE WATER MUST BE DIVERTED AWAY FROM THE DISPOSAL FIELD AND FILL EXTENSIONS

**BAD TRANSITIONAL
HORIZONS
&
SCARIFICATION**











ANOTHER SITE















BACKFILL

STANDARDS

11E.2 Backfill standards: The backfill material must be gravelly coarse sand which meets the following requirements:

Table 11A – Backfill Textural Gradation

Sieve Size	Percent Passing by Weight
3"	100
1.5"	95-100
0.75"	90-100
#4	75-100
#10	55-85
#20	30-65
#40	15-45
#60	10-25
#100	5-15
#200	2-8
Clay Fraction	0-2

Construction Related Rules

How to Check Sand Spec:



0 10 20 mm 30 40 50

	v. coarse sand 1.0-2.0mm	granules 2-4mm pebbles 4-64mm cobbles 64-256mm boulders > 256mm						
	coarse sand 1/2-1.0mm	very thickly bedded 1m thickly bedded 30-100cm medium bedded 10-30cm thinly bedded 3-10cm very thinly bedded 1-3cm thickly laminated 3-10mm thinly laminated 3mm						
	medium sand 1/4-1/2mm							
	fine sand 1/8-1/4mm	<table border="1"> <tr> <td></td> <td>well-rounded</td> <td></td> <td>sub-rounded</td> <td></td> <td>sub-angular</td> </tr> </table>		well-rounded		sub-rounded		sub-angular
	well-rounded		sub-rounded		sub-angular			
	v. fine sand 1/16-1/8mm							
	silt < 1/16mm							

FIELD CHECKLIST
 location, Formation name
 Composition
 Texture (shape, sorting, color)
 Structure (on and within bed)
 Form (geometry of the bed)
 Sequence (trends, cycles, repetitions)
 Fossils

Sand-gauge
 © 1984 by W.F. McCollough

Construction Related Rules

Table 1. Soil Separates

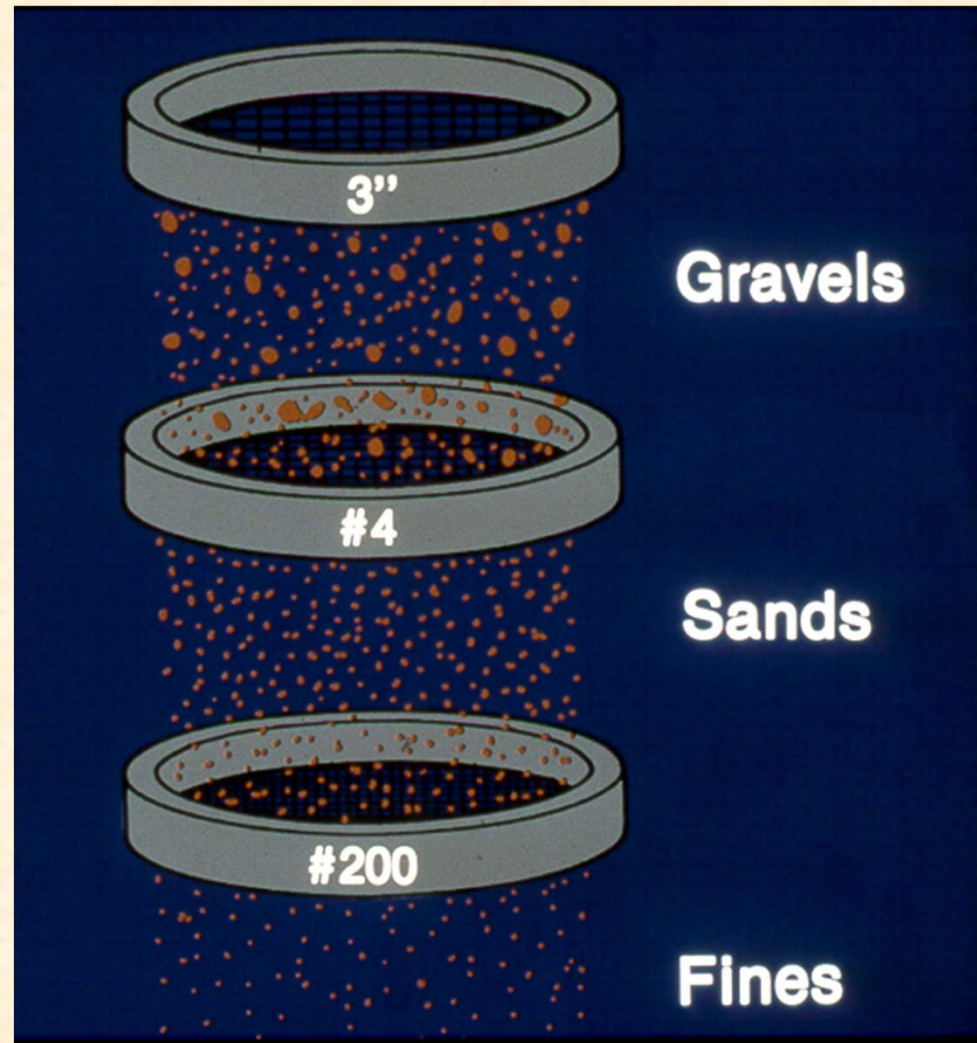
<u>Name of Separate</u>	<u>Diameter (range) mm.</u>
Very coarse sand	2.00 - 1.00
Coarse sand	1.00 - 0.50
Medium sand	0.50 - 0.25
Fine sand	0.25 - 0.10
Very fine sand	0.10 - 0.05
Silt	0.05 - 0.002
Clay	less than 0.002

Sieve Analyses



Division of Environmental Health
Subsurface Wastewater Program

Sieve Analyses



Sieve Designation - Large

Sieves larger than the #4 sieve are designated by the size of the openings in the sieve

