SUBSURFACE WASTEWATER DISPOSAL SYSTEM PERMIT APPLICATION

Maine CDC Drinking Water Program
Attn: SSWW Unit
286 Water Street, 3rd floor
Augusta, ME 04333

Property Address

Address (# & Street): 21 BETTS RD.
City/Town/ Plantation: ORRINGTON
Municipal Tax Map #: 2 Lot #: 93

Property Owner or Applicant Information

Owner Name (Last, First): WHITE, KEN
Applicant Name:

Owner or Applicant Mailing Address

Street: 783 NINE ROAD
City: ORRINGTON State: ME Zip:
Phone: 570-5051
Email: fortunatedad@gmail.com

Owner/ Applicant Statement

I certify 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(s) to deny a permit.

X _____ _____
Property Owner/ Applicant Signature Date

Installer Information

Name: _____ Phone: _____
Email: _____

Issuing Municipality or Territory

Permit #: _____ Date Issued: _____

X _____ _____
Local Plumbing Inspector Signature LPI #

A subsurface wastewater disposal system may not be installed until a permit is issued by the Local Plumbing Inspector. The permit authorizes the installation of the disposal system in accordance with 10-144-CMR Chapter 241.

CAUTION: INSPECTION REQUIRED

"I have inspected the installation authorized above and found it to be in compliance with the Subsurface Wastewater Disposal Rules Application."

X _____ _____
Local Plumbing Inspector Signature Date

X _____ _____
Local Plumbing Inspector Signature Date

Fee Calculations (*For Town/ LPI Use Only*)

☐ Revision
☐ Doubled Fee
☐ Variance
☐ Seas. Conv.

Total Fee	$
Town Share	$
State 25%	$
DEP WQS	$

The Town retains all doubled fees
The State receives 25% for First-time variances requiring State approval *only*
Seas. Conv. must be a stand-alone permit

Type of Application

☐ 1. First Time System
☒ 2. Replacement System
Type Replaced: SIDNE BED
Year Installed: UNK
☐ 3. Expansion
☐ <25% (Minor) Expansion
☐ ≥25% (Major) Expansion
☐ 4. Experimental System
☐ 5. Seasonal Conversion Permit

Variance Requirements

☐ 1. No Rule Variance
☐ 2. First Time System
LPI Only ☐
State Required ☐
☒ 3. Replacement System
LPI Only ☒
State Required ☐
☐ 4. Minimum Lot Size
☐ 5. Seasonal Conversion

Treatment Tank(s)

☒ 1. Concrete ☒ Regular ☐ Low Profile ☐ H-20
☐ 2. Plastic
☐ 3. External Grease Interceptor Capacity: gals
☐ 4. Other Specify:
Tank Capacity: 1000 gals Total # of New Tanks: 1

Notes: Existing tank - If system is replaced check tank for water tightness & repair or replace if needed
☑ Riser(s) required in accordance with 10-144-CMR Chapter 241 (7)(F)(2)(a)

Disposal System Components

☒ 1. Complete Non-Engineered System (Field /Tank /Pump)
Specify Total Number of New Tanks: 1
☐ 2. Primitive/ Limited System (Greywater + Alternative Toilet)
Specify Type:
☐ 3. Alternative Toilet
Specify Type:
☐ 4. Non-Engineered Treatment Tank(s) (750 gals or over*)
Specify Total # of New Tanks:
☐ 5. Holding Tank
☐ 6. Non-Engineered Disposal Field
☐ 7. Complete Engineered System (Field/ 2 Tanks/ Pump)
New: # Disposal Fields: # Tanks: # Pumps:
☐ 8. Engineered Tank(s) Only Specify # of New Tanks:
☐ 9. Engineered Field(s) Only
☐ 10. Miscellaneous Components Specify:
☐ 11. Pre-Treatment Tank (*Tank fees apply*)**
☐ 12. Pre-Treatment Component (*Misc. Component fees apply*)**
*Includes Grease Interceptors, Pump Tanks, etc. **Details on Pg. 2

