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## SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION

State Department of Human Services  
Division of Health Engineering, Safety & Code  
(307) 287-5872 FAX (307) 287-4172

### PROPERTY LOCATION

City, Town, or Plantation: **PORTLAND, PEAKS ISLAND** >> **Call for Permit Required - Attach in Space Below** <<  
Street or Road: **98 REED AVENUE** **PORTLAND PERMIT # 10272 TOWN COPY**

Subdivision, Lot #: \_\_\_\_\_ Date Permit Issued: **5/18/07** **11/10/90**  **County Fee Charged**

Owner Applicant Information: Name (Last, First, MI): **ROFFEY WILLIAM** Owner: **William Roffey** Local Plumbing Inspector Signature: **Joanne Bourke** License # **0732**

Mailing Address of: **524 OAK STREET** **MELBOURNE BEACH, FL 32951**

Daytime Tel.: **321-725-5497** Municipal Tax Map: **9** Lot: **R-13** Lot: **43 40' 17" W** Lon: **70 1' 05" W**

**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.  
**William Roffey** 3-30-07  
**Local Plumbing Inspector Signature: Joanne Bourke 6/7/07**  
Date: \_\_\_\_\_ (Print) Date Approved: \_\_\_\_\_ (Print) Date Approved: \_\_\_\_\_

*Bed only  
See next page*

### PERMIT INFORMATION

TYPE OF APPLICATION	THIS APPLICATION REQUIRES	DISPOSAL SYSTEM COMPONENTS
1. <input type="checkbox"/> First Time System 2. <input checked="" type="checkbox"/> Replacement System Type Replaced: <b>UNKNOWN</b> Year Installed: <b>UNKNOWN</b> 3. <input type="checkbox"/> Expanded System a. <input type="checkbox"/> Minor Expansion b. <input type="checkbox"/> Major Expansion 4. <input type="checkbox"/> Experimental System 5. <input type="checkbox"/> Seasonal Conversion	1. <input type="checkbox"/> 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. <input type="checkbox"/> 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	1. <input checked="" type="checkbox"/> Complete Non-Engineered System 2. <input type="checkbox"/> Primitive System (graywater & sit 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 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> <b>7,322 +/-</b> <input checked="" type="checkbox"/> sq. ft. <input type="checkbox"/> acres	<b>DISPOSAL SYSTEM TO SERVE</b> 1. <input checked="" type="checkbox"/> Single Family Dwelling Unit, No. of Bedrooms: <b>2</b> 2. <input type="checkbox"/> Multiple Family Dwelling, No. of Units: _____ 3. <input type="checkbox"/> Other: _____ SPECIFY _____ Current Use <input type="checkbox"/> Seasonal <input type="checkbox"/> Year Round <input type="checkbox"/> Underdeveloped	<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 type="checkbox"/> Public 5. <input checked="" type="checkbox"/> Other <b>SEASONAL WATER</b>
<b>SHORELAND ZONING</b> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		

### DESIGN DETAILS (SYSTEM LAYOUT SHOWN ON PAGE 9)

TREATMENT TANK	DISPOSAL FIELD TYPE & SIZE	GARBAGE DISPOSAL UNIT	DESIGN FLOW
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: <b>1000</b> gallons	1. <input type="checkbox"/> Stone Bed 2. <input type="checkbox"/> Stone Trench 3. <input type="checkbox"/> Proprietary Device a. <input type="checkbox"/> Cluster array n. <input checked="" type="checkbox"/> near b. <input checked="" type="checkbox"/> Regular d. <input type="checkbox"/> H-20 loaded 4. <input type="checkbox"/> Other: _____ SIZE: <b>720</b> sq. ft. <input type="checkbox"/> sq. ft. <input type="checkbox"/> in. ft. <b>15 ELJEN IN-DRAIN UNITS</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"/> _____ tanks in series c. <input type="checkbox"/> Increase in tank capacity d. <input type="checkbox"/> Filter on tank outlet	<b>DESIGN FLOW</b> <b>190</b> gallons per day <b>BASED ON:</b> 1. <input checked="" type="checkbox"/> Table 501.1 (dwelling units) 2. <input type="checkbox"/> Table 501.2 (other facilities) <b>SHOW CALCULATIONS</b> - for other facilities  <b>2 BEDROOMS AT 90 GALLONS PER DAY EACH = 180 GPD</b>
<b>SOIL DATA &amp; DESIGN CLASS</b> <b>PROFILE CONDITION DESIGN</b> <b>2 A/C 1</b> AT Observation Note: <b>TB B</b> Depth: <b>15</b> <b>OF MOST LIMITING SOIL FACTOR</b>	<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 checked="" type="checkbox"/> Medium-Large - 3.3 sq.ft./gpd 4. <input type="checkbox"/> Large - 4.1 sq.ft./gpd 5. <input type="checkbox"/> Extra-Large - 5.0 sq.ft./gpd	<b>EFFLUENT RECTOR PUMP</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: <b>DOSE: 75 +/-</b> gallons	3. <input type="checkbox"/> Section 503.0 (meter readings) <b>ATTACH WATER-METER DATA</b>

