

# SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION

Maine Department of Human Services  
Division of Health Engineering, 10 SHS  
(207) 287-5672 Fax: (207) 287-3165

<b>PROPERTY LOCATION</b>		<b>&gt;&gt; CAUTION: PERMIT REQUIRED - ATTACH IN SPACE BELOW &lt;&lt;</b>	
City, Town, or Plantation	PORTLAND	PORTLAND PERMIT# 10004 TOWN COPY Date Permit Issued: <u>8/31/06</u> \$ <u>1100.00</u> <input type="checkbox"/> If Double Fee Charged FEE L.P.I. # <u>07321</u> <i>Jeannie Bourice</i> Local Plumbing Inspector Signature	
Street or Road	CLIFF ISLAND		
Subdivision, Lot #			
<b>OWNER/APPLICANT INFORMATION</b>			
Name (last, first, MI)	NEWIRTH, JAYNE <input checked="" type="checkbox"/> Owner <input type="checkbox"/> Applicant		
Mailing Address of Owner/Applicant	23 WINDPATH EAST WEST SPRINGFIELD, MA 01089		
Daytime Tel. #		109 BF 29 Municipal Tax Map # _____ Lot # _____	
<b>OWNER OR APPLICANT STATEMENT</b>		<b>CAUTION: INSPECTION REQUIRED</b>	
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>Jayne H. Newirth</i> 6/6/06 Signature of Owner or Applicant Date		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 Local Plumbing Inspector Signature	

<b>PERMIT INFORMATION</b>			
<b>TYPE OF APPLICATION</b>	<b>THIS APPLICATION REQUIRES</b>	<b>DISPOSAL SYSTEM COMPONENTS</b>	<b>TYPE OF WATERSUPPLY</b>
3 1. First Time System <input checked="" type="checkbox"/> 2. Replacement System Type replaced: <u>OBD</u> Year installed: _____ <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	<input 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 checked="" type="checkbox"/> 3. Replacement System Variance <input checked="" type="checkbox"/> a. Local Plumbing Inspector Approval <input type="checkbox"/> b. State & Local Plumbing Inspector Approval <input type="checkbox"/> 3 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 Disposal Area <input type="checkbox"/> 5. Holding Tank, _____ gallons <input checked="" type="checkbox"/> 6. Nonengineered 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	<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
<b>SIZE OF PROPERTY</b>	<b>DISPOSAL SYSTEM TO SERVE</b>		
33,310 ± <input checked="" type="checkbox"/> SQ. FT. <input type="checkbox"/> ACRES	<input checked="" 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)		
<b>SHORELAND ZONING</b>	Current Use <input type="checkbox"/> Seasonal <input checked="" type="checkbox"/> Year Round <input type="checkbox"/> Undeveloped		
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			

<b>DESIGN DETAILS (SYSTEM LAYOUT SHOWN ON PAGE 3)</b>			
<b>TREATMENT TANK</b>	<b>DISPOSAL FIELD TYPE 6 SIZE</b>	<b>GARBAGE DISPOSAL UNIT</b>	<b>DESIGN FLOW</b>
<input checked="" type="checkbox"/> 1. Concrete <input type="checkbox"/> a. Regular <input type="checkbox"/> b. Low Profile <input checked="" type="checkbox"/> 2. Plastic <input type="checkbox"/> 3. Other: <u>EXISTING</u> CAPACITY: _____ GAL.	<input type="checkbox"/> 1. Stone Bed <input type="checkbox"/> 2. Stone Trench <input checked="" type="checkbox"/> 3. Proprietary Device <input type="checkbox"/> a. cluster array <input checked="" type="checkbox"/> c. Linear <input checked="" type="checkbox"/> b. regular load <input type="checkbox"/> d. H-20 load <input type="checkbox"/> 4. Other: _____ SIZE: <u>900</u> <input checked="" type="checkbox"/> sq. ft. <input type="checkbox"/> 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	<u>270</u> gallons per day BASED ON: <input checked="" type="checkbox"/> 1. Table 501.1 (dwelling unit(s)) <input type="checkbox"/> 2. Table 501.2 (other facilities) SHOW CALCULATIONS for other facilities
<b>SOIL DATA 6 DESIGN CLASS</b>	<b>DISPOSAL FIELD SIZING</b>	<b>EFFLUENT/EJECTOR PUMP</b>	<b>LATITUDE AND LONGITUDE</b>
PROFILE CONDITION DESIGN <u>2 / All / 1</u> at Observation Hole # <u>1</u> Depth <u>24</u> " of Most Limiting Soil Factor	<input type="checkbox"/> 1. Small---2.0 sq. ft. / gpd <input type="checkbox"/> 2. Medium---2.6 sq. ft. / gpd <input checked="" type="checkbox"/> 3. Medium---Large 3.3 sq. ft. / gpd <input type="checkbox"/> 4. Large---4.1 sq. R. / gpd <input type="checkbox"/> 5. Extra Large---5.0 sq. ft. / gpd	<input type="checkbox"/> 1. Not Required <input type="checkbox"/> 2. May Be Required <input checked="" type="checkbox"/> 3. Required Specify only for engineered systems: DOSE: _____ gallons	ATTACH WATER METER DATA at center of disposal area Lat. <u>43</u> d <u>11</u> m <u>48</u> s Lon. <u>70</u> d <u>06</u> m <u>14</u> s if g.p.s. state margin of error: <u>10</u> ±

