

SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION

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

PROPERTY LOCATION		>> CAUTION: PERMIT REQUIRED - ATTACH IN SPACE BELOW <<	
City, Town, or Plantation	PORTLAND	109 65007	
Street or Road	CLIFF ISLAND	PORTLAND	PERMIT # 9913
Subdivision, Lot #		TOWN COPY	
OWNER/APPLICANT INFORMATION		Date Permit Issued: <u>6/10/06</u> \$ <u>100.00</u> <input type="checkbox"/> If Double Fee Charged Local Plumbing Inspector Signature: <u>[Signature]</u> L.P.I. # <u>0640</u>	
Name (last, first, MI) CUSHING, MADELINE <input checked="" type="checkbox"/> Owner <input type="checkbox"/> Applicant			
Mailing Address of Owner/Applicant	BOX 39 CLIFF ISLAND, ME 04019		
Daytime Tel. #	Municipal Tax Map # _____ Lot # _____		
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 and/or Local Plumbing Inspector to deny a Permit. <u>Madeline Cushing</u> <u>6/1/06</u> 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. <u>#2006 6007</u> Local Plumbing Inspector Signature (1st) date approved	

PERMIT INFORMATION		
TYPE OF APPLICATION <input type="checkbox"/> 1. First Time System <input checked="" type="checkbox"/> 2. Replacement System Type replaced: <u>QBD</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	THIS APPLICATION REQUIRES <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"/> 4. Minimum Lot Size Variance <input type="checkbox"/> 5. Seasonal Conversion Permit	DISPOSAL SYSTEM COMPONENTS <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. Non-engineered 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
SIZE OF PROPERTY <u>6025</u> <input checked="" type="checkbox"/> SQ. FT. <input type="checkbox"/> ACRES	DISPOSAL SYSTEM TO SERVE <input checked="" type="checkbox"/> 1. Single Family Dwelling Unit, No. of Bedrooms: <u>10</u> <input type="checkbox"/> 2. Multiple Family Dwelling, No. of Units: _____ <input type="checkbox"/> 3. Other: _____ (specify) Current Use <input type="checkbox"/> Seasonal <input checked="" type="checkbox"/> Year Round <input type="checkbox"/> Undeveloped	TYPE OF WATER SUPPLY <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

DESIGN DETAILS (SYSTEM LAYOUT SHOWN ON PAGE 3)			
TREATMENT TANK <input 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.	DISPOSAL FIELD TYPE & SIZE <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>3250</u> <input checked="" type="checkbox"/> sq. ft. <input type="checkbox"/> lin. ft.	GARBAGE DISPOSAL UNIT <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	DESIGN FLOW <u>900</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
SOIL DATA & DESIGN CLASS PROFILE <u>2</u> / <u>AIII</u> / <u>1</u> at Observation Hole # <u>1</u> Depth <u>24</u> " of Most Limiting Soil Factor	DISPOSAL FIELD SIZING <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. ft. / gpd <input type="checkbox"/> 5. Extra Large--5.0 sq. ft. / gpd	EFFLUENT/EJECTOR PUMP <input type="checkbox"/> 1. Not Required <input checked="" type="checkbox"/> 2. May Be Required <input type="checkbox"/> 3. Required Specify only for engineered systems: DOSE: _____ gallons	<input type="checkbox"/> 3. Section 503.0 (meter readings) ATTACH WATER METER DATA LATITUDE AND LONGITUDE at center of disposal area Lat. <u>43</u> d <u>41</u> m <u>38</u> s Lon. <u>70</u> d <u>06</u> m <u>25</u> s If g.p.s. state margin of error <u>10</u> ±

SITE EVALUATOR STATEMENT		
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 <u>[Signature]</u>	SE # <u>267</u>	Date <u>5/23/06</u>
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. HHE-200 Rev. 8/01