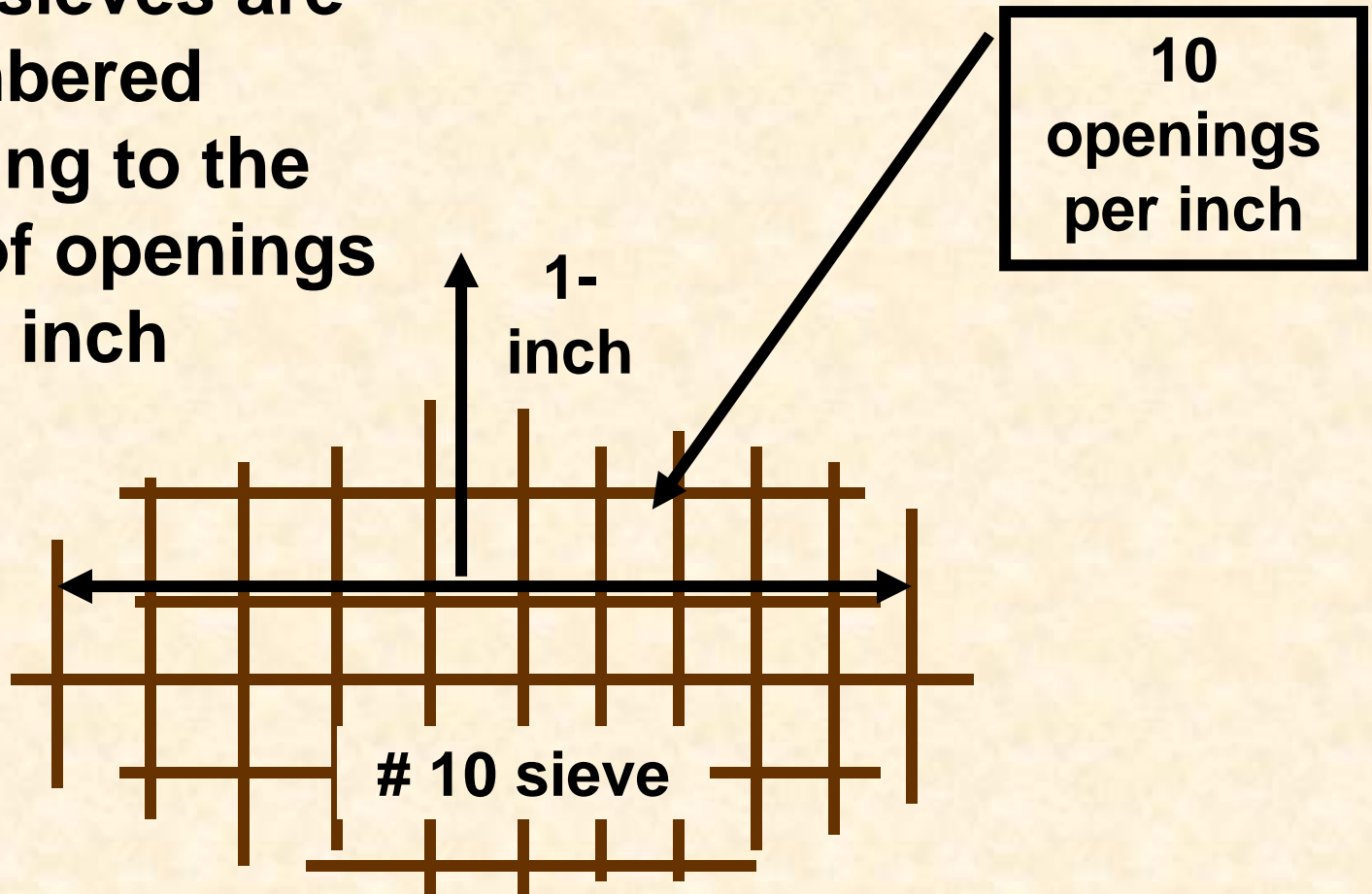


Review Activity 2

- Commonly used larger size sieves
 - 3 inch
 - 2 inch
 - 1-1/2 inch
 - 1 inch
 - 3/4 inch
 - 1/2 inch
 - 3/8 inch

Sieve Designation - Smaller

**Smaller sieves are
numbered
according to the
number of openings
per inch**



Construction Related Rules



Report of Gradation

ASTM C-117 & C-136

Test Name TUPPER PIT TESTING
 Client CONSTRUCTION CONSULTANTS
 Material Type IN DRAIN SAND
 Material Source

Project Number 04-0426
 Lab ID 1664G
 Date Received 5/6/2004
 Date Completed 5/7/2004
 Tested By CRAIG TURCOTTE

<u>STANDARD DESIGNATION (mm/μm)</u>	<u>SIEVE SIZE</u>	<u>AMOUNT PASSING (%)</u>	<u>SPECIFICATIONS (%)</u>
150 mm	6"	100	
100 mm	4"	100	
75 mm	3"	100	
50 mm	2"	100	
38.1 mm	1-1/2"	100	
25.0 mm	1"	100	
19.0 mm	3/4"	100	
12.5 mm	1/2"	100	
9.5 mm	3/8"	94	100
4.75 mm	No. 4	89	95 - 100
2.36 mm	No. 8	82	80 - 100
1.18 mm	No. 16	71	50 - 85
600 μm	No. 30	51	25 - 60
300 μm	No. 50	26	5 - 30
150 μm	No. 100	10	0 - 10
75 μm	No. 200	3.9	

Construction Related Rules

Washed concrete sand meeting the ASTM C-33 specification.

Sieve Designation		Percentage by Weight Passing Square Mesh Sieves
Metric	English	
9.5 mm	3/8 inch	100
4.75 mm	No. 4	95-100
2.36 mm	No. 8	80-100
1.18 mm	No. 16	50-85
600 μ m	No. 30	25-60
300 μ m	No. 50	10-30
150 μ m	No. 100	2-10
75 μ m	No. 200	0-5.0 maximum

COARSE SAND

MEDIUM SAND

**WET SITES on 9 INCH SOILS
and REPLACEMENT SYSTEMS**

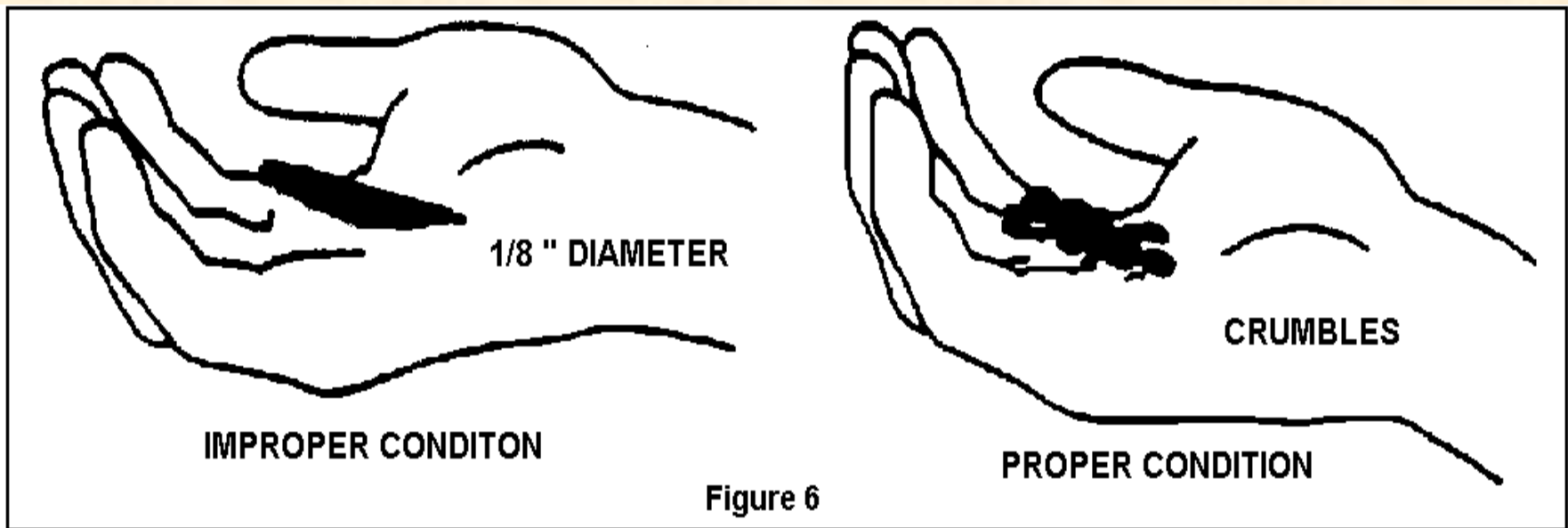
PLASTIC LIMIT

11A.1 General: On sites with fine soil textures, excavations that expose the bottom and sidewall area of the disposal field must not be carried out when the soil moisture content is above the plastic limit except when correcting a nuisance, there is no practical alternative, the plumbing inspector agrees and special construction techniques are used. The absolute plastic limit can be estimated by rolling the soil with the fingers. If the soil forms a wire or rod 1/8th of an inch in diameter and does not crumble when handled, the soil moisture content is too high to proceed with the excavation.

PLASTIC LIMIT

The soil must be dry and friable when site prep is started.

Smearing and compaction due to construction in a wet soil decrease the soil's ability to absorb wastewater. If a sample of the soil at the trench bottom depth forms a ribbon (e.g. 1/8-inch diameter) when rolled between the palms of the hands, the soil is too wet to excavate. If the soil crumbles into its natural structure, excavation may proceed. This pre-scarification examination is essential to help ensure proper operation of the system.



