2016-018



SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION Maine Dept. Health & H Div of Environmental H (207) 287-5672 FAX (PROPERTY LOCATION 07/27/16 >>CAUTION: LPI APPROVAL REQUIRED<< City, Town, or Plantation PORTLAND (PEAKS ISLAND) DLYNDON AVENUE IN Frederick Town/City F Permit # 2016 - 01845 Street or Road Date Permit Issued Fee SOO, CO Double Fee Charged [] Subdivision, Lot # LPI# (OS) OWNER/APPLICANT INFORMATION Local Plumbing Inspector Signature Name (last, first, MI) Owner N/F KINNAIRD Applicant The Subsurface Wastewater Disposal System styll nor be installed until a Mailing Address PAUL STENZEL & JUDITH WALSH Permit is issued by the Local Plumbing Inspector. The Permit shall 749 FOREST AVENUE BUFFALO. N.Y. 14209 authorize the owner or installer to install the disposal system in accordance Applicant BUFFALO, N.Y. with this application and the Maine Subsurface Wastewater Disposel Rules. Daytime Tel. # (716)882-3235 Municipal Tax Map # _89 Lot #_D-6 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 I have inspected the installation authorized above and found it to be in compliance with the Subsurface Wastewater Disposal Rules Application. and/or Local Plumbing Inspector to deny a permit. (1st) Date Approved Signature of Owner/Applicant Date Local Plumbing Inspector Signature (2nd) Date Approved PERMIT INFORMATION TYPE OF APPLICATION THIS APPLICATION REQUIRES DISPOSAL SYSTEM COMPONENTS 1. First Time System 1.No Rule Variance 1. Complete Non-Engineered System ☐ 2. Replacement System 2.First Time System Variance ☐ 2. Primitive System(graywater & alt tollet) Type Replaced: a. Local Plumbing Inspector Approval ☐ 3. Alternative Toilet, specify: Year Installed: b. State & Local Plumbing Inspector Approval ☐ 4. Non-Engineered Treatment Tank (only) 3. Expanded System ☐3.Replacement System Variance 5. Holding Tank, gallons a. <25% Expansion a. Local Plumbing Inspector Approval □ 6. Non-Engineered Disposal Field (only) ☐ b._>25% Expansion b. State & Local Plumbing Inspector Approval 7. Separated Laundry System ☐ 4. Experimental System □4.Minimum Lot Size Variance 8. Complete Engineered System(2000gpd+) ☐ 5. Seasonal Conversion ☐5.Seasonal Conversion Permit 9. Engineered Treatment Tank (only) SIZE OF PROPERTY DISPOSAL SYSTEM TO SERVE 10. Engineered Disposal Field (only) 11. Pre-treatment, specify: ☐ SQ. FT. 1. Single Family Dwelling Unit, No. of Bedrooms: +/- !43 ☐ 12. Miscellaneous components M ACRES 2. Multiple Family Dwelling, No of Units: SHORELAND ZONING 3. Other; TYPE OF WATER SUPPLY (PROPOSED)

1. Drilled Well (2. Dug Well (3. Private (specify) Yes ₩ No Current Use 🗌 Seasonal 🔲 Year Round 🔞 Undeveloped 4. Public 5. Other: DESIGN DETAILS (SYSTEM LAYOUT SHOWN ON PAGE 3) TREATMENT TANK DISPOSAL FIELD TYPE & SIZE GARBAGE DISPOSAL UNIT **DESIGN FLOW** 1. Concrete ☐ 1. Stone Bed ☐ 2. Stone Trench BASED ON: ■1. No 2. Yes 3. Maybe 🗌 a. Regular 3. Proprietary Device If Yes or Maybe, specify one below: 1.Table 4A (dwelling unit(s))