Site Evaluator Statement

I certify that I have 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 Name (Print): KENNETH E. LIBBEY Jr. Phone: (207)299-6665 SE #: 271
Signature: Kenneth E. Libbey Jr. Date: 4/12/26 Email: ken.libbey61@gmail.com

SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION

Maine DHHS/CDC – Division of Environmental and Community Health
(207) 287-2070 | Fax (207) 287-4172 | subsurface.wastewater@maine.gov

Owner: K. WHITE
Address: DIXMONTON

Property Size
± 2 ☐ sq. ft. ☑ acres

Shoreland Zoning
☐ Yes
☑ No
Current Use
☐ Seasonal ☐ Undeveloped
☑ Year-Round ☐ Commercial

Latitude & Longitude (D.M.S.)
Latitude 44° 42' 14"
Longitude 68° 47' 26"
GPS margin of error

Type of Water Supply
☑ 1. Drilled Well ☐ 2. Dug/ Point Well
☐ 3. Private ☐ 4. Public ☐ 5. Other
Specify:

Effluent/ Ejector Pump
Required: ☐ Yes ☐ No ☑ Maybe
Dose (Engineered Systems): gals

Garbage Disposal Unit
☐ Yes ☑ No ☐ Maybe *If Yes...*
☐ Multi-compartment Tank
☐ Tanks In Series # of Tanks
☐ Increase Tank Capacity
☐ Filter on Tank Outlet

Pre-/ Advanced Treatment Systems
Make
Model
Notes:
☐ Maintenance contract (HHE-300A) required

Make
Model
Notes:
☐ Maintenance contract (HHE-300A) required

Disposal System to Serve
☑ 1. Single Family Dwelling Unit
# of bedrooms: 3
☐ 2. Multiple Family Dwelling Units
# of bedrooms:
☐ 3. Accessory Dwelling Unit(s)
# of bedrooms:
☐ 4. Other
Specify:

Disposal Field Type & Size
☐ 1. Stone Bed
☐ 2. Stone Trench
☑ 3. Proprietary Device
☐ Cluster Array ☑ Linear
☑ Regular ☐ Load
☐ 4. Other
Specify: Infiltrators
Size 891 ☑ sq. ft. ☐ acres

Design Flow
270 Gallons per Day
Based on (select one)
☑ 1. Table 5A (Dwelling Units)
☐ 2. Table 5C (Other Facilities)
Show Calculations for "Other Facilities"
3BR x 90 = 270
☐ 3. Section 5(G) – Meter Readings
ATTACH WATER METER DATA

Soil Data & Design Class
3 / C
Profile Condition
At Observation Hole # TP-1
Limiting Factor Depth
Limiting Factor Elevation 16"
Highest Elevation within Disposal Field