**Maine Department of Health & Human Services
Maine Center for Disease Control & Prevention
Division of Environmental Health – Subsurface Wastewater Unit**

Voluntary Certification Program

Subsurface Wastewater Disposal System Installer

In association with the Maine Department of Environmental Protection, Nonpoint Source Training and Resource Center the Division of Environmental Health is pleased to offer a voluntary certification program for individuals who install subsurface wastewater disposal systems. The Maine Subsurface Wastewater Disposal Rules, CMR 241, do not require certification as a condition of obtaining a permit for the purpose of installing a subsurface wastewater disposal system; however possession of this certification may allow the installer to sign an affidavit (HHE-238B) to cover the first system inspection noted in Section 111.5.1 of the Rules if the local plumbing inspector is in agreement.

Once issued the certification is good for five (5) years. The following criteria must be met for initial certification by the Department:

1. Attendance at one (1) Basic System Installation Training Session conducted by the Subsurface Wastewater Program; and
2. Submission of page one from two (2) HHE-200 Forms which were permitted and installed by the applicant and inspected and found in compliance with the Rules by the Local Plumbing Inspector. **PLEASE MAKE SURE THAT THE 1ST AND 2ND INSPECTIONS ARE DONE ON THESE HHE FORMS.**

The certification will be automatically renewed after five (5) years if the certified individual submits proof of attendance at subsurface waster related training session(s) providing a minimum of 6 contact hours within the past certification period. Individuals attending JETCC sponsored sessions will be credited automatically. It is the responsibility of the certified individual to insure that proof of attendance is provided to the Division of Environmental Health.

Mail to: **Maine Department of Health & Human Services
Division of Environmental Health
Attn: Wendy Austin
11 State House Station
Augusta, Maine 04333-0011**

Name: _____

Company: _____

Address: _____

Municipality: _____ State: _____ Zip: _____

Telephone: _____ Email: _____

Training Session Attended: _____ Date: _____



DIVISION OF ENVIRONMENTAL HEALTH
SUBSURFACE WASTEWATER PROGRAM

AFFIDAVIT OF SITE PREPARATION

This affidavit is to be completed by a certified system installer and submitted to the Local Plumbing Inspector to document compliance with Section 111.5.1 of the Maine Subsurface Wastewater Disposal Rules, 144 CMR 241. *Permission to utilize this document in lieu of a site preparation inspection by the Local Plumbing Inspector must be verified when the permit is issued.* This affidavit is *not* to be utilized in place of the system inspection described in Section 111.5.2 of the Rules.

INSTALLER NAME: _____
(Please Print)

CERTIFICATION NUMBER: _____

SSWD PERMIT NUMBER: _____

PERMIT ISSUE DATE: _____

PROPERTY OWNER NAME: _____

PROPERTY ADDRESS: _____

MUNICIPALITY: _____

By signing and submitting this document to the Local Plumbing Inspector, I certify that all construction activities noted in Section 111.5.1 including removal of all vegetation from the disposal field area and fill extensions as specified in Section 801.3; roughening of the ground surface as specified in Section 801.4; establishment of a transitional horizon as specified in Section 801.5; and placement of erosion control devices as specified in Section 801.2 have been completed in full compliance with the Maine Subsurface Wastewater Disposal Rules, 144 CMR 241 for the referenced SSWD permit.

INSTALLER SIGNATURE: _____

DATE SUBMITTED: _____

By signing and accepting this document from the Certified Installer, I acknowledge that a site preparation inspection was not conducted for the referenced SSWD permit.

LPI SIGNATURE: _____

ACCEPTANCE DATE: _____

**THIS FORM
ONLY TO
BE USED
AFTER THE
LPI'S
APPROVAL**

EXCAVATION



Section 11C.2

BOTTOM OF DISPOSAL FIELD

- THIS SERVES AS THE FINAL STAGE OF THE DISTRIBUTION NETWORK
- MUST BE INSTALLED AT THE ELEVATION SPECIFIED ON THE PERMIT.
- MUST MAINTAIN A LEVEL GRADE.
(2" WITHIN 100')

Section 11C.3

AVOID UNNECESSARY COMPACTION

- RUBBER TIRED VEHICLES SHOULD NOT BE DRIVEN OVER THE EXPOSED BOTTOM OF THE DISPOSAL FIELD
- SHOULD BE CARRIED OUT BY A BACKHOE OPERATING OUTSIDE THE PERIMETER OF THE DISPOSAL AREA

Which looks like.....



**And if not corrected could look
like.....**



Which would result in.....



11C.4 - REOPEN SMEARED OR COMPACTED BOTTOM OR SIDEWALL SURFACES

- THIS PORTION MUST BE SCARIFIED TO RE-OPEN SOIL PORES.
- ROTO-TILLING MAY BE NECESSARY TO REACH THE LIMIT OF COMPACTED SOIL DEPTH.



Section 11C.5 - WEATHER CONDITIONS

- **WORK SHOULD BE SCHEDULED SO THAT EXCAVATED AREAS ARE NOT EXPOSED TO RAINFALL OR WIND BLOWN SILT**
- **DEBRIS MUST BE REMOVED BEFORE BACKFILLING**
- **DISPOSAL FIELDS SHOULD NOT BE INSTALLED IN FROZEN GROUND OR WHEN THE AMBIENT AIR TEMP. IS BELOW FREEZING**

11I - INSPECTIONS

11I.1 REQUIRED:

**IT SHALL BE THE DUTY OF THE
PLUMBING INSPECTOR TO ENFORCE
THE PROVISIONS OF THIS CODE AND TO
MAKE SUCH INSPECTIONS AS MAY BE
REQUIRED BY THIS CODE**

Inspections

The second inspection shall be made after installation of the system components, including stone, pipes or proprietary devices, tanks, hay, filter fabric, and fill beneath and beside of the disposal area but before backfill is placed above the disposal system components.



Inspections

No part of a system may be backfilled until it has been inspected and approved. If any part is covered before being inspected and approved, it shall be uncovered at the discretion of the plumbing inspector and at the expense and risk of the owner.

If inspection discloses defective material, design, siting, or poor construction that does not conform to the requirements of the Rules, the nonconforming parts shall be removed, replaced, and reinspected.

The LPI must sign the inspection block on the HHE-200 Form or Plumbing Application, just below the permit label area, which comprises a Certificate of Approval.

The LPI should simultaneously sign the permittee's copy and the Town's copy. This will provide the Town and the permittee with a permanent record that the inspection took place.

