

**New Hanover County Environmental Health**

**Checklist for Conventional Septic System Installation**

*Ask me about this*

Site Location: B23 Summer Hideaway File # 1874

System Location Initials AP ; Date 3-3-11

**Required Setbacks Met:**

Public Water Supply: 100'	SA Waters: 100' MHWL	Property Lines: 5' or 10'
Private Well : 100' (50)	Surface Waters: 50'	House Foundation: 5'
Water Line: 10'	Drainage Feature: 10', 15', 25'	Other Septic System: 20'

Located in Permitted Area ; Not in Driveway Area ; Repair Area Reserved

Tank Information Initials AP ; Date 3-3-11

Tank Size: 1000 gallons ; Tank Date: 12-23-10 ; Tank Manufacturer #: SB1000 ; Baffle STB833

Sanitary Tee ; Filter ; Gas Vent Clear ; Visible Defects ; Risers if Needed

System Information Initials AP ; Date 3-3-11

PVC Plumbing with Sufficient Grade ( Tank- D-box ; D-box - drainlines)

Piping Materials Approved ; Equal Distribution to All Drainlines

No. Drainlines: 3 ; Length Each: 40 Ft ; Width Each: 3 Ft ; Proper Grade in Drainline

Proper Trench Separation ; Trench Bottom Depth Met ; Rock Type Approved

Rock Depth of 12 inches ; Filter Fabric Used ; 6 Inch Soil Cover Available

**Other Information**

Special Conditions Required on Permit Met: Y/N / Not Applicable

Comments: Polystyrene 3/ins @ 40 ~~AP~~

**Pipes, Alex**

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**To:** Health - Final Inspection  
**Subject:** File Number 17874; Permit # 1011957

Address / Lot # / Subdivison	Well	Bacteriological Water Analysis	Septic System
1323 Summer Hideaway Lot 6	NA Public Water	NA	3/3/2011

Pipe

Authorization #: 0N0017874  
Date of Issue: 9-21-10  
Expiration Date: 1-19-13

REVISION

File#: 17874  
Page 1 of 2

New Hanover County Health Department  
Environmental Health Services  
230 Market Place Dr, Suite 140  
Wilmington, NC 28403  
(910) 798-6667 (910) 798-7269 fax

### Authorization for Wastewater System Construction

Any Change to Proposed Use Or Site Plan Will Void Permit  
Permit Expires Five Years From Date Of Issuance

Owner/Applicant: Rufus Dean  
Address: P.O. Box 4435  
Wilmington, NC 28403

Phone No.: 910-540-3438  
Site Location: 1323 Summer Hideaway  
Wilmington, NC 28409

Tax Parcel: R08200-003-020-000  
Subdivision: Johns Creek II

Lot: 6 Block: \_\_\_\_\_ Section: \_\_\_\_\_  
Lot Dimensions: 95' x 159'

Residential/ Commercial (circle one) If commercial, type: \_\_\_\_\_ gal/day 480  
No. Units: 1 No. Bedrooms: 4 No. Occupants/Employees: 8 max.  
Septic Tank Size: 1000 gallons Pump Tank Size: NA gallons LTAR: 7.1 gal/day/sq. feet  
System Type: 2A Water Supply:  public  private (well permit required)  
No. Drainlines: 3 Length each: 45 FT Width each: NA FT Drainfield Sq. Feet: 675 360  
Bed Dimensions: 45 FT x 45 FT 40 Trench Bottom Depth: 30 inches (Max.)  
AR AR

Wastewater system must be installed to meet all requirements according to 15A NCAC 18A. 1900 *Laws and Rules for Sewage Treatment and Disposal Systems* (including)

- Keep system 50 feet minimum from all water supplies
- Keep system 10 feet from property lines.
- Keep system 10 feet from all water lines (includes irrigation systems)
- Do not drive over septic system area
- If septic system uses rock aggregate, install approved filter fabric

Site Plan

• ELEVATE HOUSE TO MAINTAIN GRAVITY FLOW  
• DO NOT DRIVE OVER SYSTEM AREA  
• SEE ATTACHED SITE PLAN FOR SYSTEM LOCATION  
AS BUILT 3-3-11  
3 LINES @ 40' 25% REDUCTION POLYSTYRENE

Construction Authorization issued by: [Signature] Date 9-21-10  
Permit not valid unless signed by Authorized Agent

Owner/Applicant: \_\_\_\_\_ Date: \_\_\_\_\_

Operations Permit: The above permitted wastewater system has been installed and found to meet the requirements for wastewater system installations as described in 15A NCAC 18A.1900 *Laws and Rules for Sewage Treatment and Disposal Systems*. This approval shall in no way be taken as a guarantee for the performance of the wastewater system for any given period of time.