<b>SITE EVALUATOR STATEMENT</b>		
I certify that on <u>5/10/06</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	267 SE #	5/23/06 Date
ALAN L. BURNELL Site Evaluator Name Printed	781-5242 Telephone Number	ABURNELL@PINKHAMANDGREER.COM E-mail Address
Note: Changes to or deviations from the design should be confirmed with the Site Evaluator.		

REPLACEMENT SYSTEM VARIANCE REQUEST

THE LIMITATIONS OF THE REPLACEMENT SYSTEM VARIANCE REQUEST

This form shall be attached to an application (HHE-ZOO) for the proposed replacement system which requires a variance to the Rules. The LPI shall review the Replacement System Variance Request and HHE-ZOO and may approve the Request if all of the following requirements can be met, and the variance(s) requested fall within the limits of LPI's authority.

- 1. The proposed design meets the definition of a Replacement System as defined in the Rules (Sec. 2006)
2. There will be no change in use of the structure except as authorized for minor expansions outside the shoreland zone of major waterbodies/courses.
3. The replacement system is determined by the Site Evaluator and LPI to be the most practical method to treat and dispose of the wastewater.
4. The BOD5 plus S.S. content of the wastewater is no greater than that of normal domestic effluent.

GENERAL INFORMATION
Town of X Portland Maine
Permit No. 10004
Date Permit Issued
Property Owner's Name: Jayne Newirth
Tel. No.:
System's Location: Cliff Island
Property Owner's Address: 23 Windpath East
(if different from above) West Springfield, Mass 01089

SPECIFIC INSTRUCTIONS TO THE:
LOCAL PLUMBING INSPECTOR (LPI):
If any of the Variances exceed your approval authority and/or do not meet all of the requirements listed under the Limitations Section above, then you are to send this Replacement System Variance Request, along with the Application, to the Department for review and approval consideration before issuing a Permit. (See reverse side for Comments Section and your signature.)
SITE EVALUATOR:
If after completing the Application, you find that a variance for the proposed replacement system is needed, complete the Replacement Variance Request with your signature on reverse side of form.
PROPERTY OWNER:
If has been determined by the Site Evaluator that a variance to the Rules is required for the proposed replacement system. This variance request is due to physical limitations of the site and/or soil conditions. Both the Site Evaluator and the LPI have considered the site/soil restrictions and have concluded that a replacement system in total compliance with the Rules is not possible.

PROPERTY OWNER
I understand that the proposed system requires a variance to the Rules. Should the proposed system malfunction, I release all 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: Jayne A Newirth
Date: 6/6/06

LOCAL PLUMBING INSPECTOR
I, JEANIE BOURKE, the undersigned, have visited the above property and have determined to the best of my knowledge that it cannot be installed in compliance with the Rules. As a result of my review of the Replacement Variance Request the Application, I (check and complete either a or b):
X a. (X) approve, ( ) disapprove the variance request based on my authority to grant this variance. Note: If the LPI does not give his approval, he shall list his reasons for denial in Comments Section below and return to the applicant.
-OR-
( ) b. find that one or more of the requested Variances exceeds my approval authority as LPI. I ( ) recommend, ( ) do not recommend the Department's approval of the variances. Note: If the LPI does not recommend the Department's approval, she shall state his reasons in Comments Section below as to why the proposed replacement system is not being recommended.
Comments:
LPI Signature: Jeanie Bourke
Date: 8/31/06

