

# SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION

State Department of Human Services  
Division of Health Engineering, Station 10  
Portland, ME 04119 FAX 603-233-2175

PROPERTY LOCATION	
City, Town, or Plantation	PORTLAND
Street or Road	54 PENRITH ROAD
Subdivision, Lot *	

PORTLAND

PERMIT # 7749 APPLICANTS COPY

Date Permit Issued:

6/28/01

\$1200.00

☐ If Double Fee Charged

L.P.I. # 0121

Local Plumbing Inspector Signature

THE WORK SPECIFIED IN THIS APPLICATION IS HEREBY AUTHORIZED TO BE INSTALLED IN ACCORDANCE WITH THE RULES. THIS PERMIT EXPIRES AFTER TWO YEARS FROM DATE ISSUED UNLESS WORK HAS COMMENCED.

OWNER/APPLICANT INFORMATION	
Name (last, first, MI)	WILLEY JOHN
Mailing Address of	BRUCE BEAN c/o WALTZ PLUMBING 536 WASHINGTON AVE. PORTLAND, ME 04103
<input type="checkbox"/> Owner <input checked="" type="checkbox"/> Applicant	
Daytime Tel. *	772-2801

Municipal Tax Map # 219A Lot # 029

## Owner or Applicant Statement

I state 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: Inspections Required

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

Signature of Owner/Applicant

Date

Local Plumbing Inspector Signature

(1st) Date Approved

(2nd) Date Approved

## PERMIT INFORMATION

<b>TYPE OF APPLICATION</b> 1. <input type="checkbox"/> First Time System 2. <input checked="" type="checkbox"/> Replacement System Type Replaced: _____ Year Installed: _____ 3. <input type="checkbox"/> Expanded System a. <input type="checkbox"/> One-time exempted b. <input type="checkbox"/> Non-exempted 4. <input type="checkbox"/> Experimental System 5. <input type="checkbox"/> Seasonal Conversion	<b>THIS APPLICATION REQUIRES</b> 1. No Rule Variance 2. <input type="checkbox"/> First Time System Variance a. <input type="checkbox"/> Local Plumbing Inspector Approval b. <input type="checkbox"/> State & Local Plumbing Inspector Approval 3. Replacement System Variance a. <input checked="" type="checkbox"/> Local Plumbing Inspector Approval b. <input type="checkbox"/> State & Local Plumbing Inspector Approval 4. <input type="checkbox"/> Minimum Lot Size Variance 5. <input type="checkbox"/> Seasonal Conversion Approval	<b>DISPOSAL SYSTEM COMPONENT(S)</b> 1. <input type="checkbox"/> Complete Non-Engineered System 2. <input type="checkbox"/> Primitive System (graywater & all toilet) 3. <input type="checkbox"/> Alternative Toilet, specify: _____ 4. <input type="checkbox"/> Non-Engineered Treatment Tank (only) 5. <input type="checkbox"/> Holding Tank, _____ Gallons 6. <input checked="" type="checkbox"/> Non-Engineered Disposal Field (only) 7. <input type="checkbox"/> Separated Laundry System 8. <input type="checkbox"/> Complete Engineered System (2000 gpd) 9. <input type="checkbox"/> Engineered Treatment Tank (only) 10. <input type="checkbox"/> Engineered Disposal field (only) 11. <input type="checkbox"/> Pre-treatment, specify: _____ 12. <input type="checkbox"/> Miscellaneous components
<b>SIZE OF PROPERTY</b> 1.0 +- <input type="checkbox"/> sq. ft. <input checked="" type="checkbox"/> acres	<b>DISPOSAL SYSTEM TO SERVE</b> 1. <input checked="" type="checkbox"/> Single Family Dwelling Unit, No. of Bedrooms: 3 2. <input type="checkbox"/> Multiple Family Dwelling, No. of Units: _____ 3. <input type="checkbox"/> Other: _____ SPECIFY _____	<b>TYPE OF WATER SUPPLY</b> 1. <input type="checkbox"/> Drilled Well 2. <input type="checkbox"/> Dug Well 3. <input type="checkbox"/> Private 4. <input checked="" type="checkbox"/> Public 5. <input type="checkbox"/> Other: _____
<b>SHORELAND ZONING</b> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		