System Installed by: Danny Watan Date: 3-3-11

Operations Permit issued by: [Signature] Date 3-10-11  
Permit not valid unless signed by Authorized Agent

Final Approval Release: [Signature] Date 3-10-11

White copy- Env. Health      Pink copy- Building Inspections      Yellow copy- Owner      Green copy- System Installer



REVISION  
9-21-10

File Number 17874  
LE Number \_\_\_\_\_  
Page 1 of 1

New Hanover County Health Department  
Environmental Health Services  
230 Market Place Dr, Suite 140  
Wilmington, NC 28403  
(910) 798-6667 (910) 798-7269 fax

**IMPROVEMENTS PERMIT**

PERMIT IS SUBJECT TO REVOCATION IF SITE PLANS OR INTENDED USE CHANGE

Owner Rufus Dean Applicant Rufus Dean  
Address PO Box 4425 Phone No. 910-540-3438  
Wilmington, NC 28403 Tax Parcel R08200003020000

Site Location: 1323 Summer Hideaway Lot: 6 Block: \_\_\_\_\_ Section: \_\_\_\_\_  
Wilmington, NC 28409 Subdivision: Johns Creek II

Residential/ Commercial (circle one) If commercial, type \_\_\_\_\_ gal/day 480  
No. Units: 1 No. Bedrooms: 4 No. Occupants/Employees: 8 max.  
Septic Tank Size: 1000 gallons Pump Tank Size: NA gallons LTAR: 1.1 gal/day/sq.foot  
System Type: 2A Water Supply:  public \_\_\_\_\_ private (well permit required)  
No. Drainlines: \_\_\_\_\_ Length each: \_\_\_\_\_ FT Width each: \_\_\_\_\_ FT Drainfield Sq. Feet: 675  
Bed Dimensions: 15 FT x 45 FT Trench Bottom Depth: 30 inches (Max.)

The following conditions noted must be completed and approved prior to the issuance of an *Authorization for Wastewater System Construction* permit. A Building Permit cannot be obtained without an *Authorization for Wastewater System Construction*. (Check all that apply)

- Lot must be recorded with the New Hanover County Register of Deeds Office.
- Suitable fill material must be installed according to attached Fill Plan. (Fill must be inspected and approved before release of *Authorization for Wastewater System Construction*.)
- Approved for use of Alternative/ Innovative system, type: \_\_\_\_\_  
(Request form must be completed and returned to Health Dept.)
- Install drainage as required.
- Other: \_\_\_\_\_

Issuance of this permit does not necessarily indicate that the proposed structure or use of the wastewater system meets county zoning and land use regulations. If you have any questions about possible zoning requirements, please contact the New Hanover County Planning Department. This permit does not exempt the permittee from complying with all other laws and regulations that are imposed by other agencies. This permit shall in no way be taken as a guarantee for the performance of the wastewater system for any given period of time. Any change in the nature, volume or location of the system shall render this permit VOID.

Improvements Permit Date 9-21-10 Expiration Date 1-19-13

Signature: [Signature]  
Permit not valid unless signed by Authorized Agent

RECEIVED  
New Hanover Co. Health Dept.

Owner/Applicant Rufus Dean Date SEP 24 2010

Environmental Health

**SOIL/SITE EVALUATION**  
**for ON-SITE WASTEWATER SYSTEM**

OWNER: Rufus Dean APPLICATION DATE: 9-9-10  
 ADDRESS: 1323 Summer Hideaway DATE EVALUATED: 9-14-10  
 PROPOSED FACILITY: 4 BR PROPOSED DESIGN FLOW (.1949): 480 PROPERTY SIZE: \_\_\_\_\_  
 LOCATION OF SITE: 1323 Summer Hideaway PROPERTY RECORDED: \_\_\_\_\_  
 WATER SUPPLY: • Private • Public • Well • Spring • Other \_\_\_\_\_  
 EVALUATION METHOD: • Auger Boring • Pit • Cut TYPE OF WASTEWATER: • Sewage • Industrial Process • Mixed