Replacement System Variance Request

		LIMIT OF LPI'S					VARIANCE		
<b>SOILS</b>									
Ground Water Table		to 7"					inches		
Restrictive Layer		to 7"					inches		
Bedrock		to 12"					inches		
		Disposal Fields (total design flow)			Septic Tanks (total design flow)			Disposal Fields	Septic Tanks
From	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			
Owner's wells	100 down to 60 ft [a]	200 down to 100 ft	300 down to 150 ft	100 down to 50 ft [b]	100 down to 50 ft	100 down to 50 ft			
Neighboring wells	100 down to 60 ft [f]	200 down to 120 ft [f]	300 down to 180 ft [f]	100 down to 50 ft [f]	100 down to 75 ft [f]	100 down to 75 ft [f]			
Water supply line	10 ft	20 ft	25 ft [h]	10 ft	10 ft	10 ft [h]			
Water course, major - for replacements only, see Table 400.4 for major expansions	100 down to 60 ft [d]	200 down to 120 ft [d]	300 down to 180 ft [d]	100 down to 50 ft [b]	100 down to 50 ft	100 down to 50 ft	70		
Water course, minor	50 down to 25 ft [e]	100 down to 50 ft [e]	150 down to 75 ft [e]	50 down to 25 ft [e]	50 down to 25 ft [e]	50 down to 25 ft [e]			
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			
Edge of fill extension - Coastal streams	25 ft [e]	25 ft [e]	25 ft [e]	25 ft [e]	25 ft [e]	25 ft [e]			
Slopes greater than 3:1	10 ft [g]	18 ft [g]	25 ft [g]	N/A	N/A	N/A			
No full basement [e.g. slab, frost wall, columns]	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]	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 [c]	18 down to 9 ft [c]	20 down to 10 ft [c]	10 down to 4 ft [c]	15 down to 7 ft [c]	20 down to 10 ft [c]			
Burial sites or graveyards, measured from the down toe of the fill extension	25 ft	25 ft	25 ft	25 ft	25 ft	25 ft			

**OTHER**

1. Fill extension Grade - to 3:1

[h] see Section 1402 ID for special procedures when these minimum setbacks cannot be achieved

*[Signature]* #267  
 SITE EVALUATOR'S SIGNATURE

*5/23/06*  
 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

**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

PORTLAND

CLIFF ISLAND

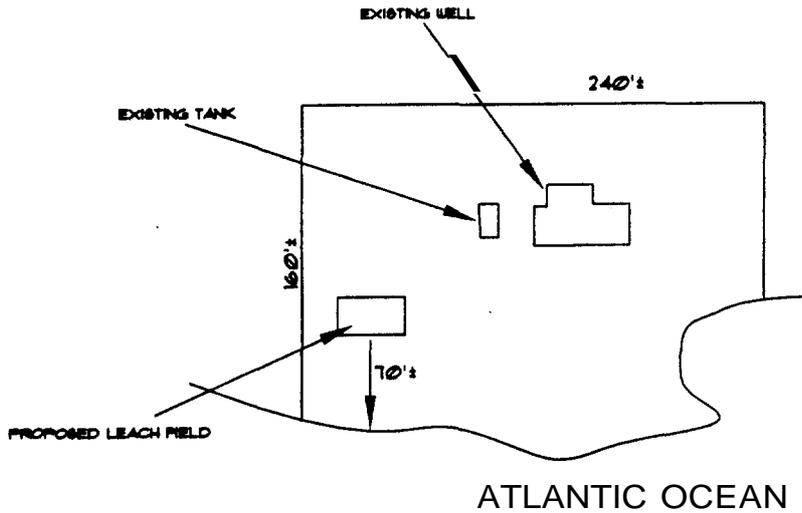
JAYNE NEWIRTH

SITE PLAN

Scale 1" = 50 ft. or as shown

SITE LOCATION PLAN  
 (map from Maine Atlas  
 recommended)

SEE ATTACHED



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

Observation Hole # 1  Test Pit  Boring  
4 " Depth of Organic Horizon Above Mineral Soil

Observation Hole \_\_\_\_\_  Test Pit  Boring  
 " Depth of Organic Horizon Above Mineral Soil

Depth Below Mineral Soil Surface (inches)	Texture	Consistency	Color	Mottling
0			OLIVE GRAY	
10	SANDY LOAM	FRIABLE	YEL BROWN	NONE
20				
30				
30	BEDROCK AT 24"			
40				
50				