### SITE EVALUATOR STATEMENT

I certify that on **10/10/06** (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 QMR 241).

Site Evaluator Signature: **Albert Frick** SE # \_\_\_\_\_ Date: **3/26/2007**

Site Evaluator Name Printed: **ALBERT FRICK** Telephone Number: **(307) 889-5563** E-mail Address: **AFRICK@STATEWATER.COM**

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

**PERMIT ISSUED**  
**MAY - 8 2007**  
**CITY OF PORTLAND**

# SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION

Maine Department of Human Services  
 State of Health Engineering, Station 13, S-6  
 (207) 287-5672 FAX (207) 287-4172

Town, City, Plantation <b>PORTLAND, PEAKS ISLAND</b>	Street, Road, Subdivision <b>98 REED AVENUE</b>	Owner's Name <b>WILLIAM ROFFEY</b>
<b>SITE PLAN</b> Scale 1" = <b>40</b> FL. or as shown		<b>SITE LOCATION PLAN</b> (Attach Map from Maine Atlas for New System Variance)
APPROX EXISTING DISPOSAL SYSTEM APPROX EXISTING LAUNDRY DRAIN LINE APPROX SEPARATED GRAYWATER DRAIN LINE REED AVENUE		
NOTE PROPERTY INFORMATION PER SURVEY PLAN BY OWEN BASKELL DATED MARCH 8, 2007		

*Tank + Pump Station will be installed before Guy Trickett will perform take + Ca.M.*