P R O F I L E #	.1940 LANDSCAPE POSITION/ SLOPE %	HORIZON DEPTH (IN.)	SOIL MORPHOLOGY (.1941)		OTHER PROFILE FACTORS				PROFILE CLASS & LTAR
			.1941 STRUCTURE/ TEXTURE	.1941 CONSISTENCE/ MINERALOGY	.1942 SOIL WETNESS/ COLOR	.1943 SOIL DEPTH	.1956 SAPRO CLASS	.1944 RESTR HORIZ	
1		0-12	S/gr	NS, NP, Ft, Se xp	10ys 4/1				1.1
		12-60	S/gr	↓	10ys 6/4				
2		0-8	S / gr	NS, NP, Ft, Se xp	10ys 4/1				1.1
		8-30	S / gr	↓	10ys 6/4				
		30-60	S / gr	↓	10ys 6/6				
3			Same	as #1					
4									

DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM	OTHER FACTORS (.1946):
Available Space (.1945)	5		SITE CLASSIFICATION (.1948): _____
System Type(s)	2A	5	EVALUATED BY: <u>A. Pipes</u>
Site LTAR	1.1		OTHER(S) PRESENT: _____

COMMENTS: \_\_\_\_\_

# LEGEND

use the following standard abbreviations

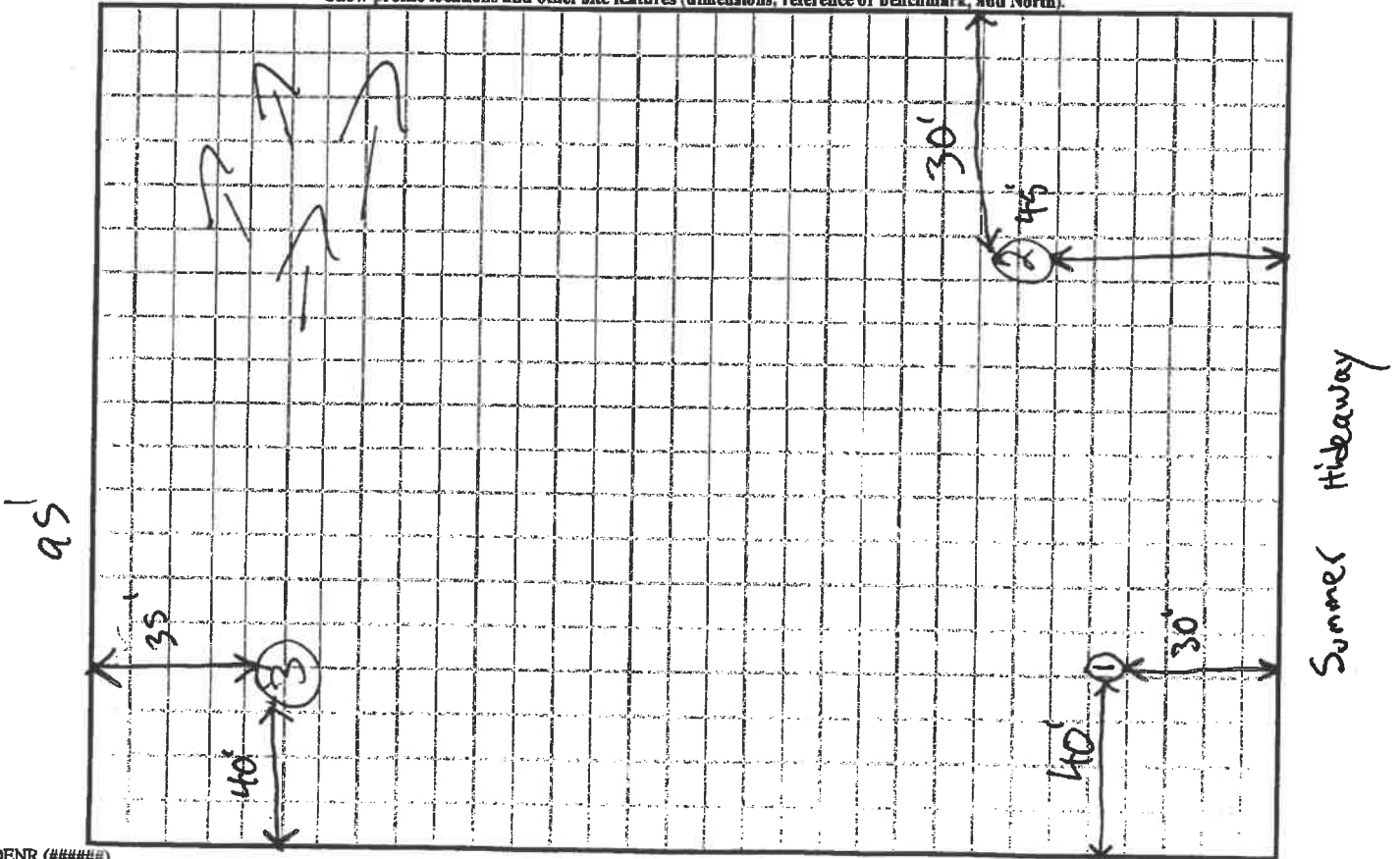
LANDSCAPE POSITION	GROUP	SOIL TEXTURE	CONVENTIONAL .1955 LTAR*	LPP .1957 LTAR*	MINERALOGY/ CONSISTENCE	STRUCTURE
CC (Concave Slope)	I	S (Sand)	1.2 - 0.8	0.6 - 0.4	NEXP (Non-expansive) SEXP (Slightly Expansive) EXP (Expansive)	G (Single Grain)
CV (Convex Slope)		LS (Loamy Sand)				M (Massive)
D (Drainage Way)	II	SL (Sandy Loam)	0.8 - 0.6	0.4 - 0.3		CR (Crumb)
DS (Debris Slump)		L (Loam)				GR (Granular)
FP (Flood Plain)	III	Si (Silt)	0.6 - 0.3	0.3 - 0.15		SBK (Subangular Blocky)
FS (Foot Slope)		SiCL (Silty Clay Loam)				ABK (Angular Blocky)
H (Head Slope)		CL (Clay Loam)				PL (Platy)
L (Linear Slope)		SCL (Sandy Clay Loam)				PR (Prismatic)
N (Nose Slope)	IV	SiL (Silt Loam)	None	None	MOIST VFR (Very Friable) FR (Friable) FI (Firm) VFI (Very Firm v. Very Sticky) EFI (Extremely Firm)	NS (Non-sticky)
R (Ridge)		SC (Sandy Clay)				SS (Slightly Sticky)
S (Shoulder Slope)		SiC (Silty Clay)				S (Sticky)
T (Terrace)		C (Clay)				VS (Very Sticky)
		O (Organic)				NP (Non-plastic) SP (Slightly Plastic)
						P (Plastic) VP (Very Plastic)

