PIF 9/19/16

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

City, Town, or Plantation	Augusta
Street or Road	54 Thurston Rd
Subdivision, Lot #	M4 / L134B

OWNER/APPLICANT INFORMATION

Name (last, first, MI)	Morin, Dave ☒ Owner ☐ Applicant
Mailing Address of Owner/Applicant	P.O. Box 5536 Augusta, Me 04332
Daytime Tel. #	242-6475

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.

Signature of Owner or Applicant — Date 8/12/16

>> CAUTION: LPI APPROVAL REQUIRED <<

AUGUSTA PERMIT #7285 TOWN COPY
Date Permit Issued: 9/16/16 $ 250.00 fee + $15
LPI # 850

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 — (1st) date approved — (2nd) date approved

PERMIT INFORMATION

TYPE OF APPLICATION
- ☒ 1. First Time System
- ☐ 2. Replacement System
  - Type replaced: ____
  - Year installed: ____
- ☐ 3. Expanded System
  - ☐ a. <25% Expansion
  - ☐ b. >25% Expansion
- ☐ 4. Experimental System
- ☐ 5. Seasonal Conversion

THIS APPLICATION REQUIRES
- ☒ 1. No Rule Variance
- ☐ 2. First Time System Variance
  - ☐ a. Local Plumbing Inspector Approval
  - ☐ b. State & Local Plumbing Inspector Approval
- ☐ 3. Replacement System Variance
  - ☐ a. Local Plumbing Inspector Approval
  - ☐ b. State & Local Plumbing Inspector Approval
- ☐ 4. Minimum Lot Size Variance
- ☐ 5. Seasonal Conversion Permit

DISPOSAL SYSTEM COMPONENTS
- ☒ 1. Complete Non-engineered System
- ☐ 2. Primitive System (graywater & alt. toilet)
- ☐ 3. Alternative Toilet, specify: ____
- ☐ 4. Non-engineered Treatment Tank (only)
- ☐ 5. Holding Tank, ____ gallons
- ☐ 6. Non-engineered Disposal Field (only)
- ☐ 7. Separated Laundry System
- ☐ 8. Complete Engineered System (2000 gpd or more)
- ☐ 9. Engineered Treatment Tank (only)
- ☐ 10. Engineered Disposal Field (only)
- ☐ 11. Pre-treatment, specify: ____
- ☐ 12. Miscellaneous Components

SIZE OF PROPERTY
10 ☐ SQ. FT. ☒ ACRES

SHORELAND ZONING
☐ Yes ☒ No

DISPOSAL SYSTEM TO SERVE
- ☒ 1. Single Family Dwelling Unit, No. of Bedrooms: 3
- ☐ 2. Multiple Family Dwelling, No. of Units: ____
- ☐ 3. Other: ____ (specify)

Current Use ☐ Seasonal ☐ Year Round ☒ Undeveloped

TYPE OF WATER SUPPLY
- ☒ 1. Drilled Well ☐ 2. Dug Well ☐ 3. Private
- ☐ 4. Public ☐ 5. Other

DESIGN DETAILS (SYSTEM LAYOUT SHOWN ON PAGE 3)

TREATMENT TANK
- ☒ 1. Concrete
  - ☒ a. Regular
  - ☐ b. Low Profile
- ☐ 2. Plastic
- ☐ 3. Other: ____
- CAPACITY: 1000 GAL.

DISPOSAL FIELD TYPE & SIZE
- ☒ 1. Stone Bed ☐ 2. Stone Trench
- ☐ 3. Proprietary Device
  - ☐ a. cluster array ☐ c. Linear
  - ☐ b. regular load ☐ d. H-20 load
- ☐ 4. Other: ____
- SIZE: 900 ☒ sq. ft. ☐ lin. ft.

GARBAGE DISPOSAL UNIT
- ☒ 1. No ☐ 2. Yes ☐ 3. Maybe
- If Yes or Maybe, specify one below:
  - ☐ a. multi-compartment tank
  - ☐ b. ____ tanks in series
  - ☐ c. increase in tank capacity
  - ☐ d. Filter on Tank Outlet

DESIGN FLOW
270 gallons per day
BASED ON:
- ☒ 1. Table 4A (dwelling unit(s))
- ☐ 2. Table 4C(other facilities)
  SHOW CALCULATIONS for other facilites
- ☐ 3. Section 4G (meter readings)
  ATTACH WATER METER DATA

SOIL DATA & DESIGN CLASS
PROFILE CONDITION
S1 C
at Observation Hole # 1
Depth 30"
of Most Limiting Soil Factor