Additional Notes

Site Evaluator Signature or Initials	SE #	Date
K. L. Libby	271	4/12/26

SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION

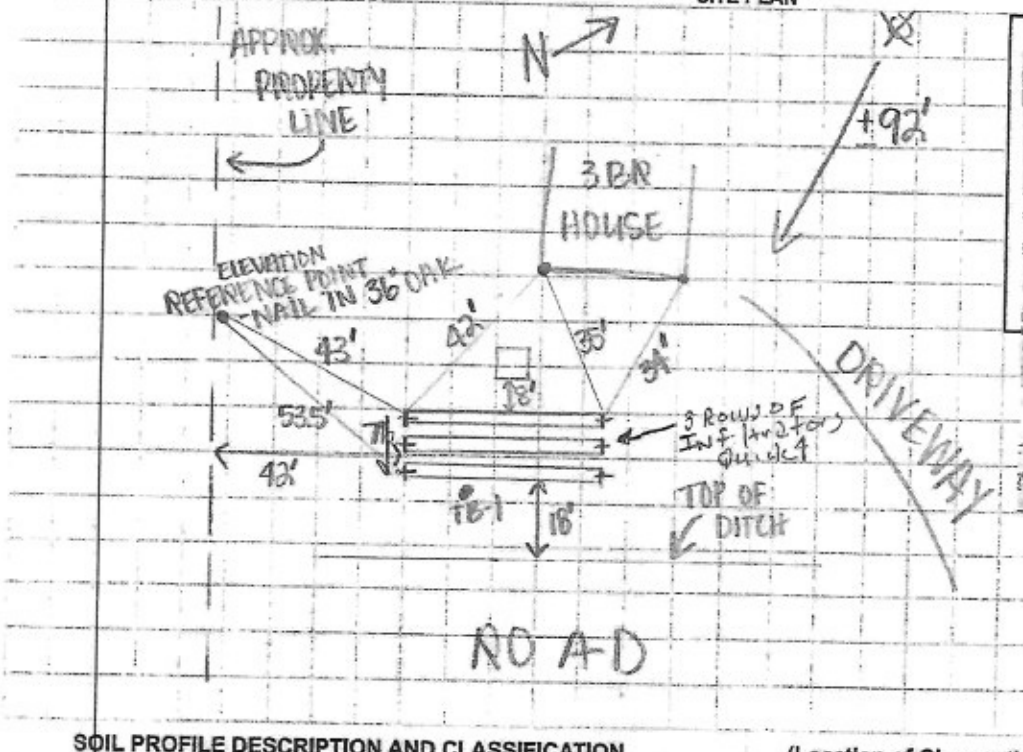
Maine DHHS/CDC – Division of Environmental and Community Health
(207) 287-2070 | Fax (207) 287-4172 | subsurface.wastewater@maine.gov

Owner: K. WHITE

Address: ORRINGTON

Scale: 1" = 40 ft.

SITE PLAN



SITE LOCATION



SOIL PROFILE DESCRIPTION AND CLASSIFICATION

Observation Hole # TB-1 | Test Pit ☐ | Boring ☒

Organic Horizon Thickness: 0 "

Ground Surface Elevation: "

Depth to Exploration or Refusal: 28 "

Textures	Consistence	Color	Redox Features
LOAM (0–6)			
SANDY ROCKY LOAM (6–)	FRIABLE (6–21)	BROWN (6–21)	(16–)
	FIRM (21–)	GRAY (21–)	COMMON + DISTINCT (16–)

Soil Classification: Profile	Soil Classification: Condition	Slope	Limiting Factor	
B	C	7 %	16 "	☒ Ground water; ☐ Restrictive Layer; ☐ Bedrock; ☐ Pit Depth

(Location of Observation Holes Shown Above)

Observation Hole # | Test Pit ☐ | Boring ☐

Organic Horizon Thickness: "

Ground Surface Elevation: "

Depth to Exploration or Refusal: "

Textures	Consistence	Color	Redox Features

Soil Classification: Profile	Soil Classification: Condition	Slope	Limiting Factor	
		%	"	☐ Ground water; ☐ Restrictive Layer; ☐ Bedrock; ☐ Pit Depth