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

MADELINE CUSHING

SITE PLAN

Scale 1" = 50 ft. or as shown

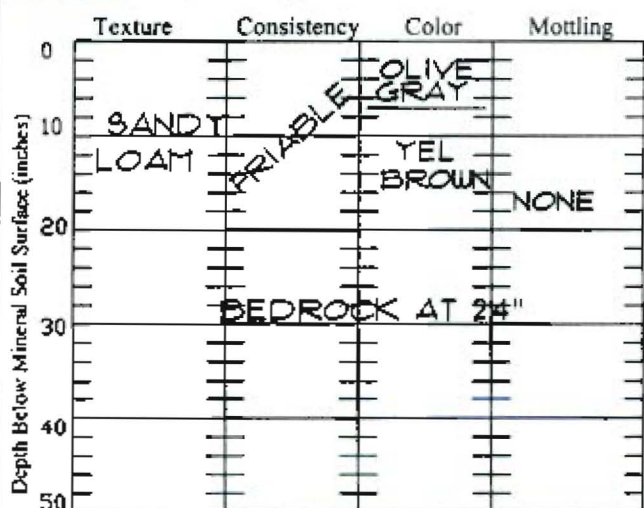
SITE LOCATION PLAN
 (map from Maine Atlas
 recommended)

SEE ATTACHED

SEE ATTACHED

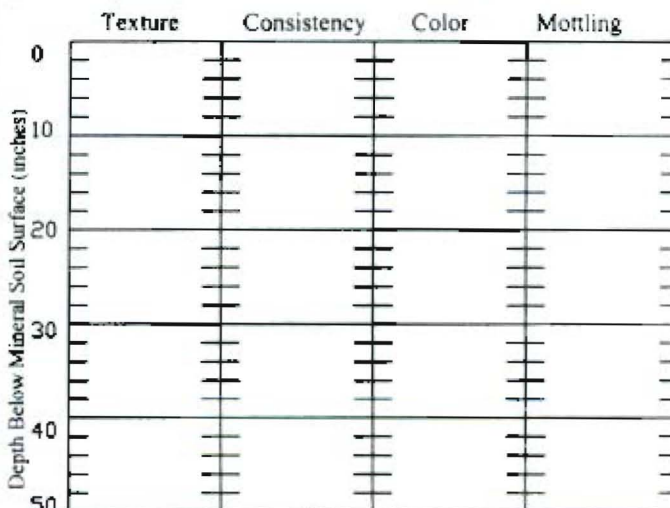
SOIL DESCRIPTION AND CLASSIFICATION (Location of Observation Holes Shown Above)

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



Soil Classification 2 AIII Profile Condition	Slope 2 %	Limiting Factor 24	<input type="checkbox"/> Ground Water <input type="checkbox"/> Restrictive Layer <input checked="" type="checkbox"/> Bedrock <input type="checkbox"/> Pit Depth
--	--------------	-----------------------	--