2.Table 4C (other facilities) b. Low Profile (IF NEC.) ☐a. Cluster array ■c.Linear a.Multi-compartment tank ☐ 2. Plastic **■**b. Regular ☐ d. H-20 loaded SHOW CALCULATIONS for other facilities □ b. _ tanks in series 3. Other: 4. Other: Co.Increase in tank capacity CAPACITY: 1000 GAL SIZE 1152 ■sq. ft. Olin, ft. d.Filter on tank outlet 24 ELJEN IN-DRAIN UNITS 3 BEDROOMS AT **SOIL DATA & DESIGN CLASS** 90 GALLONS PER DISPOSAL FIELD SIZING PROFILE CONDITION **EFFLUENT/EJECTOR PUMP** DAY EACH 🖺 1. Not required /_ AIII 3. Section 4G (meter readings)
ATTACH WATER-METER DATA 1. Medium - 2.6 sq.ft./gpd 2. May be required at Observation Hole # TB B 2. Medium-Large - 3.3 sq.ft./gpd LATITUDE AND LONGITUDE 3. Required 3. Large - 4.1 sq.ft./gpd Depth 20 " at center of disposal area Specify only for engineered systems: Lat. N 43 d 39 m 49,88 s Lon. W 70 d 10 m 5970 s of Most Limiting Soil Factor ☐ 4. Extra-Large - 5.0 sq.ft./gpd <u>10 m 5970 s</u> DOSE: if g.p.s., state margin of error SITE EVALUATOR STATEMENT I Certify that on 1 1/15/13 (date) I completed a site evaluation on this property and state that the data reported is accurate and that the proposed sytem is in compliance with the Subsurface Wastewater Disposal Rules (10-144A CMR 241). Site Evaluator Signature SE# /Date

ALBERT FRICK
Site Evaluator Name Printed

ALBERT FRICK ASSOCIATES - 95A COUNTY ROAD ROAD GORHAM, MAINE 04038 - (207) 839-5563

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

ALBERTCALBERTERICKCOM

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SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION Maine Department of Human Se Division of Health Engineering, Static (207) 257-5672 FAX (207) 23 Town, City, Plantation Street, Road Subdivision Owner's Name PORTLAND (PEAKS ISLAND) O LYNDON AVENUE 07/27/16 N/F KINNAIRD (FOR PAUL 5 Date SITE PLAN Scale Jii a SITE LOCATION PLAN (Attach Map from Maine Allas for New System Variance) ATLANTIC OCEAN or as shown Varionce) SEASHORE LYNDON AVE. 52154' LOT 6 ERP 8" DIA WHÍTE BÍRCH. APPROX PROPOSED \$jèd> DWELLING/LOCATION (20 MIN FROM DISPOSAL AREA) PROPOSED DISPOSAL ARE TBIE BÉDROCI OUTCROP NOTE: PROPERTY INFORMATION APPROXIMATED PER PLAN BY OWEN HASKELL, INC. DATED JAN. 24, 2003 HOLE SOIL DESCRIPTION AND CLASSIFICATION (Location of Observation Holes Shown Above) n Hole TP | Test Pit Depth of Organic Horizon Above Mineral Soil TB A-D ☐ Boring Observation Hole ☐ Test Pit Depth of Organic Horizon Above Mineral Soil Texture Consistency Color Mottling Textore Consistency Color Mottling SANDY DARK LOAM BROWN George 10 FRTARI-F 10 GRAVELLY TB A = 21" TO BEDROCK DARK SANDY SURPACE YELLOWISH ¢C₹ TB B = 20" TO BEDROCK LOAM BROWN SURF 20 TB C = 22" TO BEDROCK SOIL SOC BEDROCK MINE R.A. MANERAL TB D = 23" TO BEDROCK 30 30 BELOW 30 SE 40 40