Site Evaluator Signature or Initials	SE #	Date
Keezer, Jeffrey M	271	4/12/26

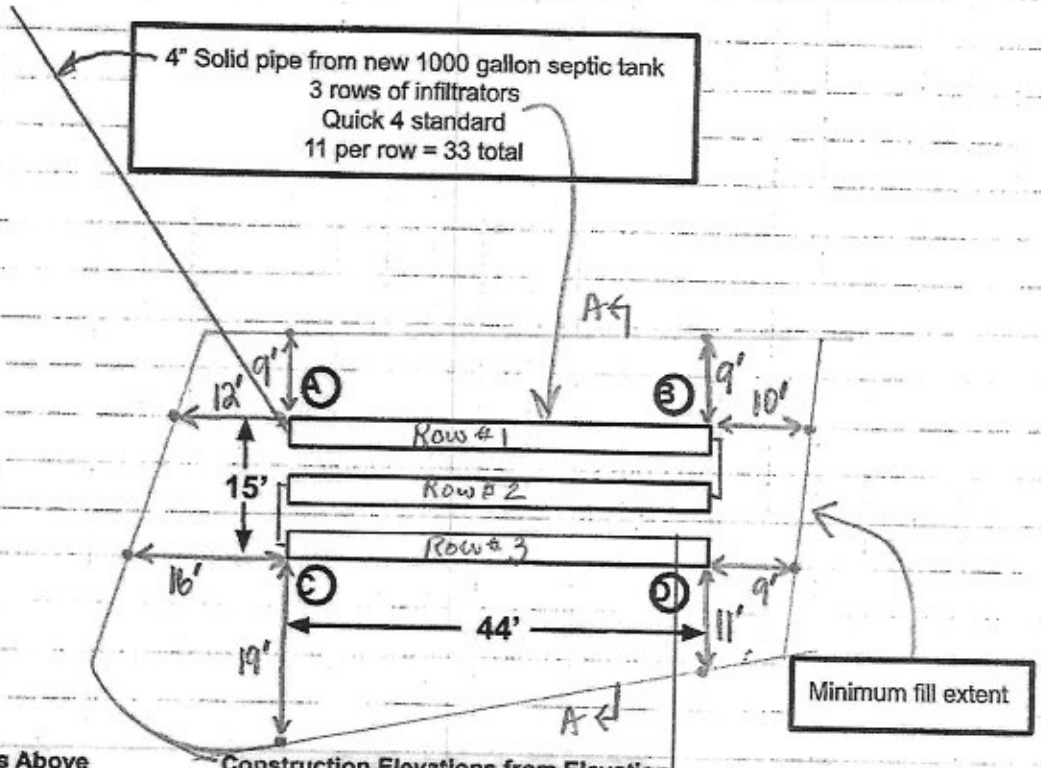
SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION

Maine DHHS/CDC – Division of Environmental and Community Health
(207) 287-2070 | Fax (207) 287-4172 | subsurface.wastewater@maine.gov

Owner: K. WHITE
Address: ORRINGTON

Scale 1" = 20 ft.

SUBSURFACE WASTEWATER DISPOSAL PLAN



Backfill Requirements Above Existing Grade

Depth of Backfill (upslope)
Depth of Backfill (downslope)
Depths at Cross- Section

A – 21"
B – 20"
C – 33"
D – 20"

See Bed Cross-Section

Scales:
Vertical: 1" = _____ ft.
Horizontal: 1" = _____ ft.

Construction Elevations from Elevation Reference Point

Finished Grade Elevation
Top of Distribution Pipe or Proprietary Device
Bottom of Disposal Field

DISPOSAL AREA CROSS-SECTION

See Next Page

Elevation Reference Point

Location & Description: NAIL IN 36" OAK ~12" ABOVE GROUND
Reference Elevation is: 0.0 '

General Notes

1. All materials and installation shall be in accordance with the Maine Subsurface Wastewater Disposal Rules
2. Install all erosion and sediment control before construction.
3. All systems are located within owner/applicant's property as per the owner/owner representative.
4. Septic tank to be 8' minimum from building and water tight. (one-piece tank recommended)
5. Final grading to be completed so that surface and groundwater are diverted around the disposal field.
6. Protect all piping and distribution box from freezing.
7. Well to be a minimum of 100' from septic system, 50' minimum from septic tank.
8. Disposal field to be 20' minimum from foundation or frost wall, or 15' from slab.
9. Septic tank to have watertight access covers to grade. Pump tank to have watertight access covers to grade.
10. This system is not designed for use with a garbage disposal.
11. Backwash from a water softener not to be put into this system.