Construction Related Rules

Chapter 6 – Septic Tanks, Dosing Tanks & Grease Interceptors

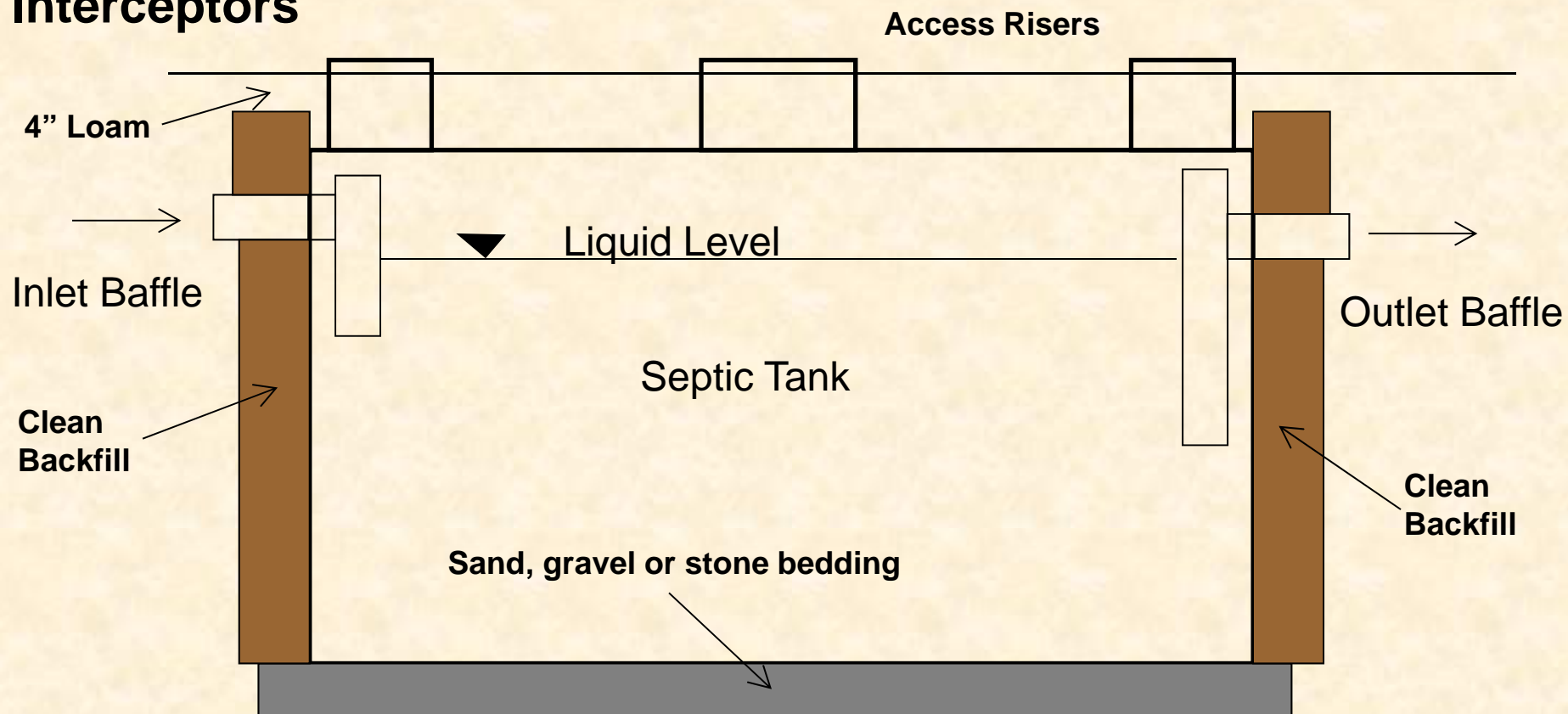


Illustration of Tank Installation

Plastic Chambers

- Chambers are used in the trench or cluster configuration. Permitted substitutions can be found on Page 60, Table 6H of the new rules.
- Just remember, you can substitute a High Capacity for a High Capacity of another manufacturer but not a High Capacity for a Standard, Quick 4 or Low Profile.

Concrete Chambers

- Each 4' by 8' chamber in trench configuration with 8' sidewalls has an infiltration area of 90sqft
- Infiltration area of 77 sqft for 4' sidewall.
- The 8' by 8' chamber has an infiltration area of 128 sqft in cluster configuration and 154 sqft in trench configuration.
- Any approved manufacturer of concrete chambers can substitute for another as long as the size is the same.

RISERS, RESIDENTIAL

- **IF BURIED, WATER TIGHT RISERS TO WITHIN 6" OF ORIGINAL GRADE ARE REQUIRED.**
- **RISER OPENING MUST BE 18" IN DIAMETER OVER THE TANK COVER**
- **IF THERE IS A PUMP STATION WITHIN THE TANK, THE RISER DIAMETER MUST BE 24"**
- **OUTLET BAFFLES THAT UTILIZE AN EFFLUENT FILTER MUST HAVE A RISER OF AT LEAST 18"**

RISERS, OTHER FACILITIES

**ALL RISERS MUST BE LOCATED AT
GRADE. GRADE MUST SLOPE AWAY
FROM THE OPENINGS**

Construction Related Rules

TABLE 11B
Maximum Percent passing by weight

		Nominal Stone Size	
		1 1/2"	3/4"
Sieve Size	2"	100	100
	1 1/2"	95 - 100	100
	3/4"	0 - 40	90 - 100
	1/2"	0 - 20	0 - 55
	3/8"	0 - 8	0 - 25
	#4	0 - 5	0 - 10
	#200	0 - 2	0 - 2

Construction Related Rules

Chapter 11 - Disposal Field Construction Techniques

Section 11F.2d Placement

Stone may be placed in the disposal field site using a backhoe, front-end loader, or dump truck, from the sides of the disposal field rather than by driving onto the prepared area of the disposal field.

In the case of large disposal fields, tracked equipment may be operated within the disposal field.



Inspections

Second Inspection

A common installation error is use of poor quality or poorly sized stone, which results in reduced void space and occasional sealing off by very fine particles.

Stone must be $\frac{3}{4}$ " OR $1 \frac{1}{2}$ " in size, clean, and evenly sized to provide sufficient void space.

Some installers wrongly interpret the size range as allowing a mix of sizes.



PIPING BETWEEN COMPONENTS

Section 6M - PIPING

- GRAVITY FLOW – NO LESS THEN 3”, PRIMITIVE 1.5”
- PUMP DISCHARGE - NO LESS THAN MANUFACTURER SPEC.
- JOINTS - MADE WATERTIGHT
- LAID IN A FIRM FOUNDATION AND PROTECTED FROM FREEZING

- BUILDING SEWER PITCH – PIPES UNDER 4” = 1/4 “ PER FOOT
- PIPES 4” & LARGER = 1/8” PER FOOT MAY BE AUTHORIZED BY THE LPI

- EFFLUENT LINE PITCH – 1/8” PER FOOT

The disposal field stone shall be covered with a layer of non-woven fabric or two (2) inches of compressed hay.

Non-woven fabric may be used, provided the edges of adjacent sheets of fabric overlap by a minimum of 6 inches; and the for the fabric shall be 4.0 ounces/square yard (per ASTM D-3776).



SECOND INSPECTION ELEVATIONS, BACKFILL, SLOPE, PITCH...

PRIOR TO COVERING THE SYSTEM

SYSTEM COMPONENTS

STONE, PIPES OR PROPRIETARY DEVICES

TANKS, HAY, FILTER FABRIC

**FILL BENEATH AND BESIDE THE DISPOSAL FIELD
INCLUDING FILL EXTENSIONS**

CURTAIN DRAINS, DIVERSION DITCHES, BERMS

SHOULDER, FILL EXTENSIONS

THIS IS NOT A CORRECT RETAINING WALL FOR FILL EXTENSIONS...



Permitting

Certificates of Approval

The LPI must sign the inspection block on the HHE-200 Form or Plumbing Application, just below the permit information area, which comprises a Certificate of Approval.

The LPI should simultaneously sign the permittee's copy and the Town's copy. This will provide the Town and the permittee with a permanent record that the inspection took place.