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

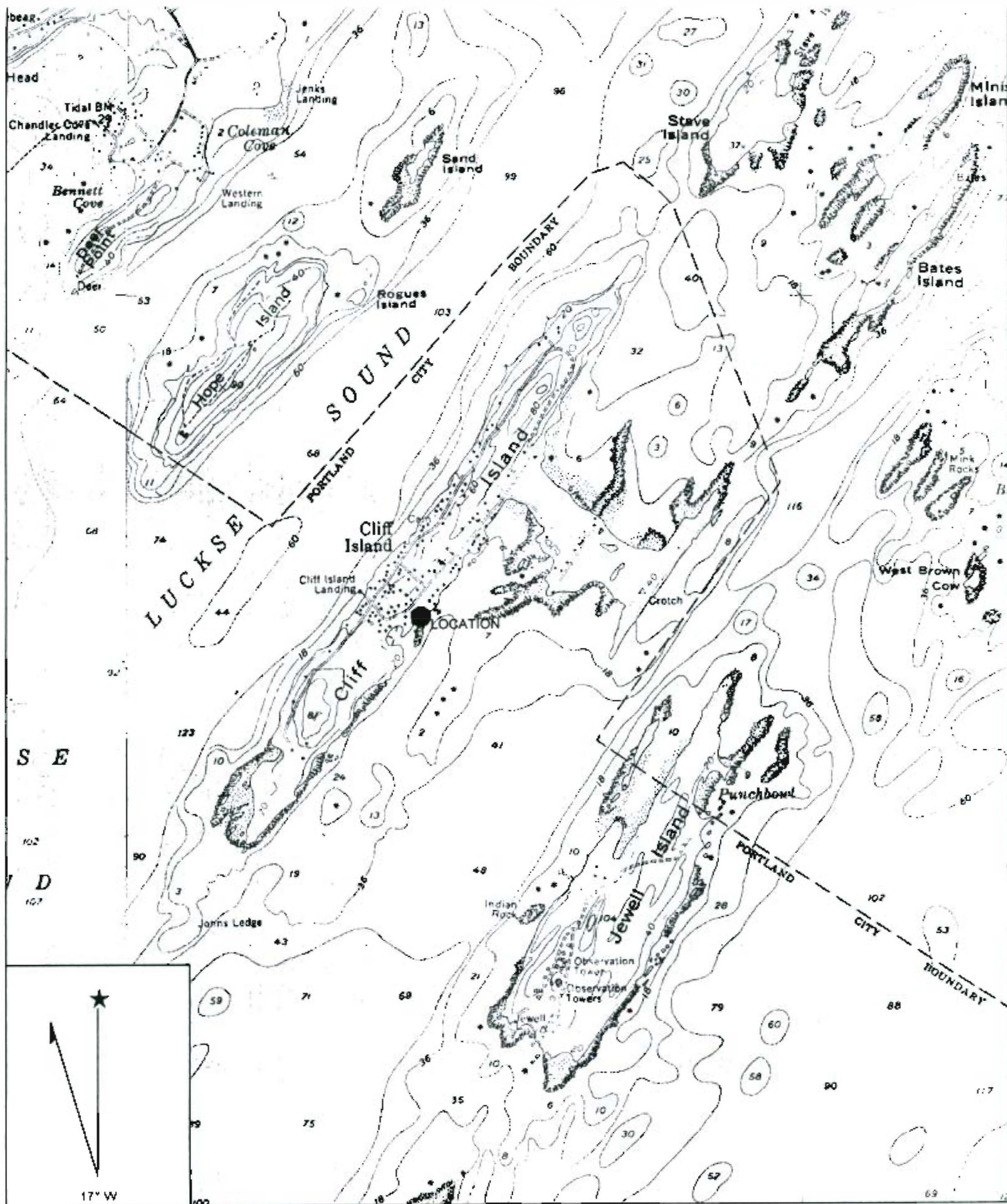


Soil Classification _____ Profile Condition	Slope ____ %	Limiting Factor ____	<input type="checkbox"/> Ground Water <input type="checkbox"/> Restrictive Layer <input type="checkbox"/> Bedrock <input type="checkbox"/> Pit Depth
---	-----------------	-------------------------	---

[Handwritten Signature]
 Site Evaluator Signature

267
 SE #

5/23/06
 Date



Name: SOUTH HARPSWELL
 Date: 5/26/2006
 Scale: 1 inch equals 2000 feet

Location: 043° 41' 39.0" N 070° 06' 05.4" W
 Caption: SWIFT, G. GRIFFIN, CUSHING AND J. GRIFFIN
 CLIFF ISLAND, ME

PROPOSED 12' ACCESS EASEMENT

Wellhead / Sign

EXISTING REMOVED WELL

LAND OF
MADEIRA
CUSHING

CITY OF PORTLAND
DRAINAGE PIPE

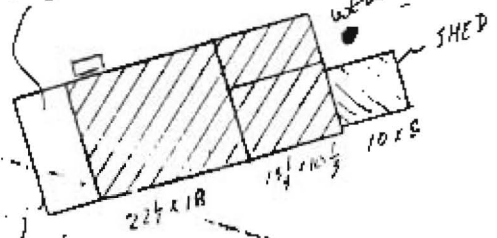
AREA FOR
65 EFT IN
INDICATING
5 ROWS OF 13

12.00'
12.00'
S 89° 03' 10" W
AP 1/4 104

NOW OR FORMERLY
WORK
DOROTHY B.
CCRD
3787-018

LAND OF
GARDEN BRIT

DECK
8x18



WELL

79' to Seale

1" = 20'

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

OWNERS WELL AT 10'