SOIL DESCRIPTION AND CLASSIFICATION (Location of Observation Holes Shown Above)																																																	
Observation Hole <u>TP 1</u> <input checked="" type="checkbox"/> Test Pit <input type="checkbox"/> Boring Depth of Organic Horizon Above Mineral Soil _____	Observation Hole <u>TB A-E</u> <input type="checkbox"/> Test Pit <input type="checkbox"/> Boring Depth of Organic Horizon Above Mineral Soil _____																																																
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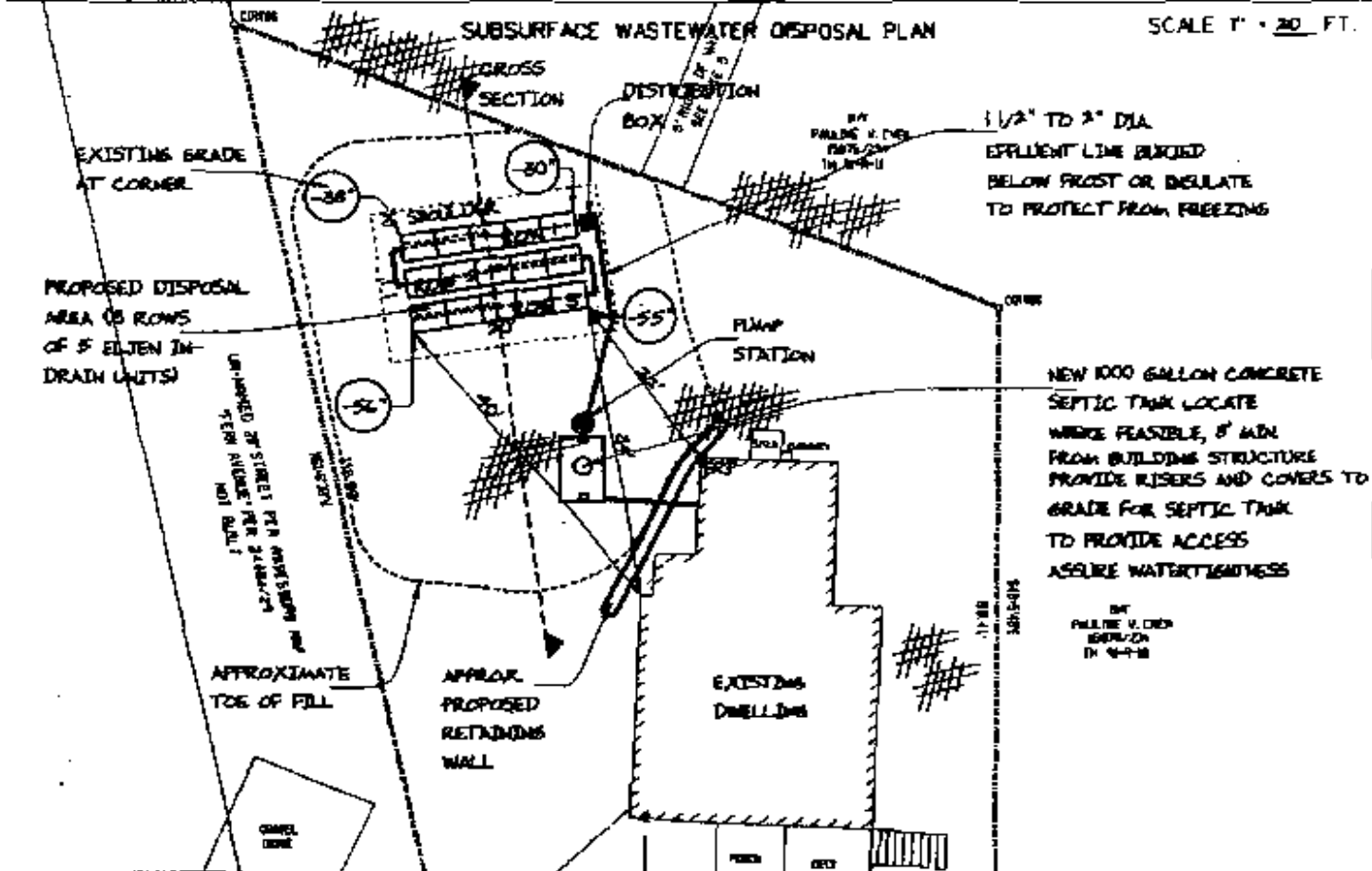
*Albert Frick*  
 Site Evaluator Signature

**SE**  
 Date 3/26/2007

# SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION

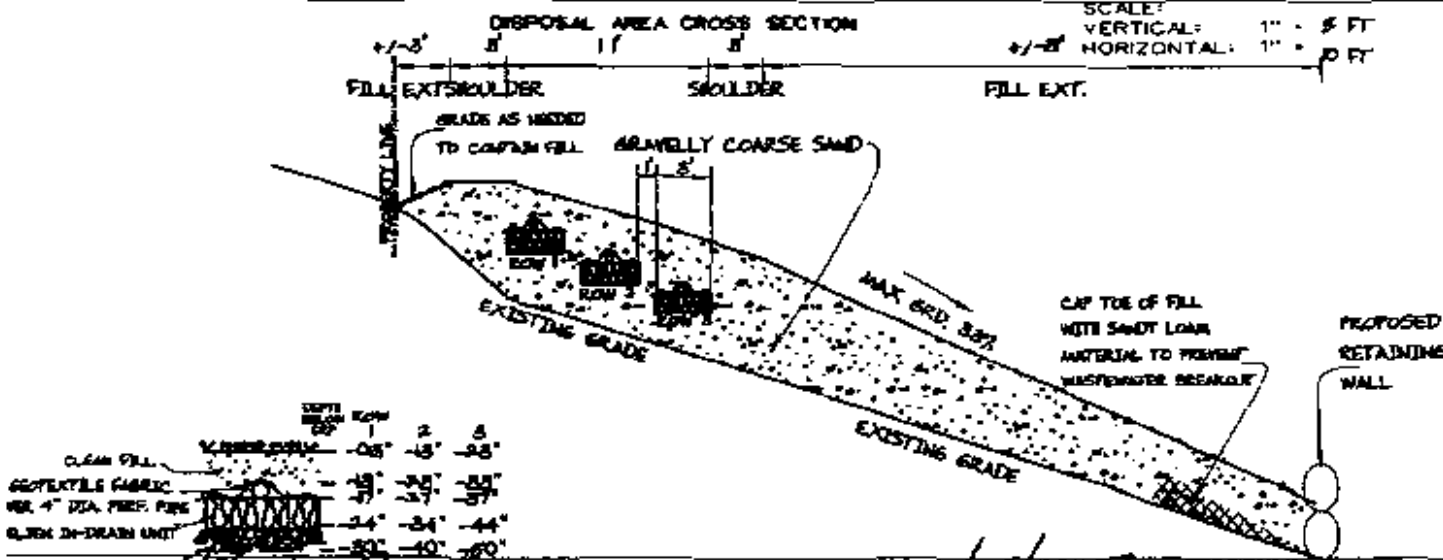
Home Department of Health Services  
 Division of Health Engineering, Section 10.915  
 (207) 287-5672 FAX (207) 287-4193