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

Soil Classification <u>2</u> <u>AIII</u> Profile Condition	Slope <u>2</u> %	Limiting Factor <u>24</u> "	<input type="checkbox"/> Ground Water <input type="checkbox"/> Restrictive Layer <input checked="" type="checkbox"/> Bedrock <input type="checkbox"/> Pit Depth
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Soil Classification _____ Profile Condition	Slope _____%	Limiting Factor ____"	<input type="checkbox"/> Ground Water <input type="checkbox"/> Restrictive Layer <input type="checkbox"/> Bedrock <input type="checkbox"/> Pit Depth
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*[Handwritten Signature]*  
 Site Evaluator Signature

267  
 SE #

5/23/06  
 Date

**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

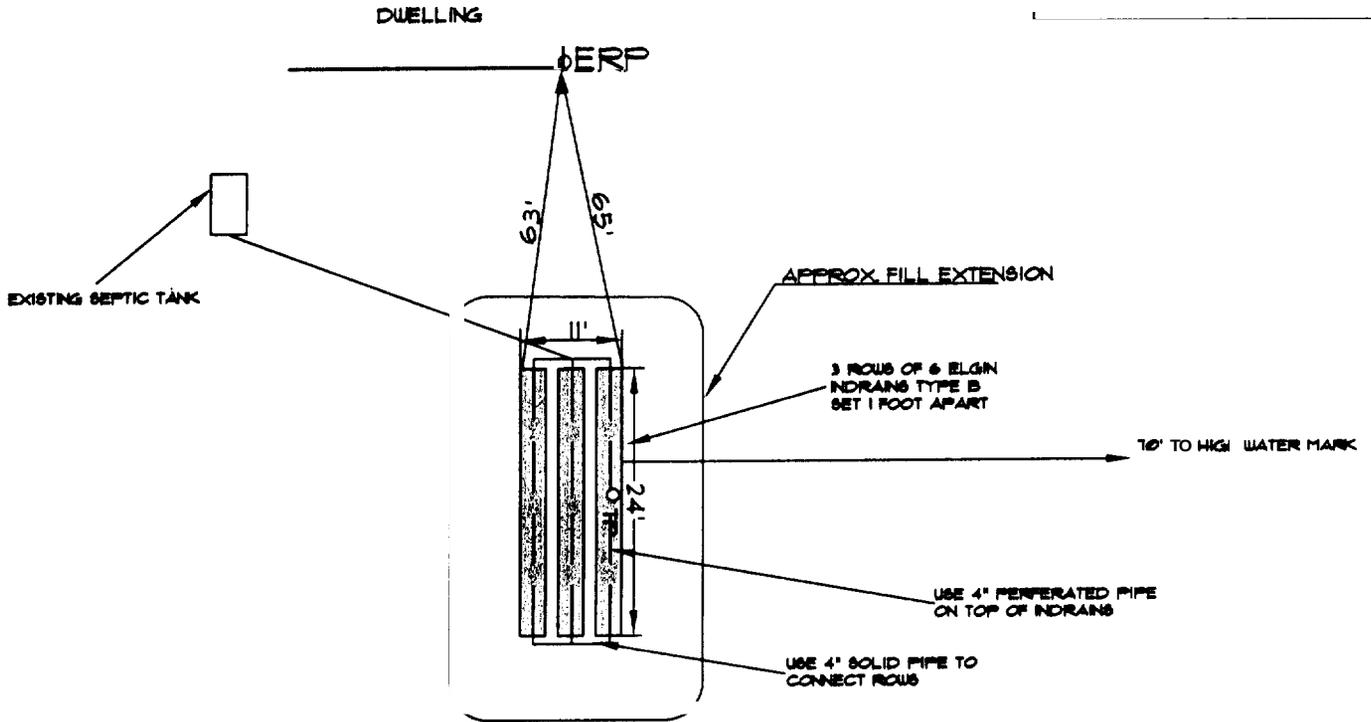
PORTLAND

CLIFF ISLAND

JAYNE NEWIRTH

**SUBSURFACE WASTEWATER DISPOSAL PLAN**

SCALE: 1" = 20 FT.