CLIFF ISLAND

MADELINE CUSHING

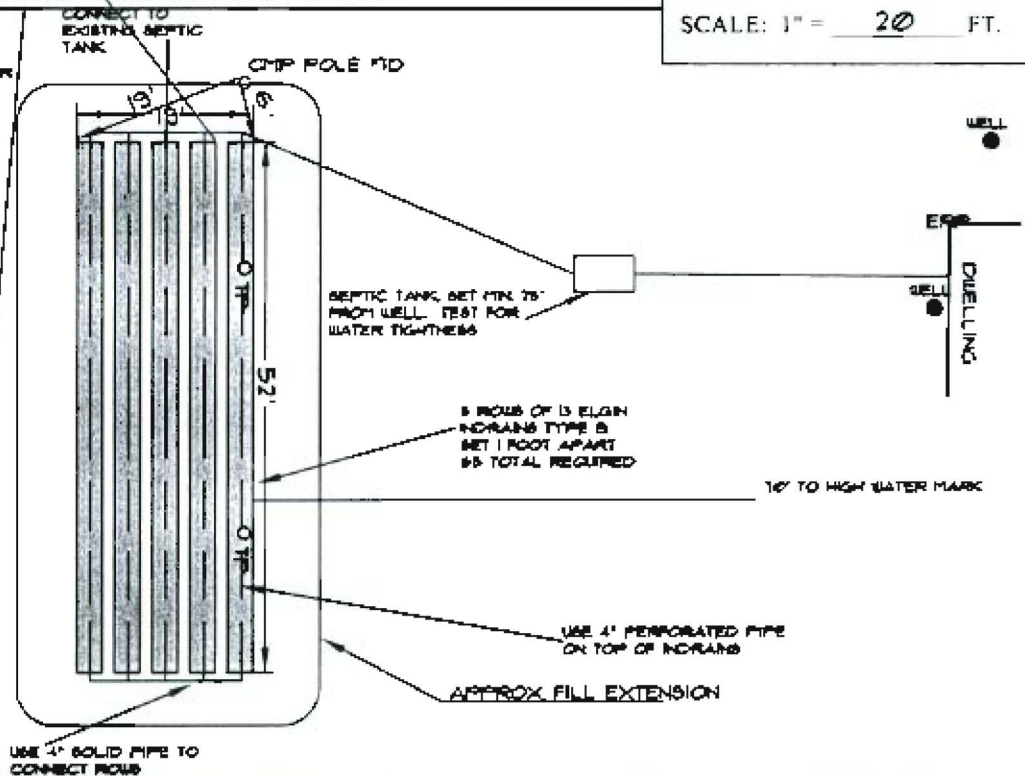
SUBSURFACE WASTEWATER DISPOSAL PLAN

SCALE: 1" = 20 FT.

THIS FIELD WILL SERVE THE FOLLOWING FOUR FAMILIES:

NATHALIEEN SUPT MAP 1038-LOT F-3
 GORDON GRIFFIN MAP 1038-LOT F-50
 MADALENE CUSHING MAP 1038-LOT F-1
 JAMES GRIFFIN MAP 1038-LOT F-5

CITY OF PORTLAND
 DRAINAGE PIPE



FILL REQUIREMENTS

CONSTRUCTION ELEVATIONS

ELEVATION REFERENCE POINT

Depth of Fill (Upslope) 24"
 Depth of Fill (Downslope) 24"

Finished Grade Elevation -25
 Top of Distribution Pipe or Proprietary Device -38
 Bottom of Disposal Area -48

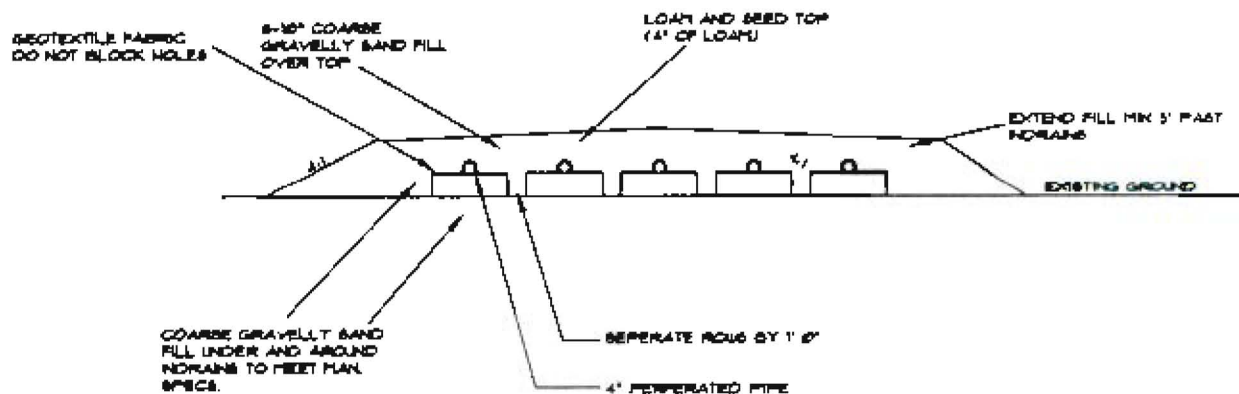
Location & Description: SIDING ON SUPT HOUSE
 Reference Elevation: 0"