Town, City, Plantation: **PORTLAND, PEAKS ISLAND** Street, Road, Subdivision: **98 REED AVENUE** Owner's Name: **WILLIAM ROFFEY**



FILL REQUIREMENTS	CONSTRUCTION ELEVATIONS	ELEVATION REFERENCE POINT
Depth of Fill (Upslope): 27" - 35"	Finished Grade Elevation	Location & Description: BOTTOM OF BEAMS SAME BOARD, 4" ABOVE WALKWAY
Depth of Fill (Downslope): 32" - 38"	Top of Miscellaneous Proprietary Device	Reference Elevation: 0.0'
DEPTH AT CROSS-SECTION (shown below)	Bottom of Disposal Area	

SEE DETAIL BELOW





Albert Frick Associates, Inc.

Soil Scientists & Site Evaluators

95A County Road Gorham, Maine 04038

(207) 839-5363

PORTLAND, PEAKS ISLAND	98 REED AVENUE	WILLIAM ROFFEY
TOWN	LOCATION	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. 839-5363, if there are any questions concerning materials, procedures or design. 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 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 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. 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.

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 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.

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 every three years. All septic tank, pump stations and additional treatment tanks shall be installed to prevent ground water and surface water infiltration.

PORTLAND, PEAKS ISLAND	25 REED AVENUE	WILLIAM ROFFEY
TOWN	LOCATION	APPLICANT'S NAME
<p>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.) divided by the # of days in period).</p>		
<p>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.</p>		
<p>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 in minimum slope requirement. 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, by sealing/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.</p>		
<p>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 before placing more fill (this ensures that voids and loose pockets are eliminated to minimize the chance of leakage or differential setting). 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 dimbing or shallow landscape swales.</p>		
<p>11) Unless noted otherwise, fill shall be gravelly coarse sand, which contains no more than 5% fines (silt and clay).</p>		
<p>12) Do not install systems on loamy, silty, or clayey soils during wet periods since soil smearing/glazing may seal off the soil interface.</p>		
<p>13) Seed all filled and disturbed surfaces with perennial grass seed, 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.</p>		



**Albert Frick Associates, Inc.**  
Soil Scientists & Site Evaluators

95A County Road, Gorham, Maine 04038  
(207) 839-6565

FAX NO. : 2076335554

May. 02 2007 02:12PM P1

**REPLACEMENT SYSTEM VARIANCE REQUEST**

**THE LIMITATIONS OF THE REPLACEMENT SYSTEM VARIANCE REQUEST**

This form shall be attached to an application (4-HE-200) for the proposed replacement system which requires a variance to the Rules. The LPI shall review the Replacement System Variance Request and M-10 200 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 BOD<sub>5</sub> plus 5.5% content of the wastewater is no greater than that of normal domestic effluent.