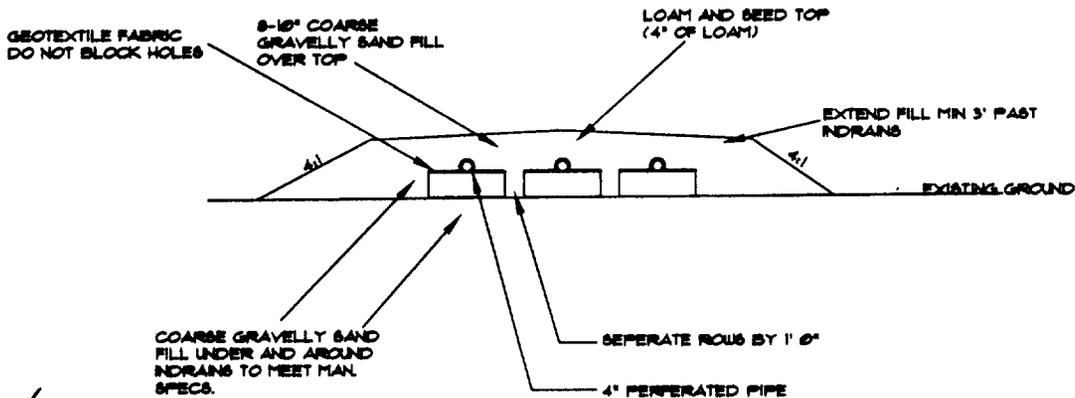
FILL REQUIREMENTS		CONSTRUCTION ELEVATIONS		ELEVATION REFERENCE POINT	
Depth of Fill (Upslope)	24"	Finished Grade Elevation	-30	Location & Description	SIDING ON CORNER OF HOUSE
Depth of Fill (Downslope)	24"	Top of Distribution Pipe or Proprietary Device	-43	Reference Elevation:	0"
		Bottom of Disposal Area	-54		