Kevin St. Laurent 271 4/12/26

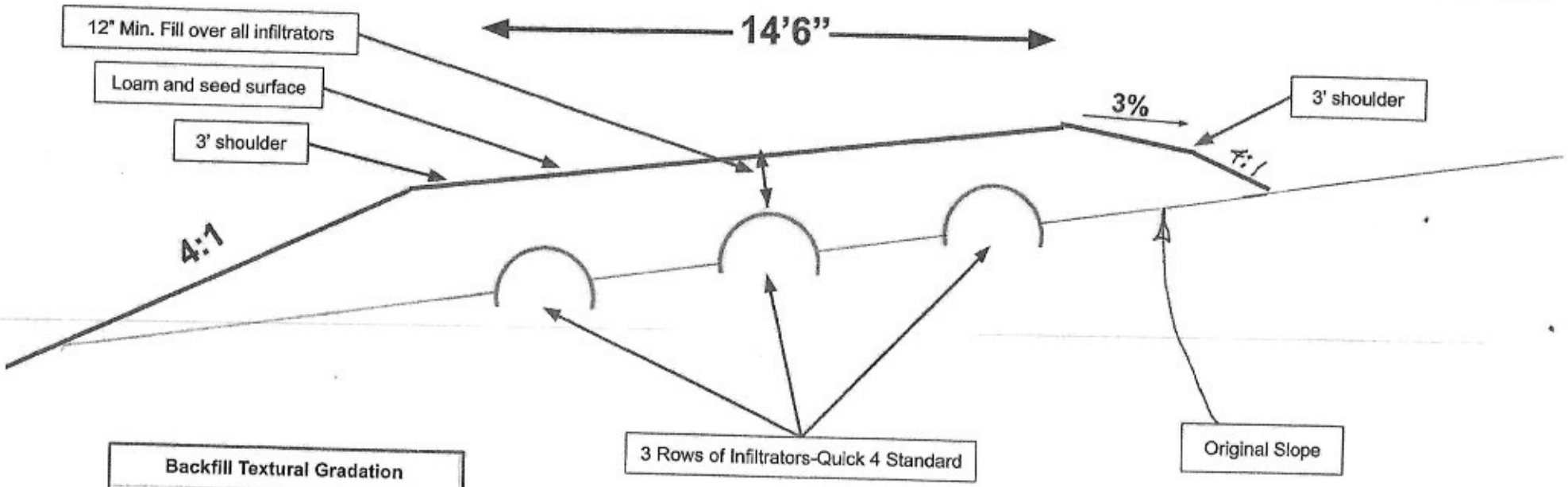
Owner: K. WHITE

Location: ORRINGTON

INFILTRATOR CROSS-SECTION

Notes:

1. Remove vegetation and scarify original soil under bed and fill extension areas.
2. Bottom of bed to be level with maximum grade tolerance of 1" per 100'.
3. Do not install on frozen ground.
4. Rototill 4" of gravelly coarse sand into original soil.



Backfill Textural Gradation	
Sieve Size	% Passing by Weight
3 inches	100
#4	75 - 100
#10	50 - 100
#60	10 - 50
#100	2 - 20
#200	2 - 8
Clay Fraction	0 - 2

Elevation Reference Point: 0

	Row #1	Row #2	Row #3
Finish Grade:	-4"	-7"	-10"
Top of Infiltrators:	-16"	-19"	-22"
Bottom of Infiltrators:	-28"	-31"	-34"

Kenneth E. Libbey, Jr.

SE #271

Date: 4/12/26

Maine Center for Disease Control and Prevention
An Office of the Department of Health and Human Services

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) 287-5672
Fax: (207) 287-4172; TTY: 1-800-606-0215

SUBSURFACE WASTEWATER DISPOSAL SYSTEM VARIANCE REQUEST

This form must accompany an application (HHE-200 Form) for any 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 and Human Services until approval has been received from the Department.

GENERAL INFORMATION

Town of Orrington

Property Owner's Name: Ken White Tel. No.: 570-5051

System's Location: 21 Betts Rd, Orrington

Property Owner's Address: 783 River Road, Orrington Zip Code 04474

e-mail address: fortunatedad@gmail.com

The subsurface wastewater 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 ☐ local and state approval.

SPECIFIC VARIANCE REQUESTED (To be filled in by Site Evaluator. Use additional sheets if needed.)