DISPOSAL FIELD SIZING
- ☐ 1. Medium—2.6 sq. ft. / gpd
- ☒ 2. Medium—Large 3.3 sq. ft / gpd
- ☐ 3. Large—4.1 sq. ft. / gpd
- ☐ 4. Extra Large—5.0 sq. ft. / gpd

EFFLUENT/EJECTOR PUMP
- ☒ 1. Not Required
- ☐ 2. May Be Required
- ☐ 3. Required

Specify only for engineered systems:
DOSE: ____ gallons

LATITUDE AND LONGITUDE
at center of disposal area
Lat. 44 d 21 m 16 s
Lon. 69 d 35 m 61 s
if g.p.s, state margin of error: 60

SITE EVALUATOR STATEMENT

I certify that on 6/16/16 (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).

James W. Marple — Site Evaluator Signature
S 304 — SE #
6/27/16 — Date

James W. Marple — Site Evaluator Name Printed
207-589-4305 — Telephone Number
Cell 207 557-2260
E-mail Address

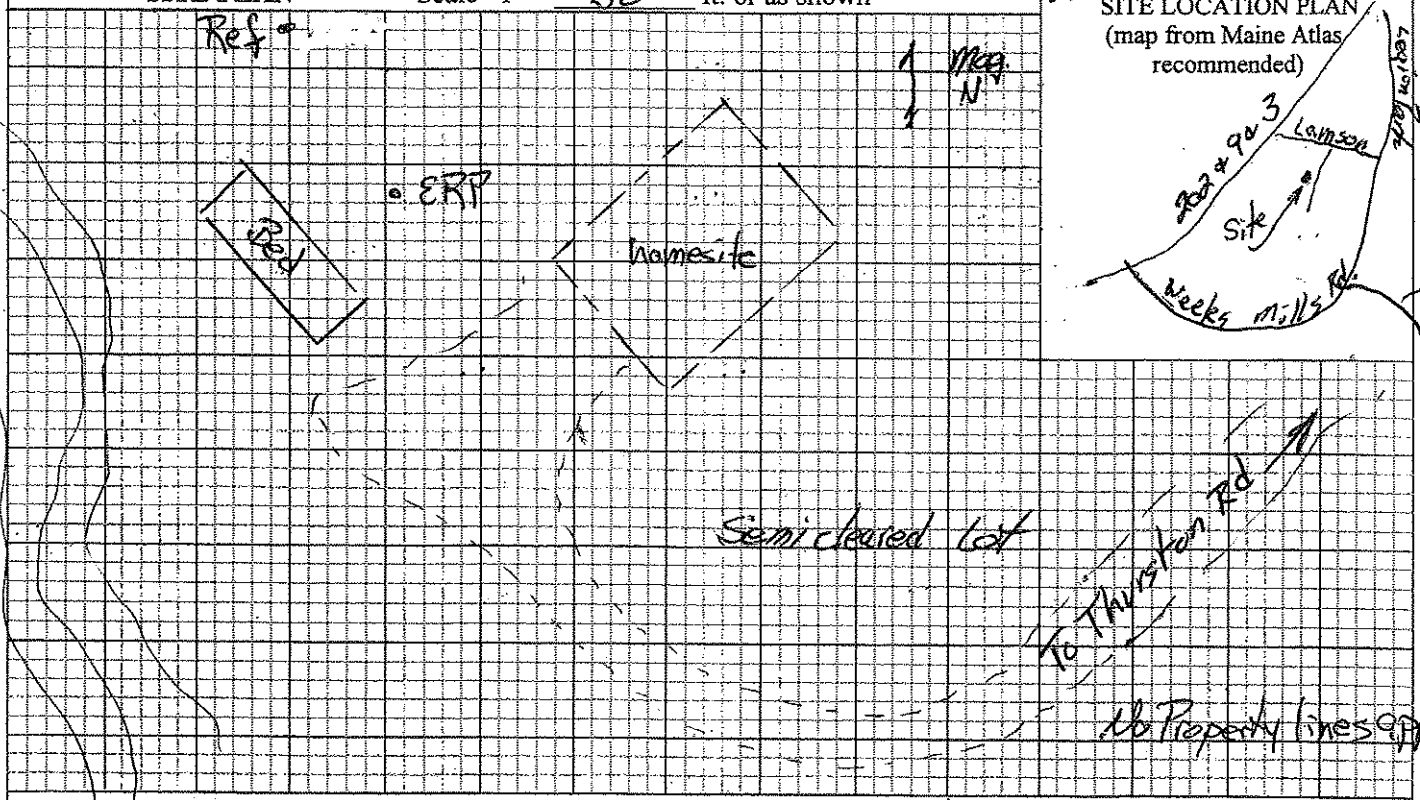
Note : Changes to or deviations from the design should be confirmed with the Site Evaluator.

SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION

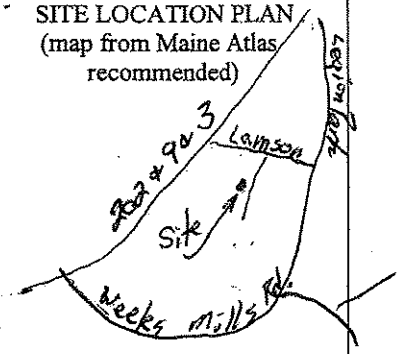
Department of Health & Human Services
Division of Environmental Health
(207) 287-5672 Fax: (207) 287-3165

Town, City, Plantation	Street, Road, Subdivision	Owner's Name
Augusta	54 Thurston Rd	David Morin

SITE PLAN Scale 1" = 50 ft. or as shown



SITE LOCATION PLAN
(map from Maine Atlas recommended)



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

Observation Hole TP 1 ☐ Test Pit ● Boring
_____ " Depth of Organic Horizon Above Mineral Soil

Depth Below Mineral Soil Surface (inches)	Texture	Consistency	Color	Mottling
0–10	Very Sandy Loam	Friable	Red Brown	
10–20	Many Fragments			
20–30				None
30–40		Bottom		
40–50				

Soil Classification	Slope	Limiting Factor	
3 (Profile) CorB (Condition)	6 %	34"	[ ] Ground Water [ ] Restrictive Layer [ ] Bedrock ● Pit Depth

Observation Hole #2 ☐ Test Pit ● Boring
_____ " Depth of Organic Horizon Above Mineral Soil

Depth Below Mineral Soil Surface (inches)	Texture	Consistency	Color	Mottling
0–10				
10–20				
20–30		Same		
30–40				
40–50				

Soil Classification	Slope	Limiting Factor	
3 (Profile) CorB (Condition)	6 %	34"	[ ] Ground Water [ ] Restrictive Layer [ ] Bedrock ● Pit Depth

James W. Marple — Site Evaluator Signature
S 304 — SE #
6/29/16 — Date

SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION

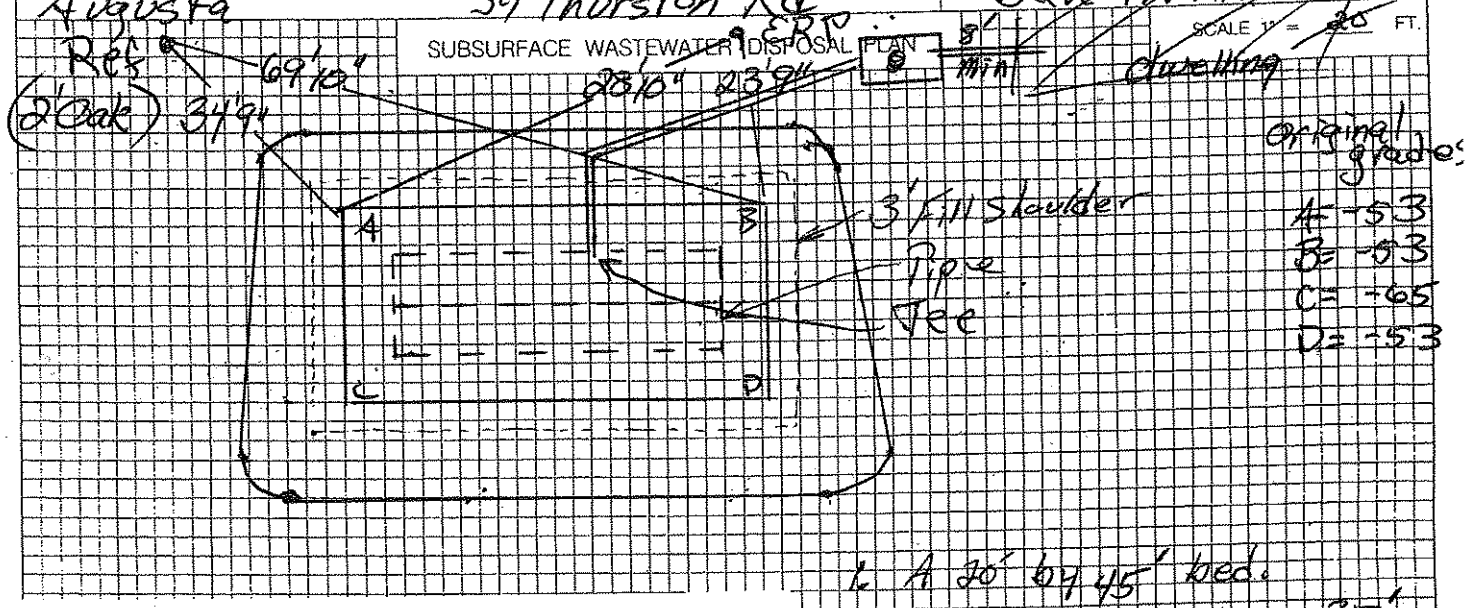
Department of Human Services
Division of Health Engineering
(207) 287-5672 FAX (207) 287-4172