>> CAUTION: LPI APPROVAL REQUIRED <<	
Town/City _____	Permit # _____
Date Permit Issued ___/___/___	Fee: \$ _____ Double Fee Charged []
Local Plumbing Inspector Signature _____	L.P.I. # _____
	<input type="checkbox"/> Owner <input type="checkbox"/> Town <input type="checkbox"/> State
The Subsurface Wastewater Disposal System shall not be installed until a Permit is issued by the Local Plumbing Inspector. The Permit shall authorize the owner or installer to install the disposal system in accordance with this application and the Maine Subsurface Wastewater Disposal Rules.	
Municipal Tax Map # _____	Lot # _____
CAUTION: INSPECTION REQUIRED	
I have inspected the installation authorized above and found it to be in compliance with the Subsurface Wastewater Disposal Rules Application. _____ (1st) date approved	
Local Plumbing Inspector Signature _____	_____ (2nd) date approved

Section 11E
FILL MATERIAL PLACEMENT
ABOVE DISPOSAL FIELD

**IMMEDIATELY ABOVE THE FILTER
FABRIC OR HAY, FILL IS
REQUIRED AS SPECIFIED ON THE
PLANS, (TABLE 800.1)**

**A MINIMUM OF 8 INCHES INCLUDING
COVER MATERIAL**

COVER MATERIAL

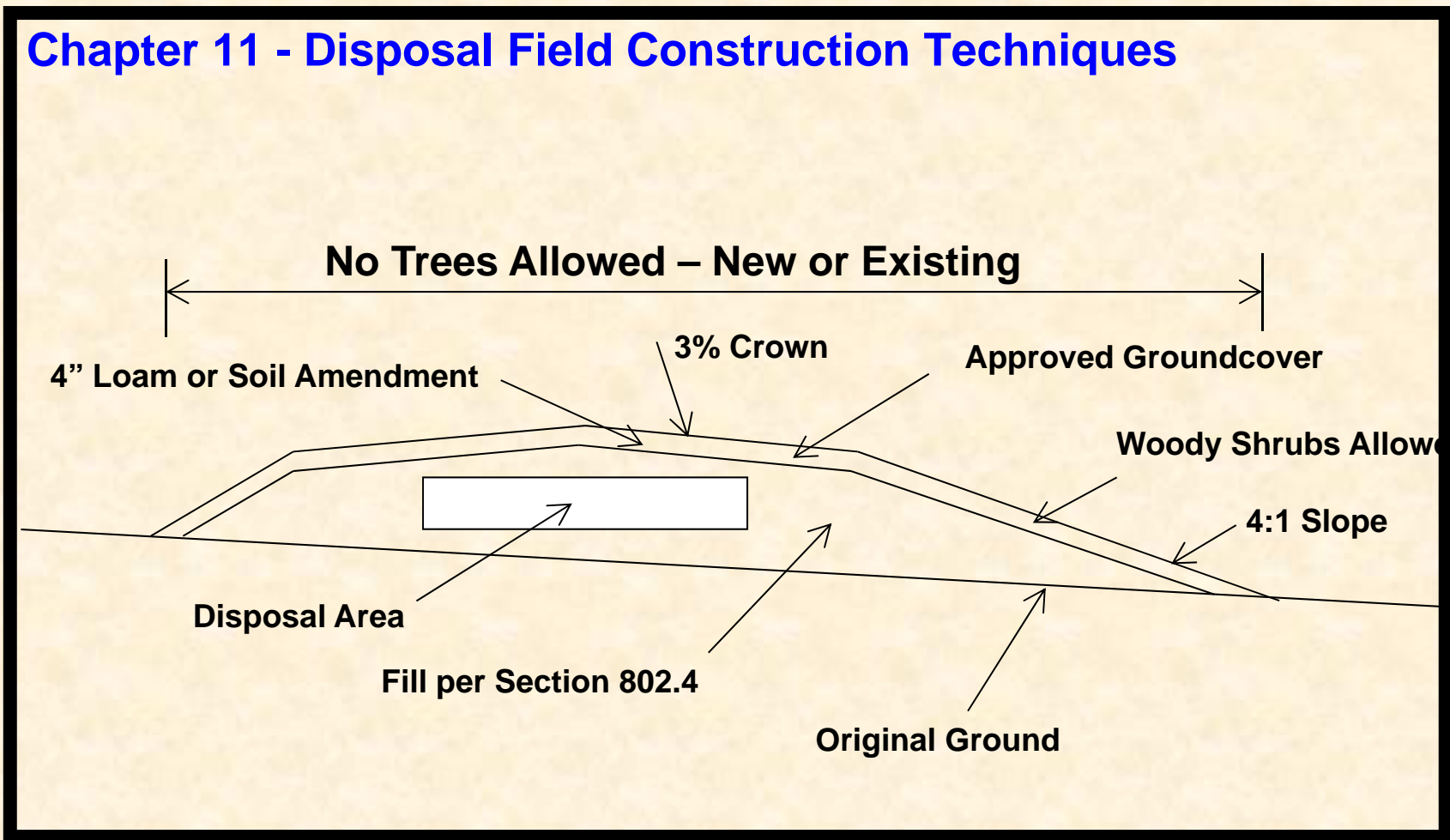
11E.2d - Cover Material

IMMEDIATELY ABOVE THE BACKFILL OR FILL MATERIAL, A MINIMUM OF 4" OF SOIL OR SOIL AMENDMENT MIX, SUITABLE FOR ESTABLISHMENT OF A GOOD VEGETATIVE COVER MUST BE PLACED OVER THE ENTIRE DISTURBED SOIL AREA, INCLUDING FILL EXTENSIONS

3% CROWN, 3' SHOULDER AND 4:1 FILL EXTENSIONS

Construction Related Rules

Chapter 11 - Disposal Field Construction Techniques



11G.7 - FINAL EROSION CONTROL

VEGETATIVE COVERS

**GRASS, CLOVER, TREFOIL, VETCH, WILD
FLOWERS, ETC..**

OTHER COVERS

BARK CHIPS, WOOD CHIPS

**WOODY SHRUBS AND TREES ARE UNACCEPTABLE
EXCEPT FOR WOODY SHRUBS ON FILL EXTENSIONS**



Division of Environmental Health
Subsurface Wastewater Program



ENFORCEMENT

Page 1-5, sec:111.8
Covering of work

No part of a system may be backfilled until it has been inspected and approved.

It **SHALL** be uncovered at the discretion of the LPI and the expense and risk of the homeowner

Resolving violations - complaints

- Investigate the situation

Is it a true complaint?

- Evaluate the problem

Talk to the owner, what can be done?

- Document.....Write a letter

- Initiate corrective actions

INVESTIGATIVE NOTES

- Inspection Observations
- Date, Time, Location
- Parties present
- Result of the inspection
- PHOTOS
- Inspection form on page 15 of the Enforcement manual

CORRECTIVE ACTIONS could be....



oral notice of violation

stop work order

written notice of violation

Violations of the rules during installation



Communication...

LPI & Contractor & Homeowner

If it doesn't get fixed, no
inspection signature

New installation? Not getting fixed?

- Call up the mortgage holder
- Explain that there will not be a final inspection signature
- No certificate of occupancy

Malfunctioning system violations

Written letter ordering repair / certified

2nd written letter / certified

Prepare and present all documentation to Municipal officials

Serve abatement order signed by officials to responsible party

In the event nothing is done, municipality may cause it to be fixed and recovering costs through court / taxes

The written violation should include...

- The violation
- Penalties
- Deadline date in which I shall be corrected

Right of entry:



- 1) For the purpose of enforcing the rules.
- 2) Proper credentials

If denied, the LPI may seek an administrative Inspection Warrant

Administering violations requires

Public Relations



Assertiveness



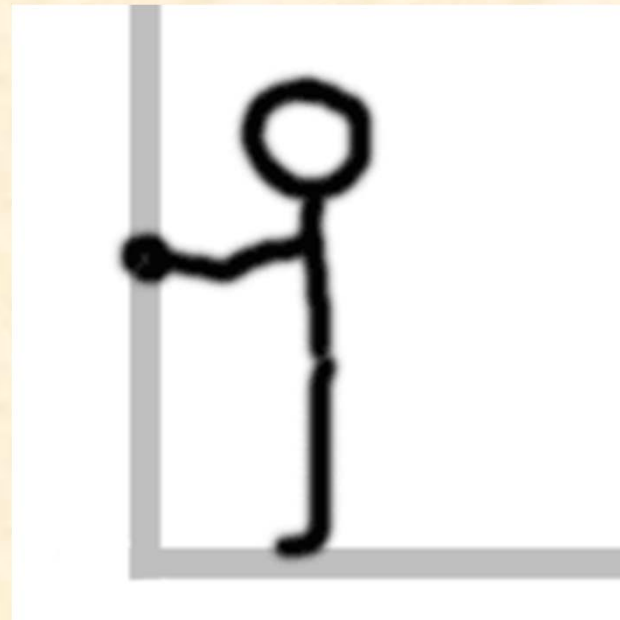
Determination



Patience



Understanding



**POOR
SITE
EVALUATION**

HHE-200 Form

Page one of the HHE-200 Form must be signed by both the owner/applicant and the Site Evaluator before a permit can be issued.