Limiting

Factor 22

Slope

Ground Water Restrictive Layer Badrock Fit Depth

Sail Classification

Profile

163

SE

ATII Conditio Linsting

factor 20 U Ground Water □ Restrictive Layer ■ Bedrock

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D Pit Depth

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50

Soil Classification

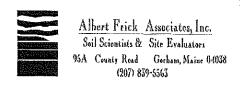
Evaluator Signatur



HHE-200 Rev. 10/02

SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION Maine Department of Human Division of Health Engineering, St (207) 287-5672 FAX (207) Town, City, Plantation 07/27/16 Street, Road, Subdivision Owner's Name PORTLAND (PEAKS ISLAND) O LYNDON AVENUE N/F KINNAIRD (FOR PAUL STENZEL) SUBSURFACE WASTEWATER DISPOSAL PLAN APPROX. PROPERTY LINE APPROX, PROPOSED DWELLING LOCATION ER.P. B" DIA WHITE BIRCH (20' MIN. FROM NAIL 62" ABOVE BASE OF TREE DISPOSAL AREA) I.P.F. NEW 1000 GALLON CONCRETE SEPTIC TANK (LOCATE WHERE FEASIBLE, 8' MIN. FROM DWELLING STRUCTURE) DISTRIBUTION BOX-PROPOSED DISPOSAL AREA (INSULATE PER CODE) (4 ROWS OF 6 ELJEN IN-DRAIN UNITS) dross SECTION NOTE: SET SEPTIC TANK AT HIGH ENOUGH ELEVATION TO ASSURE GRAVITY FLOW OR PROVIDE PUMP STATION APPROX. TOE OF FILL EXTENSION EXISTING GRADE Ъ AT CORNER GRAPHIC SCALE FILL REQUIREMENTS CONSTRUCTION ELEVATIONS **ELEVATION REFERENCE POINT** Depth of Fill (Upslope) + 27"-29" Finished Grade Elevation SEE Location & Description NAIL IN 8" DIA. WHITE BIRCH, 62" ABOVE BASE OF TREE Top of Distribution Pipe or Proprietory Device DETAIL Depth of Fill (Downslope) · 29"-35" Bottom of Disposal Area DEPTHS AT CROSS-SECTION (shown below) BELOW Reference Elevation is: 0,0" or _____ SCALE: DISPOSAL AREA CROSS SECTION VERTICAL: 514 m HORIZONTAL: +/- 7-8 5 +/- 14-20 FILL EXT. SHOULDER FILL EXT. 4" DIA, PERFORATED DISTRIBUTION PIPE CAP TOE OF FILL WITH SANDY LOAM MATERIAL ROTOTILL OR SCARIET ELJEN IN-DRAIN UNIT-EXCAVATOR TEETH GRAVELLY COARSE SAND SEE ELJEN IN-DRATH MANIM DEPTH BELOW ERPS ON SERIAL DISTRIBUTION ON SLOPES FOR PROPER PIPING CLEAN FILL . GEOTEXTILE FABRIC . OVER 4" DIA. PERF. PIPE T ELJEN IN-DRAIN UNIT GRAYELLY 63 Page 3 of 3 Sie E Stuator Signature

ALBERT FRICK ASSOCIATES - 95A COUNTY/ROAD ROAD GORHAM, MAINE 04038 - (207) 839-5583





PORTLAND (PEAKS ISLAND)

O LYNDON AVENUE

N/F KINNAIRD (FOR PAUL STENZEL)