## DESIGN DETAILS (SYSTEM LAYOUT SHOWN ON PAGE 3)

<b>EXISTING TREATMENT TANK</b> 1. <input checked="" type="checkbox"/> Concrete a. <input checked="" type="checkbox"/> Regular b. <input type="checkbox"/> Low Profile 2. <input type="checkbox"/> Plastic 3. <input type="checkbox"/> Other: _____ CAPACITY 1000 gallons CHECK BAFFLES, REPLACE IF NEEDED	<b>DISPOSAL FIELD TYPE &amp; SIZE</b> 1. <input type="checkbox"/> Stone Bed 2. <input type="checkbox"/> Stone Trench 3. <input type="checkbox"/> Proprietary Device a. <input type="checkbox"/> Cluster array c. <input checked="" type="checkbox"/> Linear b. <input checked="" type="checkbox"/> Regular d. <input type="checkbox"/> H-20 loaded 4. <input type="checkbox"/> Other: _____ SIZE 152 sq. ft. 28 ELJEN IN-DRAIN UNITS	<b>GARBAGE DISPOSAL UNIT</b> 1. <input checked="" type="checkbox"/> No 3. <input type="checkbox"/> Maybe 2. <input type="checkbox"/> Yes >> Specify one below: a. <input type="checkbox"/> Multi-compartment tank b. <input type="checkbox"/> Tank in series c. <input type="checkbox"/> Increase in tank capacity d. <input type="checkbox"/> Filter on tank outlet DISPOSAL TO BE REMOVED	<b>DESIGN FLOW</b> 270 gallons per day BASED ON: 1. <input checked="" type="checkbox"/> Table 501.1 (dwelling unit(s)) 2. <input type="checkbox"/> Table 501.2 (other facilities) SHOW CALCULATIONS - for other facilities - 3 BEDROOMS AT 90 GALLONS PER DAY EACH
<b>SOIL DATA &amp; DESIGN CLASS</b> PROFILE CONDITION DESIGN B / D / 3 AT Observation Hole # TP A Depth 7" Elevation -41" OF MOST LIMITING SOIL FACTOR	<b>DISPOSAL FIELD SIZING</b> 1. <input type="checkbox"/> Small - 2.0 sq.ft./gpd 2. <input type="checkbox"/> Medium - 2.6 sq.ft./gpd 3. <input type="checkbox"/> Medium-Large - 3.3 sq.ft./gpd 4. <input checked="" type="checkbox"/> Large - 4.1 sq.ft./gpd 5. <input type="checkbox"/> Extra-Large - 5.0 sq.ft./gpd	<b>PUMPING</b> 1. <input type="checkbox"/> Not required 2. <input type="checkbox"/> May be required 3. <input checked="" type="checkbox"/> Required >> Specify only for engineered or experimental systems: DOSE: _____ Gallons	3. <input type="checkbox"/> Section 503.0 (meter readings) ATTACH WATER-METER DATA

## SITE EVALUATOR STATEMENT

I certify that on 5/2/2001 (date) I completed a site evaluation on this property and state that the data reported is accurate and that the proposed system is in compliance with the Subsurface Wastewater Disposal Rules (10-144A CMR 241).

Albert Frick  
Site Evaluator Signature

163  
SE

6/4/2001  
Date

120.5  
in. cur

Department of Human Services  
Division of Health Engineering

Street, Road Subdivision  
54 PENRITH ROAD

Owner's Name  
JOHN WILLEY

# SITE PLAN

Scale 1" = 60 Ft.  
or as shown

SITE LOCATION PLAN  
(Attach Map from Maine  
Atlas for New System  
Variance)

• 5

54 / PENRITH ROAD

WESTBROOK ST.  
OUTER CONGRESS ST.  
(ROUTE 22)

NOTE: PROPERTY LINE INFORMATION  
PER PLAN BY E.C. JORDAN DATED  
JUNE 1964.

Observation Hole TP A ☒ Test Pit ☐ Boring  
 " Depth of Organic Horizon Above Mineral Soil

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
8 Profile	D Condition	7	

Site Evaluator Signature

Observation Hole TP B ☒ Test Pit ☐ Boring  
 \_\_\_\_\_ " Depth of Organic Horizon Above Mineral Soil

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
B <hr/> Profile	D <hr/> Condition	9 <hr/> %	

Date \_\_\_\_\_



# SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION

Department of Human Services  
Division of Health Engineering

Town, City, Plantation

Street, Road, Subdivision

Owner's Name

PORTLAND

54 PENRITH ROAD

JOHN WILLEY

## SUBSURFACE WASTEWATER DISPOSAL PLAN

SCALE 1" = 20' FT

ERP: BOTTOM OF TAN SIDING  
BELOW LARGE BAY WINDOW  
29" ABOVE GROUND LEVEL

EXISTING GRADE  
AT CORNER

STORMDRAIN  
DRAINAGE DITCH

EXISTING  
DWELLING

DISTRIBUTION  
BOX

PROPOSED  
PUMP STATION

APPROX. EXISTING  
XXX GALLON CONCRETE  
SEPTIC TANK

CROSS  
SECTION

1 1/2" TO 2" DIA  
EFFLUENT LINE BURIED  
BELOW FROST OR INSULATED  
TO PROTECT FROM FREEZING

APPROXIMATE  
TOE OF FILL

NOTE: ASSURE WATER TIGHTNESS IN SEPTIC TANK  
AND PUMP STATION TO PREVENT GROUNDWATER  
INFILTRATION.