**DISPOSAL AREA CROSS SECTION**

Scale

Horizontal 1" = 10' ft

Vertical 1" = 5' A



*[Handwritten Signature]*

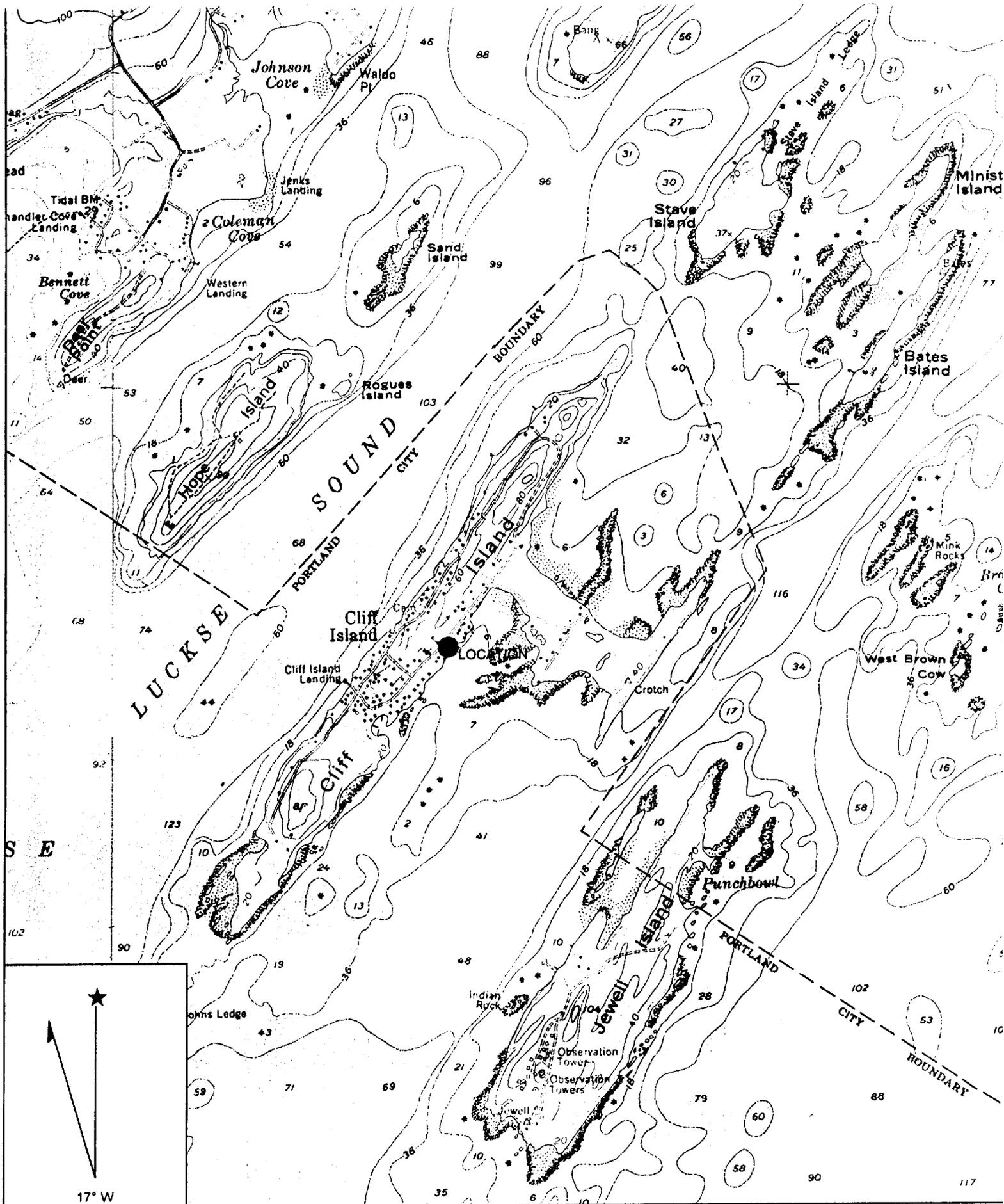
Site Evaluator Signature

267

SE #

5/23/06

Date



Name: SOUTH HARPSWELL  
 Date: 5/25/2006  
 Scale: 1 inch equals 2000 feet

Location: 043° 41' 54.1" N 070° 06' 02.4" W  
 Caption: JAYNE NEWIRTH  
 CLIFF ISLAND

# Top Ten Tank Tips

1. Pump your septic tank every two to five years, depending how heavily the system is used. Insist that the pumper clean your septic tank through the manhole in the center of the top of your septic tank, rather than the inspection ports above the inlet and outlet baffles.

2. If you use a garbage grinder (a.k.a. "dispose-all"), pump your tank every year. Or, better yet, remove the garbage grinder and compost your kitchen scraps. Garbage grinder use leads to buildups of grease from meat scraps and bones, and insoluble vegetable solids such as cellulose and lignin.

3. Keep kitchen grease, such as bacon fat and deep fryer oil, out of your septic system. It is not broken down easily by your system, can clog your drain field, and can not be dissolved by any readily available solvent that is legal to introduce to groundwater.

4. Space out laundry loads over the course of the week and wash only full loads. The average load of laundry uses 47 gallons of water. One load per day rather than 7 loads on Saturday makes a big difference to your septic system.

Also, front loading washers use less water than top loading machines.

5. Install low usage water fixtures. By installing low water usage showerheads (2.5 gallons/minute), toilets (1.6 gallons), dishwashers (5.3 gallons) and washing machines (14 gallons) an average family can reduce the amount of water entering the septic system by 20,000 gallons per year! Low flow showerheads and toilets can be purchased at local lumberyards. Water saving dishwashers and washing machines can be purchased at better appliance stores.

6. Install a septic tank outlet filter in your tank. These generally sell for \$100 to \$200 depending upon brand and model. They catch small floating particles and lightweight solids, such as hair, before they can make it out to the disposal area and cause trouble. Some models are also designed to capture suspended grease.