It is important to check that each block on the form is properly completed. If any information is lacking, the LPI should not issue the permit.

SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION		<small>Maine Dept Health & Human Services Division of Health Engineering, 10-5115 (207) 287-5622 Fax (207) 287-3105</small>
PROPERTY LOCATION City, Town, or Plantation: [REDACTED] Street or Road: [REDACTED] Subdivision, Lot #: [REDACTED]		>> CAUTION: PERMIT REQUIRED - ATTACH IN SPACE BELOW <<
OWNER/APPLICANT INFORMATION Name (last, first, MI): [REDACTED] <input type="checkbox"/> Owner <input type="checkbox"/> Applicant Mailing Address of Owner/Applicant: [REDACTED] Daytime Tel. #: [REDACTED]		The Subsurface Wastewater Disposal System shall not be installed until a Permit is attached HERE by the Local Plumbing Inspector. The Permit shall authorize the owner or installer to install the disposal system in accordance with this application and the Maine Subsurface Wastewater Disposal Rules.
OWNER OR APPLICANT STATEMENT <small>I state and acknowledge that the information submitted in concert to the best of my knowledge and understanding that any falsification is reason for the Department and/or Local Plumbing Inspector to deny a Permit.</small> Signature of Owner or Applicant: [REDACTED] Date: [REDACTED]		CAUTION: INSPECTION REQUIRED <small>I have inspected the installation authorized above and found it to be in conformance with the Subsurface Wastewater Disposal Rules Application.</small> Local Plumbing Inspector Signature: [REDACTED] (Date) date approved: [REDACTED]
PERMIT INFORMATION		
TYPE OF APPLICATION <input type="checkbox"/> 1. First Time System <input checked="" type="checkbox"/> 2. Replacement System Type replaced: <u>Bed</u> Year installed: <u>2018</u> <input type="checkbox"/> 3. Expansion 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	THIS APPLICATION REQUIRES <input type="checkbox"/> 1. No Rule Variance <input type="checkbox"/> 2. First Time System Variance <input type="checkbox"/> 3. Replacement System Variance <input type="checkbox"/> 4. Maintenance Lot Size Variance <input type="checkbox"/> 5. Seasonal Conversion Permit	DISPOSAL SYSTEM COMPONENTS <input checked="" type="checkbox"/> 1. Complete Non-engineered System <input type="checkbox"/> 2. Primitive System (graywater & all 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 <u>0.392</u> ACRES SHORELAND ZONING <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	DISPOSAL SYSTEM TO SERVE <input type="checkbox"/> 1. Single Family Dwelling Unit, No. of Bedrooms: <u>3</u> <input type="checkbox"/> 2. Multiple Family Dwelling, No. of Units: _____ <input type="checkbox"/> 3. Other: _____ (specify)	TYPE OF WATER SUPPLY <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
DESIGN DETAILS (SYSTEM LAYOUT SHOWN ON PAGE 3)		
TREATMENT TANK <input checked="" type="checkbox"/> 1. Concrete <input type="checkbox"/> a. Regular <input type="checkbox"/> b. Low Profile <input type="checkbox"/> 2. Plastic <input type="checkbox"/> 3. Other: _____ CAPACITY: <u>1,000</u> GAL	DISPOSAL FIELD TYPE & SIZE <input type="checkbox"/> 1. Stone Bed <input type="checkbox"/> 2. Stone Trench <input type="checkbox"/> 3. Percolation Device <input type="checkbox"/> a. cluster array <input type="checkbox"/> c. Linear <input type="checkbox"/> b. regular load <input type="checkbox"/> d. H-20 load <input type="checkbox"/> 4. Other: _____ SIZE: _____ sq. ft. <input type="checkbox"/> sq. in. ft.	GARBAGE DISPOSAL UNIT <input checked="" type="checkbox"/> 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
SOIL DATA & DESIGN CLASS PROFILE: <u>4.1C</u> CONDITION: <u>1.1</u> Date of Observation: <u>11/1</u> Depth: _____ of Most Limiting Soil Factor: _____	DISPOSAL FIELD SIZING <input type="checkbox"/> 1. Small--2.0 sq. ft./gpd <input type="checkbox"/> 2. Medium--2.6 sq. ft./gpd <input 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	DESIGN FLOW <u>270</u> gallons per day BASED ON: <input type="checkbox"/> 1. Table 501.1 (dwelling unit(s)) <input type="checkbox"/> 2. Table 501.2 (other facilities) SHOW CALCULATIONS for other facilities
SITE EVALUATOR STATEMENT I certify that on <u>Dec 18, 2018</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: [REDACTED] SE #: [REDACTED] Date: [REDACTED] Site Evaluator Name Printed: [REDACTED] Telephone Number: [REDACTED] E-mail Address: [REDACTED]		
Note: Changes to or deviations from the design should be confirmed with the Site Evaluator.		

HHE-200 Form

Page One

Signature of Owner or Applicant _____ Date _____		Local Plumbing Inspector Signature _____ (Print date approved) _____	
PERMIT INFORMATION			
TYPE OF APPLICATION <input type="checkbox"/> 1. First Time System <input checked="" type="checkbox"/> 2. Replacement System Type replaced: <u>Bed</u> Year installed: <u>Destroyed By Other</u> <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	THIS APPLICATION REQUIRES <input type="checkbox"/> 1. No Rule Variance <input type="checkbox"/> 2. First Time System Variance <input checked="" 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	DISPOSAL SYSTEM COMPONENTS <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 <u>0.392</u> () 50 FT. ACRES ()	DISPOSAL SYSTEM TO SERVE <input type="checkbox"/> 1. Single Family Dwelling Unit, No. of Bedrooms: <u>3</u> <input type="checkbox"/> 2. Multiple Family Dwelling, No. of Units: _____ <input type="checkbox"/> 3. Other: _____ (specify) Current Use <input type="checkbox"/> Seasonal <input type="checkbox"/> Year Round <input type="checkbox"/> Undeveloped	TYPE OF WATER SUPPLY <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			