### FILL REQUIREMENTS

Depth of Fill (Upslope)  
Depth of Fill (Downslope)

± 40" - 41"  
± 43" - 45"

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

### CONSTRUCTION ELEVATIONS

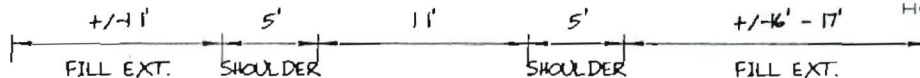
SEE  
DETAIL  
BELOW

### ELEVATION REFERENCE POINT

Location & Description: BOTTOM OF TAN  
SIDING BELOW LARGE BAY WINDOW,  
Reference Elevation (X) 29" ABOVE GRADE

### DISPOSAL AREA CROSS SECTION

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



GRAVELLY COARSE SAND

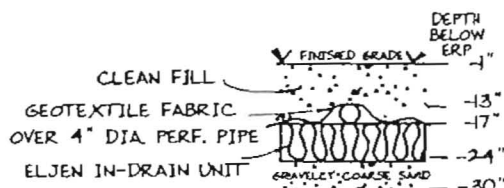
EXISTING GRADE

CAP TOE OF FILL  
WITH SANDY LOAM  
MATERIAL TO PREVENT  
WASTEWATER BREAKOUT

MAX GRD 25%

(SCARIFY / ROTOTILL)

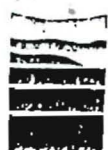
EXISTING GRADE



*Albert Frick*  
Site Evaluator Signature

163  
SE

6/4/2001  
Date



**Albert Frick Associates, Inc.**

Soil Scientists & Site Evaluators

95A County Road Cochran, Maine 04030

(207) 839-5563

PORTLAND  
TOWN

54 PENRITH ROAD  
LOCATION

JOHN WILLEY  
APPLICANT'S NAME

1) The Plumbing and Subsurface Wastewater Disposal Rules adopted by the State of Maine, Department of 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.

2) 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 laws) before installing this system or considering the property on which the system is to be installed as 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 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 solely 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.

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 should be connected in series to the proposed septic tank.

5) 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) and controlled or hazardous substances shall not be disposed of in this system.



ATTACHMENT TO SUBSURFACE WASTEWATER DISPOSAL APPLICATION

PORTLAND  
TOWN

5A PENRITH ROAD  
LOCATION

JOHN WILLEY  
APPLICANT'S NAME

- 6) 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 once every three years.
- 7) The actual 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. If the system is supplied by public water or a private service with a water meter, the water consumption per period should be divided by the number of days to calculate the average daily water consumption (water usage (cu.ft.) x 7.48 cu.ft.(gallons per cu.ft.) ÷ # of days in period).
- 8) The general minimum setbacks between a well 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 slope requirements. In gravity systems, the invert of the septic tank(s) outlet(s) shall be at least 4 inches above the invert of the distribution box outlet at the disposal area. When an effluent pump is required, provisions shall be made to make certain that surface ground water does not enter the septic tank or pump station. An alarm device warning of a pump failure shall be installed. Also, when pumping is required to 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.
- 10) On all systems, remove the vegetation, organic duff and old fill material from under the disposal area and any fill extension. 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 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 thoroughly before placing more fill (this ensures that voids and loose pockets are eliminated to minimize the chance of leakage). Do not use wheeled equipment on the scarified soil area until after 12 inches of fill is in place. Keep equipment off the chambers. Divert the surface water away from the disposal area by ditching or shallow swales.
- 11) Unless noted otherwise, fill shall be gravelly coarse sand which contains no more than 5% fines (silt and clay).
- 12) Do not install systems on loamy, silty, or clayey soils during wet periods since soil smearing/glazing may seal off the soil interface.
- 13) Seed all filled and disturbed surfaces with perennial grass seed, then mulch with hay or equivalent material to prevent erosion.



Albert Erick Associates, Inc.  
Soil Scientists & Site Evaluators  
254 County Road 1, Carleton Place, ON L9B 1P8