	SECTION OF RULE
1. Distance from replacement system to owners well 92'	9
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 professional opinion feels the variance request is justified and the site limitations can be overcome, he 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 sheet if necessary.

This is a replacement design, if needed. The slope from well to system is downslope. Can't move closer to road as fill will run into existing ditch.

I, Kenneth E. Libbey Jr, 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. In my judgment, the proposed system design on the attached Application is the best alternative available; enhances the potential of the site for subsurface wastewater disposal; and that the system should function properly.

Kenneth E. Libbey Jr — SIGNATURE OF SITE EVALUATOR

4/12/24 — DATE

PROPERTY OWNER

I, _____, am the ☐ owner ☐ 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 OWNER ☐ AGENT FOR THE OWNER

_____ — DATE

LOCAL PLUMBING INSPECTOR - Approval at local level

The local plumbing inspector shall review all 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

The local plumbing inspector shall review all 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. 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

Notes: 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 7.B.4 of the Subsurface Wastewater Disposal Rules 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 7.B.3 for Department Review.) The LPI's signature is required on these variance requests prior to sending them to the Department.

SOIL, SITE AND ENGINEERING FACTORS FOR FIRST TIME SYSTEM VARIANCE ASSESSMENT WITH LIMITING SOIL DRAINAGE CONDITIONS (SEE TABLES 7C THROUGH 7M).

	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 Distance		
Additional Treatment		
	TOTAL POINT ASSESSMENT:	

Minimum Points (Check One): ☐ Outside Shoreland Zone-50 ☐ Inside Shoreland Zone-65 ☐ Subdivision-65

Address: 21 Betts Road Orrington

Property Owner's Name: Ken White

DISPOSAL SYSTEM VARIANCE REQUEST ATTACHMENT

Table 8A

Setback Distances for Replacement System, Limits of LPI Authority

VARIANCE CATEGORY	LIMIT OF LPI'S APPROVAL AUTHORITY						VARIANCE REQUESTED TO:	
SOILS								
Soil Profile	Ground Water Table							inches
Soil Condition	Restrictive Layer							inches
from HHE-200	Bedrock							inches
Site Features vs. disposal system components of various sizes	Disposal Fields (total design flow)			Septic Tanks and Holding Tanks (total design flow)			Disposal Fields	Septic Tanks
	Less than 1000 gpd	1000 to 2000 gpd	Over 2000 gpd	Less than 1000 gpd	1000 to 2000 gpd	Over 2000 gpd	To	To
Wells with water usage of 2000 or more gpd or public water supply wells	300 ft	300 ft	300 ft	150 ft	150 ft	150 ft		
Potable Supply Well	100 down to 60 ft	200 down to 100 ft	300 down to 150 ft	50 down to 25 ft [a]	100 down to 50 ft [a]	100 down to 50 ft	92	
Water supply line	10 ft	20 ft	25 ft	10 ft	10 ft	10 ft		
Water course, major [c]	100 down to 50 ft	200 down to 120 ft	300 down to 180 ft	100 down to 25 ft [a]	100 down to 50 ft	100 down to 50 ft		
Water course, minor [c]	50 down to 25 ft	100 down to 50 ft	150 down to 75 ft	50 down to 25 ft	50 down to 25 ft	50 down to 25 ft		
Drainage ditches	25 down to 12 ft	50 down to 25 ft	75 down to 35 ft	25 down to 12 ft	25 down to 12 ft	25 down to 12 ft		
Slopes greater than 3:1	10 ft	18 ft	25 ft	N/A	N/A	N/A		
No full basement [e.g. slab, columns, posts]	15 down to 7 ft	30 down to 15 ft	40 down to 20 ft	8 down to 5 ft	14 down to 7 ft	20 down to 10 ft		
Full basement [below grade foundation, frost wall]	20 down to 10 ft	30 down to 15 ft	40 down to 20 ft	8 down to 5 ft	14 down to 7 ft	20 down to 10 ft		
Property lines	10 down to 5 ft [b]	18 down to 9 ft [b]	20 down to 10 ft [b]	10 down to 4 ft [b]	15 down to 7 ft [b]	20 down to 10 ft [b]		
Burial sites or graveyards boundaries, measured from the down toe of the fill extension	25 ft	25 ft	25 ft	25 ft	25 ft	25 ft		
Stormwater infiltration systems	100 down to 60 feet	200 down to 120 feet	300 down to 180 feet	100 down to 50 feet	100 down to 50 feet	100 down to 50 feet		
Wetponds, retention ponds, and detention basins (excavated below grade); Soil filters underdrained swales, underdrained outlets, and similar structures	50 down to 25 feet [d]	100 down to 50 feet [d]	150 down to 75 feet [d]	50 down to 25 feet [d]	50 down to 25 feet [d]	50 down to 25 feet [d]		
Stormwater detention basins (basin bottom at, or above, predevelopment grade)	25 down to 12 feet	50 down to 25 feet [d]	75 down to 35 feet [d]	25 down to 12 feet	25 down to 12 feet	25 down to 12 feet		
OTHER 1. 2. 3.								