DISPOSAL AREA CROSS SECTION

Scale

Horizontal 1" = 10' ft

Vertical 1" = 5' ft



John R. Butler

Site Evaluator Signature

267

SE #

5/23/06

Date

REPLACEMENT SYSTEM VARIANCE REQUEST

THE LIMITATIONS OF THE REPLACEMENT SYSTEM VARIANCE REQUEST

This form shall be attached to an application (HHE-200) for the proposed replacement system which requires a variance to the Rules. The LPI shall review the Replacement System Variance Request and HHE-200 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 <u>Portland</u>
Permit No. _____	Date Permit Issued _____
Property Owner's Name: <u>Madeline Cushing</u>	Tel. No.: _____
System's Location: <u>Cliff Island</u>	
Property Owner's Address: _____	
(if different from above) _____	

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 it 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 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.

Madeline Cushing
SIGNATURE OF OWNER

6/1/06
DATE

LOCAL PLUMBING INSPECTOR

I, MIKE NUGENT, the undersigned, 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, and my on-site investigation, I (check and complete either a or b):

a. (I 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:

REPLACES OVER BOARD DISCHARGE

Mike Nugent
LPI SIGNATURE

6/1/06
DATE

Replacement System Variance Request

VARIANCE CATEGORY	LIMIT OF LPI'S APPROVAL AUTHORITY						VARIANCE REQUESTED TO:	
	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
SOILS								
Soil Profile	Ground Water Table			to 7"			inches	
Soil Condition	Restrictive Layer			to 7"			inches	
from HHE-200	Bedrock			to 12"			inches	
SETBACK DISTANCES (in feet)								
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	70	
Neighbor's 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]	60	
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		
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 wetlands, special freshwater wetlands, great ponds, rivers, 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								
2.								
3.								

Footnotes: [a.] Single-family well setbacks may be reduced as prescribed in Section 701.2

[b.] This distance may be reduced to 25 feet, if the septic or holding tank is tested in the plumbing inspector's presence and shown to be watertight or of monolithic construction.

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

[d.] Additional setbacks may be required by local Shoreland zoning.

[e.] Natural Resource Protection Act requires a 25 feet setback, on slopes of less than 20%, from the edge of soil disturbance and 100 feet on slopes greater than 20%. See Chapter 15.

[f.] May not be any closer to neighbors well than the existing disposal field or septic tank unless written permission is granted by the neighbor. This setback may be reduced for single family houses with Department approval. See Section 702.3.

[g.] The fill extension shall reach the existing ground before the 3:1 slope or within 100 feet of the disposal field.

[h.] See Section 1402.10 for special procedures when these minimum setbacks cannot be achieved.