Town, City, Plantation: Augusta

Street, Road, Subdivision: 54 Thurston Rd

Owner's Name: Dave Marin

SUBSURFACE WASTEWATER DISPOSAL PLAN — SCALE 1" = ~~20~~ FT.



1. A 20' by 45' bed.
2. 3, 4" distribution lines 35' long and spaced 5' apart.
3. Tank is 5' from slab or 8' from full foundation.
4. Bed is 15' from slab or 20' from full foundation
5. Tank is 100' from owners well or 50' if monolithic tank is used

Remove topsoil, roots, and organic matter under the required sand area of a proposed system, including the slope extensions of raised systems.
Maintain the existing characteristics of the underlying soil as much as possible.
Add the sand fill on the same day that the leach area is excavated.
Do not allow water to run into or over the system during construction.
Do not work wet or frozen soils.

Minimize machine movement to avoid soil compaction and destruction of the soil structure under and around the system. Be especially careful not to compact soil on the down slope side of the system.

FILL REQUIREMENTS		CONSTRUCTION ELEVATIONS		ELEVATION REFERENCE POINT
Depth of Fill (Upslope)	10"	Finished Grade Elevation	-42"	Location & Description: A nail 15" high in 2' oak tree
Depth of Fill (Downslope)	22"	Top of Distribution Pipe or Proprietary Device	-54"	
		Bottom of Disposal Area	-65"	Reference Elevation: -0-

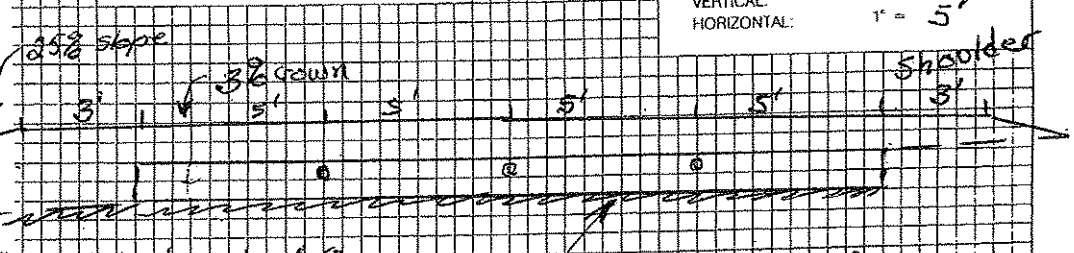
604.2.3 Field Determination of backfill: Due to the difficulty of obtaining sieve analyses and the variability of backfill material, the following procedures can be used in the field to determine the suitability of backfill material. The backfill is suitable if the soil texture is loose single grains, the individual sand grains can be readily seen (similar to salt or sugar grains) and felt, and the following conditions are observed: If squeezed in the hand when dry, it will fall apart when the pressure is released but has enough fines to stain the lines in the palm of the hand; or, if squeezed when moist, it will form a cast that will crumble when touched and bears very careful handling; and it does not form a ribbon between the thumb and forefinger and has enough fines to stain the lines in the palm of the hand.

604.2.1 Coarse fragments: The upper limit of coarse fragments shall be 3 inches in diameter and approximately 5% by volume;

604.4.1 Extent of backfill material: The fill layer shall include any backfill beneath the disposal field, the shoulders, and the backfill material extensions surrounding the disposal field on all sides.

DISPOSAL AREA CROSS SECTION

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



Original grade 6%
Fill is gravelly course sand
Filter fabric over Stone

1. Remove organic matter from under bed and fill extensions.
2. Bed bottom is level.
3. New fill and original soil to be tilled together for 6" transition horizon
4. 12" Clean Uniform Stone 3/4" to 2 1/2"
5. Final grades 4" topsoil, seed, and mulch hay

James W. Marple — Site Evaluator Signature
S 304 — SE #
6/29/16 — Date

Additional information about your system and HHE-200 Form

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