Notes:

[a] This distance may be reduced to 25 feet, if the septic or holding tank is tested in the LPI's presence and shown to be watertight pursuant to water tightness standards found in Section 6(H)(8) or of monolithic construction.

[b] Additional setbacks may be needed to prevent fill material extensions from encroaching onto abutting property.

[c] All ground disturbance or clearing of woody vegetation necessary for the installation of a subsurface wastewater disposal system that occurs within 100 feet of the normal high water mark of a major or minor water body/course must comply with these Rules pertaining to work adjacent to or within wetlands and water bodies (for more details, see Section 12).

[d] The reduced setback distance may be further reduced down to 12 feet if the stormwater structure has an impervious liner and the fill extensions do not encroach onto the stormwater structure.

Construction Standards

General

1. Construction of this disposal system shall comply with the minimum standards set forth in the State of Maine Subsurface Wastewater Disposal Rules, Chapter 241(Plumbing Code).
2. No deviations from the drawings will be allowed without written consent of the Site Evaluator, local Plumbing Inspector, and the Owner.
3. On sites with fine textured soils, systems shall not be installed during or within 48 hours of a rain event or when soils are saturated.
4. Disposal fields should not be installed in frozen ground if possible, or when air temperatures are below freezing, especially if construction will take place over several days.

Site Preparation

1. Surface water shall be diverted away from the construction site before construction begins.
2. Prior to the placement of any fill the ground surface shall be prepared as follows:
    a. All vegetation, stumps roots, and the organic duff layer shall be removed from the entire disposal field as well as the fill extension areas that will surround the disposal field.
    b. The entire area which is to receive fill for the disposal field shall be scarified prior to any fill placement.
    c. If large holes are left as a result of stump and/or boulder removal, these holes shall be filled with gravelly materials.
3. Loam shall be topsoil taken from the excavation or topsoil of a similar texture. It shall be free from gravel, roots, clods, or stones larger than 2 inches.
4. Fertilizer shall be standard commercial 10-10-10 mixture.
5. Seed shall contain a mixture of annual and perennial grass seeds such that a fast and lasting catch of grass is obtained.
6. Mulch material shall consist of hay or straw reasonably free from noxious weeds.

Excavation

1. Excavation shall be carried out in a manner that will avoid unnecessary compaction of both sidewalls and bottom area. Heavy equipment such as bulldozers or front end loaders should not be driven over the exposed bottom of the disposal field. Excavation should be carried out when possible by a back-hoe operated from outside the perimeter of the disposal fields.
2. If any portion of the bottom of sidewalls become smeared or compacted, that portion should be scarified to reopen soil pores. Rototilling may be necessary to reach the limit of compacted soil depth.
3. The bottom of each disposal field shall be excavated and/or maintained to a level grade referenced in the design to a set elevation below the established reference point.
4. Excavated material not required for backfill shall be removed from the site and disposed of by the contractor.
5. The septic tank is to be placed on a working pad of 6 inches or more of compacted bank run gravel or crushed stone.
6. Abandoned septic tanks shall be pumped out and filled with soil or removed.