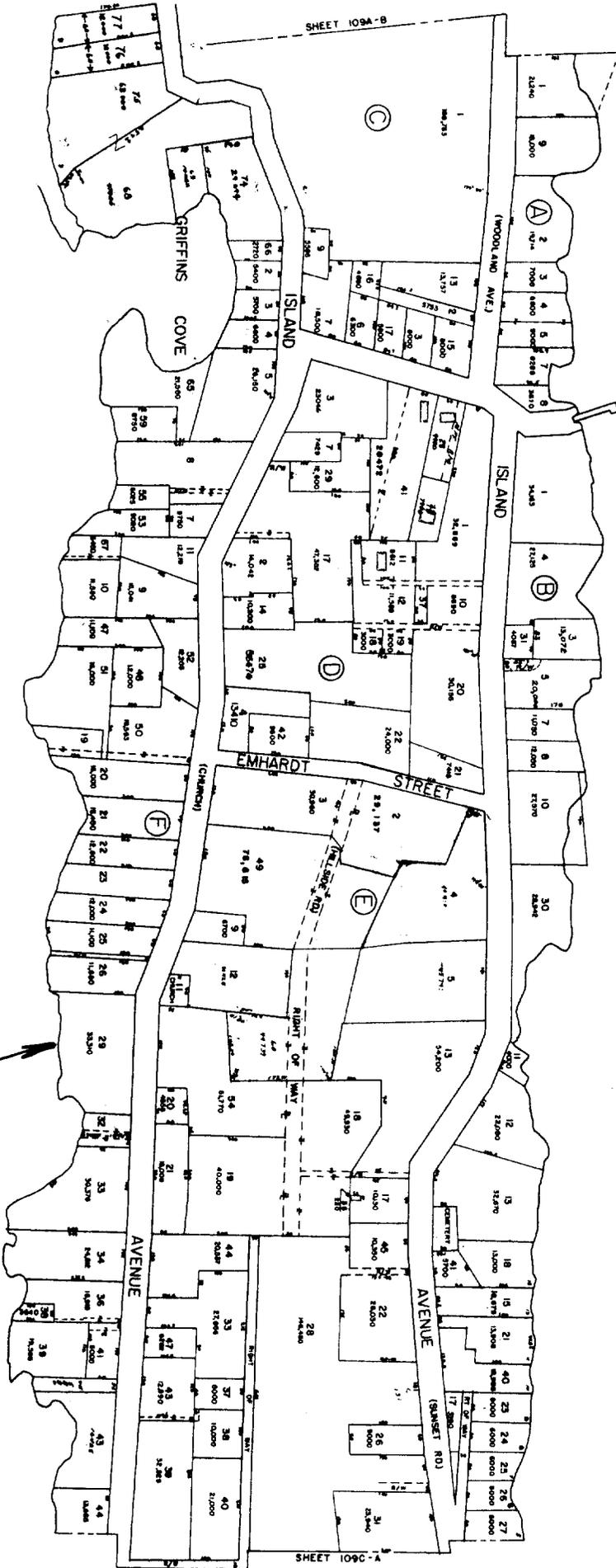
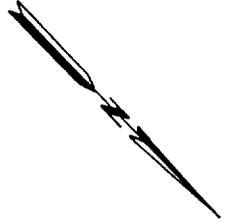
7. Use liquid laundry detergent. Powered laundry detergents use clay as a "carrier." This clay can hasten the buildup of solids in the septic tank and potentially plug the disposal area.

8. Minimize the amount of household cleaners (bleach, harsh cleaners) and similar potentially toxic

substances entering the septic system. Pump your septic tank every 6 to 12 months if you do lots of painting or staining, as with a home remodel or renovation, and you wash the tools in a sink or basin which drains to the septic system. Note: some substances are not allowed to be introduced into septic systems or groundwater tables. If in doubt, contact the Local Plumbing Inspector for more information.

9. Do not use disinfecting automatic toilet bowl cleaners, such as those containing bleach or acid compounds. The continuous slow release of these chemicals into the septic system kills the micro-organisms which treat your waste water.

10. You do not need to put special additives into your septic system. In fact, some can do more harm than good. Those which advertise that they will remove solids from your tank, usually do. The problem is that the solids exit the tank and end up in the disposal field. Once there, the solids seal off the disposal area, and the system malfunctions. Also, although it hurts nothing, it is not necessary, to "seed" a new system with yeast, horse manure, and so forth. Normal human waste contains enough bacteria for the septic tank, and other microbes are already present in the soil and stones of the disposal area.



Jagpe  
NEWPORT

N<sup>o</sup> 109-B  
CLIFF ISLAND



109 B F29

380 U.S. Route One  
Falmouth, Maine 04105  
Tel: (207) 781-5242  
Fax: (207) 781-4245

FAX MEMORANDUM

TO: M. NUGENT

FAX #: 252-8090

FROM:

DATE: 8/23/06

RE: NEWITH - CLIFF ISLAND

109 B F029

FILE:

# of Pages (including this ana):

SORRY FOR THE DELAY - I HAVE HAD SOME PHYSICAL PROBLEMS -

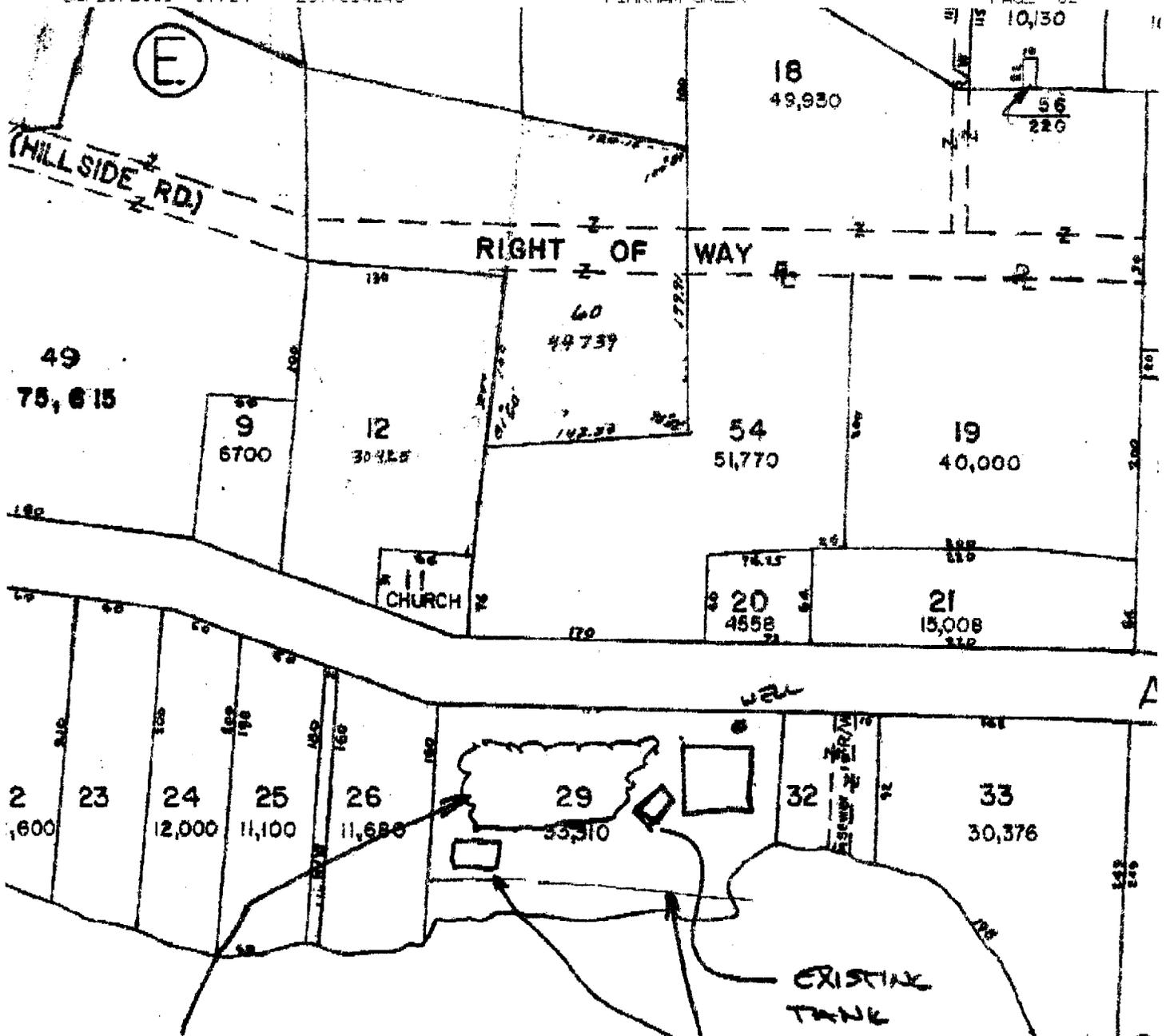
ATTACHED IS JANE NEWITH LOT WITH LEDGE OUTCROP DELINEATED - THIS IS LEDGE AT OR NEAR THE SURFACE I 6" SOIL DEPTH THERE IS A SMALL TERRACE WHERE I HAVE DESIGNED THE SYSTEM THAT HAS THE ONLY SIGNIFICANT AMOUNT OF SOIL ON THE LOT.

THANKS

ARAX.

LSO #267

Burnell



EDGE OF LEDGE OUTCROP  
 TOP OF LEDGE ABOUT 600 TO 6" GRASS SURFACE  
 JANE NEWITH  
 CLIFF ISLAND  
 1" = 100'  
 PROPOSED LEACH FLD.  
 EXISTING TANK  
 APPROX. EDGE OF STEEP BANK

Can't get setback, needs A 29' variance  
 6" in depth of ledge