TOWN

LOCATION

APPLICANT'S NAME

- The Plumbing and Subsurface Wastewater Disposal Rules adopted by the State of Maine, Division of Health and Human Services pursuant to 22 M.R.S.A. § 42 (the "Rules") are incorporated herein by reference and made a part of this application and shall be consulted by the owner/applicant, the system installer and/or building contractor for further construction details and material specifications. The system Installer should contact Albert Frick Associates, Inc. 839-5563, if there are any questions concerning materials, procedures or designs. The system installer and/or building contractor installing the system shall be solely responsible for compliance with the Rules and with all state and municipal laws and ordinances pertaining to the permitting, inspection and construction of subsurface wastewater disposal systems.
- This application is intended to represent facts pertinent to the Rules only. It shall be the responsibility of the owner/applicant, system Installer and/or building contractor to determine compliance with and to obtain permits under all applicable local, state and/or federal laws and regulations (including, without limitation, Natural Resources Protection Act, wetland regulations, zoning ordinances, subdivision regulations, Site Location of Development Act and Minimum Lot Size law) before installing this system or considering the property on which the system is to be installed a "buildable" lot. It is recommended that a wetland scientist be consulted regarding wetland regulations. Prior to the commencement of construction/installation, the local plumbing inspector or Code Enforcement Officer shall inform the owner/applicant and Albert Frick Associates, Inc of any local ordinances which are more restrictive than the Rules in order that the design may be amended. All designs are subject to review by local, state and/or federal authorities. Albert Frick Associates, Inc.'s liability shall be limited to revisions required by regulatory agencies pursuant to laws or regulations in effect at the time of preparation of this application.
- 3) All information shown on this application relating to property lines, well locations, subsurface structures and underground facilities (such as utility lines, drains, septic systems, water lines, etc.) are based upon information provided by the owner/applicant and has been relied upon by Albert Frick Associates, Inc. in preparing this application. The owner/applicant shall review this application prior to the start of construction and confirm this information. Well locations on abutting properties but not readily visible above grade should be confirmed by the owner/applicant prior to system installation to assure minimum setbacks.
- 4) Installation of a garbage (grinder) disposal is not recommended. If one is installed, an additional 1000 gallon septic tank or a septic tank filter shall be connected in series to the proposed septic tank. Risers and covers should be installed over the septic tank outlet per the "Rules" to allow for easy maintenance of filter.
- 5) The septic tank should be pumped within two years of installation and subsequently as recommended by the pump service, but in no event should the septic tank be pumped less often than every three years.

The system user shall avoid introducing kitchen grease or fats into this system. Chemicals such as septic tank cleaners and/or chlorine (such as from water treatment units) and controlled or hazardous substances shall not be disposed of in this system. Additives such as yeast or enzymes are discouraged, since they have not been proven to extend system life.

All septic tanks, pump stations and additional treatment tanks shall be installed to prevent ground water and surface water infiltration. Risers and covers should be properly installed to provide access while preventing surface water intrusion to within 6" of a finished ground surface.

Vehicular traffic over disposal system is prohibited unless specifically designed with H-20 rated components.

ATTACHMENT TO SUBSURFACE WASTEWATER DISPOSAL APPLICATION



PORTLAND (PEAKS ISLAND)

TOWN

O LYNDON AVENUE

N/F KINNAIRD (FOR PAUL STENZEL)

LOCATION APPLICANT'S NAME

7) The actual waste water flow or number of bedrooms shall not exceed the design criteria indicated on this application without a re-evaluation of the system as proposed