 SITE EVALUATOR'S SIGNATURE

5/23/06
 DATE

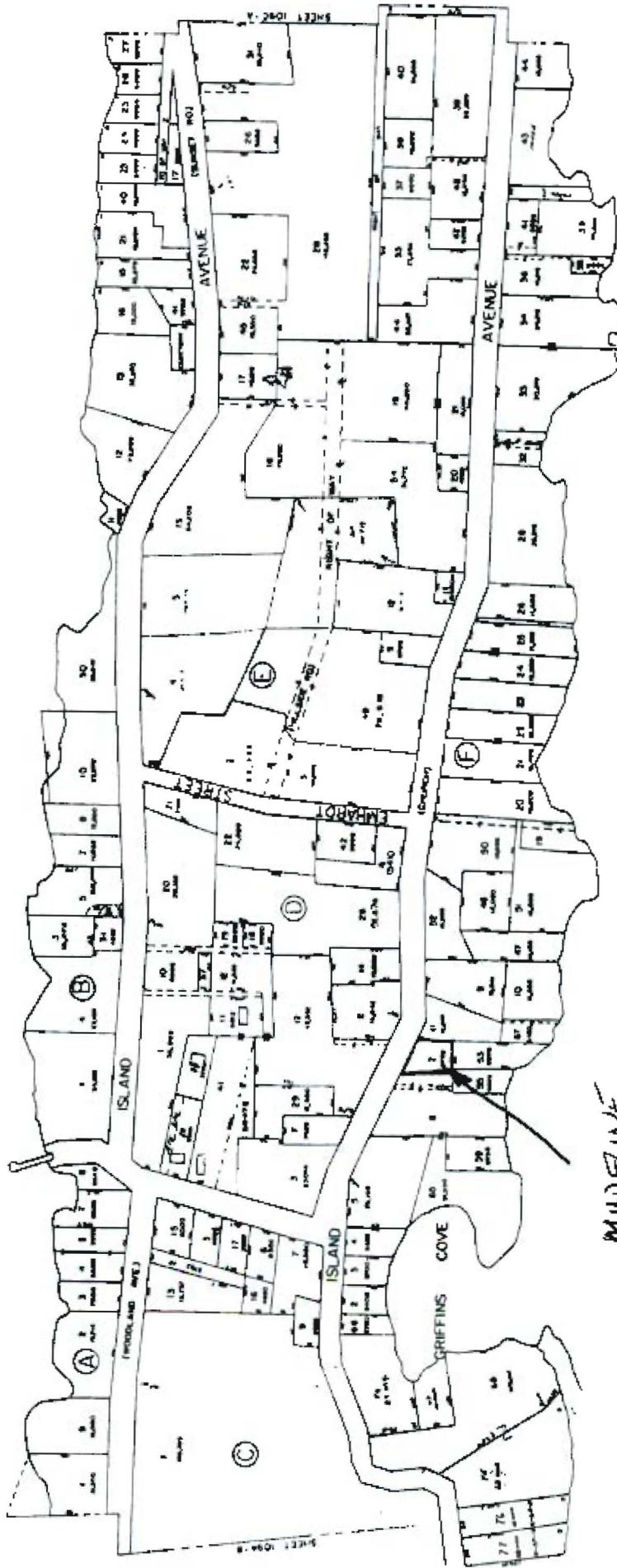
FOR USE BY THE DEPARTMENT ONLY

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.