<b>GENERAL INFORMATION</b>		Town of <u>PORTLAND</u>
Permit No. _____		Date Permit Issued _____
Property Owner's Name <u>WILLIAM ROFFEY</u>		TEL NO.: <u>(207) 841-8288</u>
System's Location: <u>98 REED AVE.</u>		<u>785 5497</u>
Property Owner's Address: <u>321 OAK ST.</u>		
(if different from above) <u>MELBOURNE BEACH, FL 32951</u>		

**SPECIFIC INSTRUCTIONS TO THE LOCAL PLUMBING INSPECTOR (LPI):**  
 If any of the variances caused your approval authority and/or do not meet all of the requirements listed under the Limitations Section above, then you are to send the 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:**  
 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's characteristics 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 this 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.

William T. Roffey  
SIGNATURE OF OWNER

5-2-07  
DATE

**LOCAL PLUMBING INSPECTOR**  
 I, \_\_\_\_\_, the undersigned, have visited the above property and have determined in 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.  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.  do not 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

\_\_\_\_\_  
DATE

Received Time May. 3 2:00PM

Received Time May. 3 2:40PM

Replacement System Variance Request

VARIANCE CATEGORY	VARIANCE REQUESTED		LIMIT OF LPI'S APPROVAL AUTHORITY		VARIANCE REQUESTED TO:	
<b>SOILS</b>						
Soil Profile	Ground Water Table		to 7'		inches	
Soil Condition	Restrictive Layer		to 7'		inches	
From HME-200	Bedrock		to 12'		inches	
<del>REPLACEMENT SYSTEM</del>	<del>1000 gpd</del>	<del>1000 gpd</del>	<del>100' ft</del>	<del>100' ft</del>	<del>100' ft</del>	<del>100' ft</del>
Wells with water usage of 2000 or more gpd	300' ft	300' ft	100' ft	100' ft		
Owner's wells	100' down to 50' ft	200' down to 100' ft	100' down to 50' ft	100' down to 50' ft		
Neighbor's wells	100' down to 50' ft	200' down to 120' ft	100' down to 50' ft	100' down to 70' ft		
Water supply line	10' ft	20' ft	10' ft	10' ft		
Water course, major - for replacements only, see Table 400.4 for exempted extensions	100' down to 50' ft	200' down to 120' ft	100' down to 50' ft	100' down to 50' ft		
Water course, minor	50' down to 25' ft	100' down to 50' ft	50' down to 25' ft	50' down to 25' ft		
Drainage ditches	25' down to 12' ft	50' down to 25' ft	25' down to 12' ft	25' down to 12' ft		
Coastal wetlands, special freshwater wetlands, great ponds, rivers, streams (edge of fill extension)	25' ft	25' ft	25' ft	25' ft		
Slopes greater than 3:1	10' ft	15' ft	N/A	N/A		
No full basement (e.g. slab, frost wall, columns)	15' down to 7' ft	30' down to 15' ft	8' down to 5' ft	14' down to 7' ft		5'±
Full basement (below grade foundation)	20' down to 10' ft	30' down to 15' ft	8' down to 5' ft	14' down to 7' ft		
Property line	10' down to 5' ft	15' ft down to 5' ft	10' ft down to 4' ft	15' ft down to 7' ft	5'-9'	4'±
Burial sites or graveyards, measured from the down toe of the fill extension	25' ft	25' ft	25' ft	25' ft		

**OTHER**

1. Fill extension Grade - to 3:1 NEAR PROPERTY LINES, AS NECESSARY

2. \_\_\_\_\_
3. \_\_\_\_\_

**Footnotes:**

- a. This setback distance cannot be reduced by the LPI, but may be considered for reduction by State variance
- b. Written Permission from the owner of a well is required when a replacement system will be located less than 100 (or 200 ft. for 1000-2000 gpd) feet and closer to that well than the system it is replacing.
- c. Sufficient distance shall be maintained to assure that the toe of the fill does not extend to the 3:1 slope or property line.
- d. Natural Resources Protection Act requires a 25 foot setback on slopes with less than 20% from the edge of disturbance and 100 feet on slopes greater than 20% except for the repair or installation of a replacement system when no practical alternative exists.

*Albert Frick*  
 \_\_\_\_\_  
 SITE EVALUATOR'S SIGNATURE

5/2/2007  
 10/15/99  
 \_\_\_\_\_  
 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.

*Chris Smith* 1069 City of  
 \_\_\_\_\_  
 SIGNATURE OF THE DEPARTMENT

6/7/07  
 \_\_\_\_\_  
 DATE