- 8) The general minimum setbacks between a well (public or private) and septic system serving a single family residence is 100-300 feet, unless the local municipality has a more stringent requirement. A well installed by an abutter within the minimum setback distances prior to the issuance of a permit for the proposed disposal system may void this design.
- 9) When a gravity system is proposed: BEFORE CONSTRUCTION/INSTALLATION BEGINS, the system installer or building contractor shall review the elevations of all points given in this application and the elevation of the existing and/or proposed building drain and septic tank inverts for compatibility to minimum pitch requirements. In gravity systems, the invert of the septic tank(s) outlet(s) should be at least 4 inches above the invert of the distribution box outlet at the disposal area.
- When an effluent pump is required: Pump stations should be sized per manufacturer's specifications to meet lift requirements and friction loss. Provisions shall be made to make certain that surface and ground water does not enter the septic tank or pump station, by scaling/grouting all seams and connections, and by placement of a riser and lid at or above grade. An alarm device warning of a pump failure shall be installed. Also, when pumping is required of a chamber system, install a 'T' connection in the distribution box and place 3 inches of stone or a splash plate in the first chamber. Insulate gravity pipes, pump lines and the distribution box as necessary to prevent freezing.
- On all systems, remove the vegetation, organic duff and old fill material from under the disposal area and any fill extension. Additional fill beyond indicated on plan may be necessary to replace organic matter. On sites where the proposed system is to be installed in natural soil, scarify the bottom and sides of the excavated disposal area with a rake. Do not use wheeled equipment on the scarified soil surface. For systems installed in fill, scarify the native soil by roto-tilling or scarifying with teeth of backhoe to a depth of at least 8 inches over the entire disposal and fill extension area to prevent glazing and to promote fill bonding. Place fill in loose layers no deeper than 8 inches and compact before placing more fill (this ensures that voids and loose pockets are eliminated to minimize the chance of leakage or differential settling). Do not use wheeled equipment on the scarified soil area until after 12 inches of fill is in place. Keep equipment off proprietary devices. Divert the surface water away from the disposal area by ditching or shallow landscape swales.
- 12) Unless noted otherwise, fill shall be gravelly coarse sand, which contains no more that 5% fines (silt and clay). Crushed stone shall be clean and free of any rock dust from the crushing process.
- 13) Do not install systems on loamy, silty, or clayey soils during wet periods since soil smearing/glazing may seal off the soil interface.
- 14) Seed all filled and disturbed surfaces with perennial grass seed, with 4" min. soil or soil amendment mix suitable for growing, then mulch with hay or equivalent material to prevent erosion. Alternatively, bark or permanent landscape mulch may be used to cover system. Woody trees or shrubs are not permitted on the disposal area or fill extensions.
- 15) If an advanced wastewater treatment unit is part of the design, the system shall be operated and maintained per manufacturer's specifications.



Fill Estimation Worksheet

Albert Frick Associates II 95A County Ro

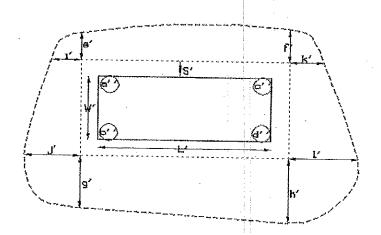
07/27/16

Gorham, Me 040 Date: 839-5563 FAX - 839-5564

E-Mail - Albert@albertfrick.Com www.albertfrick.com

Town: Portland (Peaks Island) Project owner/applicant: Paul Stenzel 0 Lyndon Avenue Portland (Peaks Island)

This worksheet is being provided as a complimentary tool to assist in estimating the approximate amount of fill required to construct the proposed system. This worksheet does not substitute for a personal visit to the site for your own estimate. These calculations are intended to serve as a check to your work. Site features beyond the model (terrain) can vary to affect model projections.



Length (L)	<u>24.00</u> feet	
Width (W)	<u>15</u> feet	
Shoulder (S)	<u>5</u> feet	
Depth of fill:		
upper left (a)	27 inches	
upper right (c)	29 inches	
lower left (b)	35 Inches	
lower right (d)	29 inches	
Fill Extension:		
left up (e)	<u>7</u> feet	
right up (f)	<u>8</u> feet	
left down (g)	<u>20</u> feet	
right down (h)	14 feet	
upper left (i)	7 feet	
lower left (j)	<u>20</u> feet	
upper right (k)	8 feet	
lower right (I)	14 feet	
1		
Cost of fill per	yard= \$ 0.00	

Body	79 cubic yards
Fill Down	29 cubic yards
Fill Up	12 cubic yards
Fill left	17 cubic yards
Fill right	13 cubic yards
Fill upleft	2 cubic yards
Fill upright	2 cubic yards
Fill dwnleft	12 cubic yards
Fill dwnright	5 cubic yards

SubTotal=	171 cubic yards
Shrinkage %=	15 %
Total Backfill	197 cubic yards

Adjusted cost of Total Backfill=