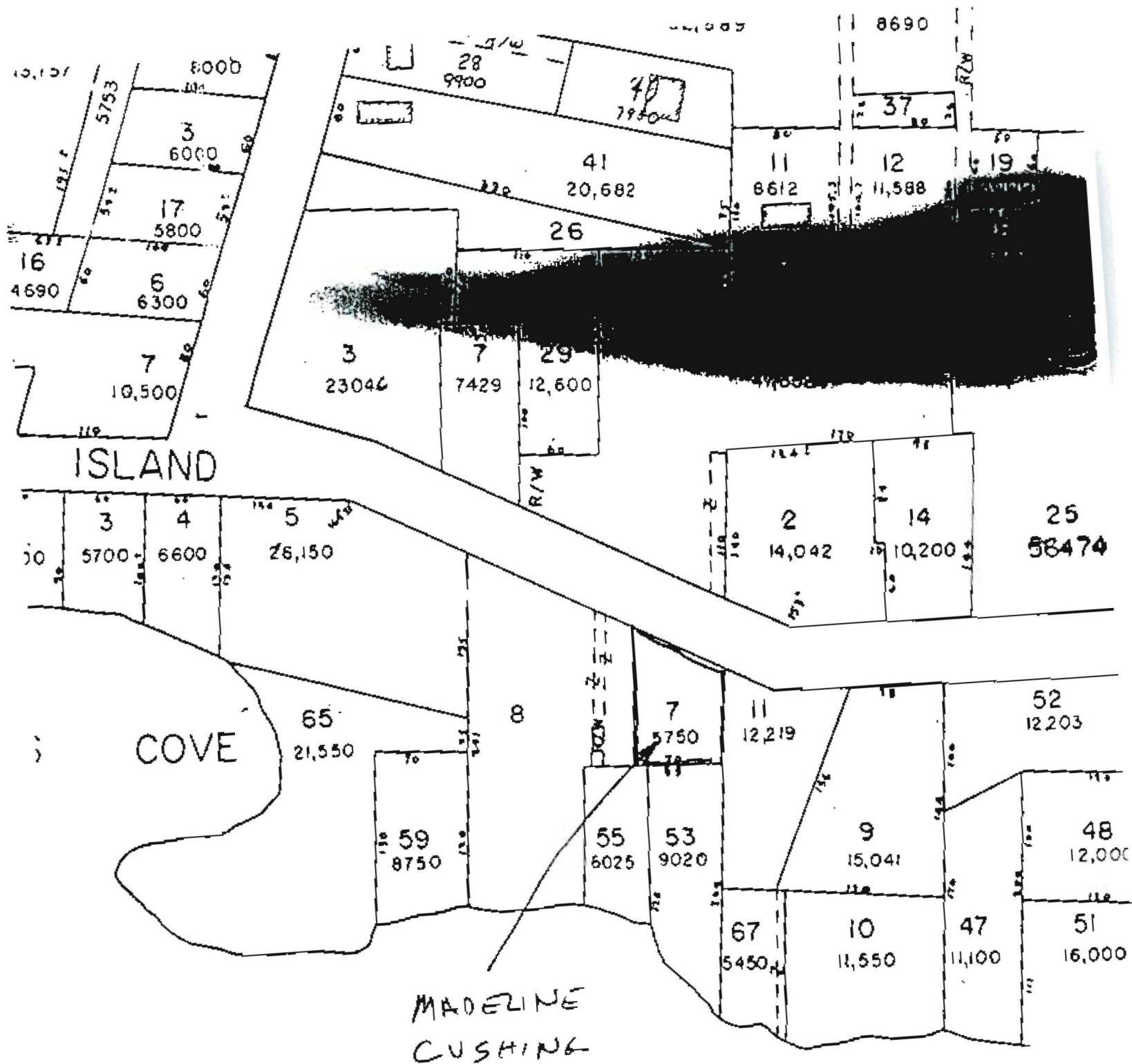
 SIGNATURE OF THE DEPARTMENT

 DATE

No 109-B
CLIFF ISLAND



MUDELINE
CUSHING



WELL SETBACK RELEASE FORM

We, the undersigned, are the owner(s) of the well and/or property herein described. We have read and understand the following information concerning the proposed separation distance between our well and the subsurface waste water disposal system for which a variance is being requested. We are prepared to accept any risk that the subsurface waste water disposal system may pose to our well.

All wells should be located a safe distance from all possible sources of contamination; in this case a subsurface waste water disposal system. The Maine Subsurface Waste Water Disposal Rules require a minimum of 100 feet between a <1000 gpd disposal system and a well; 200 feet between a 1000-2000 gpd disposal system and a well; and 300 feet between a >2000 gpd disposal system and a well. (Please circle the appropriate category.)

Since the safety of a well primarily depends on considerations of good well construction, geology and adequate maintenance of the subsurface waste water disposal system, the best means of protecting the well water quality is to maintain the maximum distance between a well and a disposal system. The Department of Human Services suggests that a maximum setback distance should be maintained.

The separation distance between our well and the subsurface wastewater disposal system for which this well release approval is requested is: component LEACH FIELD / 60 feet.
component _____ / _____ feet.

Address of Property with Disposal System: ISLAND AVE
(Include Municipal Book & Page No. or Map & Lot No.) CLIFF ISLAND, ME. 04019
MAP 109 B LOT F-B

Owner(s) of Property with Disposal System: WALTER AND KATHY SWIFT

Address of Property with Well: ISLAND AVE, CLIFF IS, ME. 04019
(Include Municipal Book & Page No. or Map & Lot No.) MAP 109 B L7

Owner(s) of Property with Well: Madelyn Cousins

We, the undersigned, release the site evaluator, well driller, the municipality and the State of Maine from liability should our well become contaminated. (Note: If the subject well has more than one owner, all well owner signatures must appear on this document.)

Well Owner(s) Signature Madelyn Cousins Date 6/1/06

Date _____

State of Maine
County of CUMBERLAND ss Date 1 JUNE 2006

Then personally appeared the above named Madelyn Cousins (and _____
_____) and (severally) acknowledged the foregoing instrument to be his

(or their) free act and deed

Before me, Rose K. Park

Notary Public

My Commission expires 3 December 2006