Disposal Field Stone

1. The disposal field stone shall be clean washed stone, free of fines, dust, and clay.
2. The disposal field stone shall be loaded onto the field from the sides rather than driving onto the bottom of the disposal field. In the case of large disposal fields, tracked equipment may be operated within the disposal field, provided that the equipment does not exert ground pressure in excess of 8 pounds per square foot and that the disposal field stone is pushed in front of the vehicle such that a minimum of 1 foot of stone is maintained beneath the vehicle track and the original soil surface.
3. The stone shall cover the distribution pipes and extend the full width and length of the disposal field.
4. The disposal field stone depth shall extend 7 inches under the bottom of the distribution pipes and shall extend at least 1 inch above the top of the distribution pipes.
5. The disposal field stone shall be covered with filter fabric and the edges of adjacent sheets shall be overlapped a minimum of 6 inches.

Pipe and Fittings

1. Install all pipes in accordance with manufacturer's recommendation.
2. Lay all pipes accurately to line and grade. Completed lines will be free of offsets and deviations.

3. Lay all pipes in the dry. Plug open ends of the pipes when work is suspended. Do not use pipes to convey ground water. Clean all deposits from pipe lines at the completion of work.
4. All pipe connections shall be water tight.
5. Pressure and gravity lines shall be protected against freezing.
6. Distribution pipes within the disposal field shall be level to ensure even and uniform distribution of effluent (maximum tolerance of 1" in 100').
7. The spacing between all distribution pipes shall be equal and uniform.

Tanks, etc.

1. Proprietary devices approved by the Maine Department of Human Services, which substitute for disposal field stone and pipe, shall be installed per the manufacturers instructions.
2. Septic tanks shall be set level in a prepared dry excavation. Tanks should have adequate cover to prevent freezing. The use of risers above grade is required in order to permit year round access.
3. Septic tank filters shall be installed per manufacturers specifications.
4. Distribution boxes, where required shall be installed level on a well compacted surface. The boxes shall be installed water tight and insulated. Outlet flow shall be controlled by use of flow equalizers. Distribution boxes should be checked annually to adjust flow equalizers if necessary.
5. Insulation shall be Styrofoam type sheets 2 inches thick.

Filling and Fill Material

1. All fill material shall meet the specifications listed on the subsurface wastewater design plan.
2. Fill shall be placed in 8 inch layers under the disposal area and compacted. Compaction shall be accomplished in a manner which will allow drainage through the fill material, but will be enough to not allow settling of the fill material.
3. Final grading shall be completed in such a manner that surface water will not collect over or in back of the subsurface wastewater disposal system.

Protection from Erosion

1. Immediately after completing of final grading, the surface shall be mulched and seeded, or sodded, to establish a good vegetative cover to prevent erosion. Grass, clover, vetch, and perennials may be utilized for the disposal area surfaces. Woody shrubs in conjunction with hardy perennial ground cover may be used on fill extensions only.
2. Shape all disturbed areas which are to be revegetated to final design grade, including installation of all measures to provide surface and subsurface drainage. Install erosion and sediment control measures below work area. Remove measures once site is fully stabilized with grass, etc.

Seedbed Preparation

1. Spread loam uniformly on all disturbed areas to a minimum depth of 2 inches. The loam shall be hand raked to achieve a smooth surface blending into the undisturbed areas.
2. Fertilizer shall be applied at a rate of 30 pounds per 1000 square feet. It shall be thoroughly mixed with the soil to a depth of 1 inch.
3. The seed mixture shall be sown at the rate of 3 pounds per 1000 square feet. Mulch shall be applied to all seeded areas the same day as seeding.
4. Mulching is an important step in establishing vegetation. Properly applied, mulch will help hold moisture, protect soil from erosion, hold seed in place and keep soil temperature more constant.