HHE-200 Form

Page One

DESIGN DETAILS (SYSTEM LAYOUT SHOWN ON PAGE 3)			
TREATMENT TANK <input checked="" type="checkbox"/> 1. Concrete <input type="checkbox"/> a. Regular <input type="checkbox"/> b. Low Profile <input type="checkbox"/> 2. Plastic <input type="checkbox"/> 3. Other: _____ CAPACITY: <u>1,000</u> GAL.	DISPOSAL FIELD TYPE & SIZE <input type="checkbox"/> 1. Stone Bed <input type="checkbox"/> 2. Stone Trench <input type="checkbox"/> 3. Proprietary Device <input type="checkbox"/> a. cluster array <input type="checkbox"/> c. Linear <input type="checkbox"/> b. regular load <input type="checkbox"/> d. H-20 load <input type="checkbox"/> 4. Other: _____ SIZE: _____ <input type="checkbox"/> sq. ft. <input type="checkbox"/> lin. ft.	GARBAGE DISPOSAL UNIT <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	DESIGN FLOW <u>270</u> gallons per day BASED ON: <input type="checkbox"/> 1. Table 501.1 (dwelling unit(s)) <input type="checkbox"/> 2. Table 501.2 (other facilities) SHOW CALCULATIONS for other facilities <input type="checkbox"/> 3. Section 503.0 (meter readings) AT EACH WATER METER DATA
SOIL DATA & DESIGN CLASS PROFILE CONDITION DESIGN <u>4</u> <u>C</u> <u>1</u> <u>1</u> at Observation Hole # _____ Depth <u>—</u> " of Most Limiting Soil Factor	DISPOSAL FIELD SIZING <input type="checkbox"/> 1. Small--2.0 sq. ft. / gpd <input type="checkbox"/> 2. Medium--2.6 sq. ft. / gpd <input 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	EFFLUENT/EJECTOR PUMP <input checked="" type="checkbox"/> 1. Not Required <input type="checkbox"/> 2. May Be Required <input type="checkbox"/> 3. Required Specify only for engineered systems: DOSE: _____ gallons	LATITUDE AND LONGITUDE at center of disposal area Lat. _____ d _____ m _____ s Lon. _____ d _____ m _____ s If g.p.s, state margin of error: _____
SITE EVALUATOR STATEMENT			

HHE-200 Form

Page Two

The site plan should show all prominent features in the vicinity of the proposed system.

Test pit logs should be complete and accurate.

Department of Human Services
Division of Health Engineering
12077 287-5872 FAX: 12077 287-4172

SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION

Town, City, Plantation: _____ Street, Road, Subdivision: _____ Owner's Name: _____

SITE PLAN

Scale 1" = 50 Ft.
or as shown

*Corner Drainage Bed
Staked out & Flagged*

20' x 35' Drainage Basin

Trailer

Well

Blue Trailer

SITE LOCATION PLAN
(Map from Maine Atlas recommended)

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

Observation Hole: _____ Test Pit Boring
Depth of Organic Horizon Above Mineral Soil: _____

DEPTH BELOW MINERAL SOIL SURFACE (feet)	Texture	Consistency	Color	Mottling
0	Loom	Loose	Dark Brown	
10			Dark Brown	
20	Gravelly Sand	Knobby	Brown	
30				
40				
50				

Soil Classification: **4** Profile **C** Condition Slope: **3** %

Limiting Factor: **3** %

Ground Water Restrictive Layer
 Bedrock Pit Depth

Observation Hole: _____ Test Pit Boring
Depth of Organic Horizon Above Mineral Soil: _____

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

Soil Classification: _____ Profile _____ Condition Slope: _____ %

Limiting Factor: _____

Ground Water Restrictive Layer
 Bedrock Pit Depth

Site Evaluator Signature: _____ SE Date: _____

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HHE-200 Form

Page Two

SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION		Department of Human Services Division of Health Engineering (207) 287-5672 FAX (207) 287-4172	
Town, City, Plantation	Street, Road, Subdivision	Owner's Name	
[Redacted]	[Redacted]	[Redacted]	
SITE PLAN		Scale 1" = 50 Ft. or as shown	SITE LOCATION PLAN (Map from Maine Atlas recommended)
<p>Comers Drainage Bed Staked out & Flagged</p> <p>20 x 35' Drainage Basin</p> <p>NHWM of Brook</p> <p>Storage Building And E.R.P.</p> <p>Trailer</p> <p>Abutter's Well, Not Owner's</p> <p>Well</p> <p>Road</p> <p>Blue Trailer</p> <p>NHWM of Sandy Stream</p> <p>No Property Lines Shown</p>			

HHE-200 Form

Page Two

SOIL DESCRIPTION AND CLASSIFICATION (Location of Observation Holes Shown Above)				
Observation Hole _____		<input checked="" type="checkbox"/> Test Pit <input type="checkbox"/> Boring		
_____ " Depth of Organic Horizon Above Mineral Soil				
Texture	Consistency	Color	Mottling	
0	Loam	Loose	Dark Brown	
10		Dark		
20	Gravelly	Friable	Brown	
30	Sand			
40				
50				
Soil Classification		Slope	Limiting Factor	<input type="checkbox"/> Ground Water
4	C	3	●	<input type="checkbox"/> Restrictive Layer
Profile	Condition	%	"	<input type="checkbox"/> Bedrock
				<input type="checkbox"/> Pit Depth

SOIL DESCRIPTION AND CLASSIFICATION (Location of Observation Holes Shown Above)				
Observation Hole _____		<input type="checkbox"/> Test Pit <input type="checkbox"/> Boring		
_____ " Depth of Organic Horizon Above Mineral Soil				
Texture	Consistency	Color	Mottling	
0				
10				
20				
30				
40				
50				
Soil Classification		Slope	Limiting Factor	<input type="checkbox"/> Ground Water
Profile	Condition	%	"	<input type="checkbox"/> Restrictive Layer
				<input type="checkbox"/> Bedrock
				<input type="checkbox"/> Pit Depth

Site Evaluator Signature	SE	Date
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Page Two



HHE-200 Form

Page Three

Page three should contain all necessary construction data for installation of the disposal area.

SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION		Department of Human Services Division of Health Engineering (207) 287-5672 FAX (207) 287-4172
Town, City, Plantation	Street, Road, Subdivision	Owner's Name
SUBSURFACE WASTEWATER DISPOSAL PLAN		SCALE 1" = 20 FT.
FILL REQUIREMENTS Depth of Fill (Upslope) 9" Depth of Fill (Downslope) 18"		CONSTRUCTION ELEVATIONS Finished Grade Elevation 101'-3" Top of Distribution Pipe or Proprietary Device 100'-2" Bottom of Disposal Area 99'-3"
DISPOSAL AREA CROSS SECTION		ELEVATION REFERENCE POINT Location & Description Hor. Spike 4' High - Bur. Along Downside Reference Elevation 164.0
2" Hay or Fill Stone Drainage Bed Construction 4" Leamy Material 6" Fill 2" Hay 12" Stone (Between 3/4" to 2 1/2")		SCALE: VERTICAL: 1" = 5' HORIZONTAL: 1" = 10' Original Ground 3 lines 3" P.V.C. or Larger & Equal Installed in Closed System
Site Evaluator Signature	SE	Date

HHE-200 Form

Page Three

SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION		Department of Human Services Division of Health Engineering (207) 287-5672 FAX (207) 287-4172
Town, City, Plantation	Street, Road, Subdivision	Owner's Name
SUBSURFACE WASTEWATER DISPOSAL PLAN		SCALE 1" = 20 FT.
<ul style="list-style-type: none">* No Swing Ties Shown* E.R.P. Not Shown* Cross Section on Wrong Axis		
<p>New Septic Tank</p> <p>NHWM of Brook</p> <p>Trailer</p> <p>Cross-Section A</p> <p>35'</p> <p>6'-3"</p> <p>1'-6"</p> <p>3 lines 3" P.V.C. or Larger & Equal Installed in Closed System</p> <p>6'-3"</p> <p>Edge of Paved Road</p>		

HHE-200 Form

Page Three

FILL REQUIREMENTS		CONSTRUCTION ELEVATIONS		ELEVATION REFERENCE POINT	
Depth of Fill (Upslope)	9"	Finished Grade Elevation	101'-3"	Location & Description	Hor Sp, Ke
Depth of Fill (Downslope)	18"	Top of Distribution Pipe or Proprietary Device	100'-2"	Reference Elevation	4' High - Bu. King Doorway
		Bottom of Disposal Area	99'-3"		164.0

*** No Transition Zone Shown**
*** Stone Size is Not Specific**
*** No Fill Specs Provided**

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

DISPOSAL AREA CROSS SECTION

Site Evaluator Signature: _____

SE: _____

Date: _____

MALFUNCTION COMPLAINTS

Maine Subsurface Wastewater Disposal Rules

Definition of Malfunction

Malfunctioning system: A system that is not operating or is not functioning properly based on the following indicators:

- Ponding or outbreak of wastewater or septic tank effluent onto the surface of the ground;
- Seepage of wastewater or septic tank effluent into parts of buildings below ground;
- Back-up of wastewater into the building being served that is not caused by a physical blockage of the internal plumbing;
- Or contamination of nearby water wells or water bodies/courses.

Anatomy of a Malfunction Investigation

Breakout of Effluent.



Anatomy of a Malfunction Investigation

Breakout of Effluent and Abutter's Boat



It is the municipality's responsibility to remedy a malfunctioning subsurface wastewater disposal system per Title 30-A §3428

1. Abatement procedure. Upon complaint of any person resulting in documentation of a malfunctioning waste water disposal unit or on their own information, the municipal officers shall serve an order to remedy a malfunctioning waste water disposal unit upon the owner of any premises within that municipality that has such a malfunctioning unit.

2. Content of order. The order must be addressed to the owner of the premises and must contain:

- A. The date
- B. The fact of the malfunctioning waste water disposal unit;
- C. A notice to **remedy the nuisance within 10 days** of service of the order; and
- D. The signatures of the municipal officers.

The municipal officers may allow the owner of the premises to request an extension of the 10-day period for no longer than an **additional 20 days** and may explain how to request an extension in the order. The municipal officers or their agents may approve an extension if it is reasonably necessary for and likely to result in remediation of the nuisance.

It is the municipality's responsibility to remedy a malfunctioning subsurface wastewater disposal system per Title 30-A §3428

3. Service and return of service. One of the municipal officers or a law enforcement officer shall serve the order personally upon the owner, tenant or occupant in possession. The server shall make and file a return of service indicating the method used and the person served.

4. Abatement. If the nuisance is not abated within the 10-day period or such period up to but not exceeding the additional 20 days as allowed by the municipal officers under subsection 2, the municipal officers or their agents may enter the premises and have the malfunction adequately remedied. To recover any actual and direct expenses, including reasonable attorney's fees if the municipality is the prevailing party, incurred by the municipality in the abatement of such nuisances, the municipality shall:

A. File a civil action against the owner. The costs, including reasonable attorney fees, to create and prosecute an action to collect expenses following such a civil complaint, shall also be recovered from the owners; or

B. Assess a special tax against the land on which the waste water disposal unit is located for the amount of the expenses. This amount shall be included in the next annual warrant to the tax collector of the municipality for collection in the same manner as other state, county and municipal taxes are collected. Interest as determined by the municipality pursuant to Title 36, section 505, in the year in which the special tax is assessed, shall accrue on all unpaid balances of any special tax beginning on the 60th day after the day of commitment of the special tax to the collector. The interest shall be added to and become part of the tax.

The Department's Role in the remedy of a malfunctioning subsurface wastewater disposal system per Title 30-A §4212

1. Administration of rules. The department is responsible for ensuring the proper administration of the subsurface wastewater disposal rules and permitting processes by municipalities. **The department shall assist municipalities in complying with this subchapter and with section 3428.**

2. Review. The department shall review the administration of subsurface wastewater disposal rules and laws in each municipality for compliance with this subchapter and with section 3428. This review must be made on a regular basis and may be made in response to a written complaint from any person as necessary. The department shall inspect the municipality's records and discuss the administration of the program with the local plumbing inspector. The local plumbing inspector shall be available during the department's review and shall cooperate in providing all necessary information. The department shall report the results of its review in writing to the municipality and, when applicable, to the complainant. The written notice must set forth the department's findings of whether the municipality is in compliance with this subchapter and section 3428.

The Department's Role in the remedy of a malfunctioning subsurface wastewater disposal system per Title 30-A §4212

3. **Violation; penalty.** If after review the department finds any violation of this subchapter or section 3428, it shall **notify the municipality that it has 30 days in which to take enforcement action** and shall specify what action must be taken in order to achieve compliance.

The municipality shall file a plan acceptable to the department setting forth how it will attain compliance.

The department shall notify the municipality that it will **review the municipality for compliance within 60 days of accepting the plan** and shall conduct that review.

Any municipality which fails to file an acceptable plan with the department or which **remains in violation at the expiration of the 60-day period is subject to a civil penalty of at least \$500.**

The department shall enforce this section in any court of competent jurisdiction.

Every 30-day period that a municipality remains in violation after review and notification constitutes a separate offense.

ISSUES / COMPLAINTS

Malfunctioning system: A system that is not operating or is not functioning properly, based on the following indicators: ponding or outbreak of wastewater or septic tank effluent onto the surface of the ground; seepage of wastewater or septic tank effluent into parts of buildings below ground; back-up of wastewater into the building being served that is not caused by a physical blockage of the internal plumbing; or contamination of nearby water wells or waterbodies/courses.

Malfunction



Possible Malfunction



WHEN DOING INSPECTIONS

BE PREPARED TO SEE
ANYTHING





Campgrounds















**Why can't I hook up to my
septic?**











TOMHEGAN
\$30 MILLION HOME

**DO NOT
DRIVE ON
RUNWAY

GO AROUND**

**HORNE
CONSTRUCTION**

**AUTHORIZED
PERSONNEL ONLY**
PRIVATE PROPERTY
NO TRESPASSING
ABSOLUTELY NO VISITORS

**HORNE
CONSTRUCTION**

FOR CONSTRUCTION EMPLOYMENT INFORMATION
CALL (207) 534-7771 - DO NOT APPLY IN PERSON

**HORNE
CONSTRUCTION**













HEATING RETURN →
HEATING RETURN →
← HEATING SUPPLY
← HEATING SUPPLY

HEATING RETURN →
← HEATING SUPPLY
← SNOWMELT RETURN
← SNOWMELT SUPPLY

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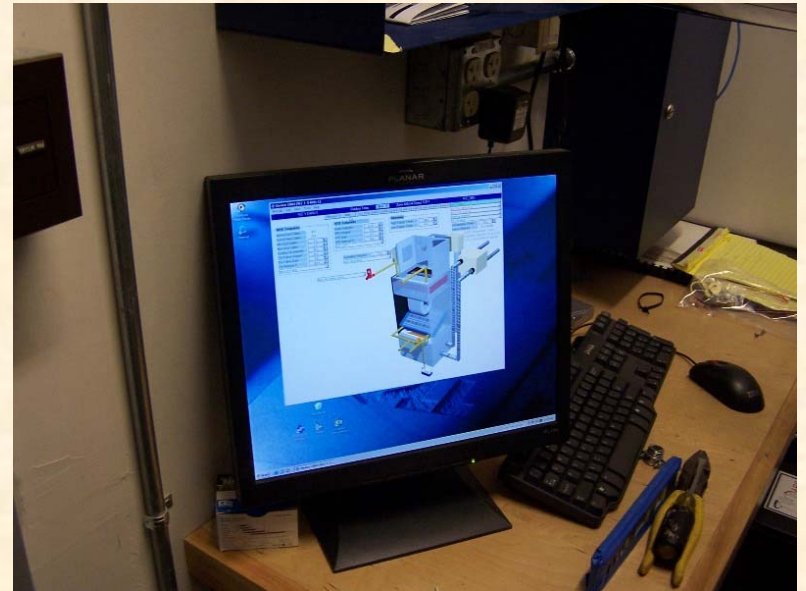
CAUTION

Control panel with multiple gauges and valves.

Yellow storage bin.

















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Vacant, State Site Evaluator

<http://www.maine.gov/dhhs/mecdc/environmental-health/plumb/index.htm>