\* Adjust LTAR due to depth, consistence, structure, soil wetness, landscape, position, wastewater flow and quality.

**NOTES**

- HORIZON DEPTH** In inches below natural soil surface
- DEPTH OF FILL** In inches from land surface
- RESTRICTIVE HORIZON** Thickness and depth from land surface
- SAPROLITE** S(suitable) or U(unsuitable)
- SOIL WETNESS CLASSIFICATION** Inches from land surface to free water or inches from land surface to soil colors with chroma 2 or less - record Munsell color chip designation
- S (Suitable), PS (Provisionally Suitable), or U (Unsuitable)
- Evaluation of saporlite shall be by pits.
- Long-term Acceptance Rate (LTAR): gal/day/ft<sup>2</sup>

Show profile locations and other site features (dimensions, reference or benchmark, and North).



DENR (#####)  
Review (#####)

159



New Hanover County Health Department  
Environmental Health Services  
230 Market Place Dr, Suite 140  
Wilmington, NC 28403  
(910) 798-6667 (910) 798-7269 fax

### IMPROVEMENTS PERMIT

PERMIT IS SUBJECT TO REVOCATION IF SITE PLANS OR INTENDED USE CHANGE

Owner DAVID GREEK CONSTRUCTION Applicant DAVID GREEK CONSTRUCTION  
Address PO BOX 15813 Phone No. 799-8862 (HOME) 790-0046 (BUSINESS)  
WILMINGTON NC 28408 Tax Parcel \_\_\_\_\_

Site Location: SUMMER HIDEAWAY Lot: 6 Block: \_\_\_\_\_ Section: \_\_\_\_\_  
WILMINGTON Subdivision: JOHNS CREEK SOUTH

Residential  Commercial (circle one) If commercial, type \_\_\_\_\_ gal/day 480  
No. Units: 1 No. Bedrooms: 4 No. Occupants/Employees: 8 max.  
Septic Tank Size: 1000 gallons Pump Tank Size: \_\_\_\_\_ gallons LTAR: 1.0 gal/day/sq.foot  
System Type: UC (BSP) Water Supply:  public \_\_\_\_\_ private (well permit required)  
No. Drainlines: \_\_\_\_\_ Length each: \_\_\_\_\_ FT Width each: \_\_\_\_\_ FT Drainfield Sq. Feet: 720  
Bed Dimensions: 12 FT x 60 FT Trench Bottom Depth: 18 inches (Max.)

The following conditions noted must be completed and approved prior to the issuance of an *Authorization for Wastewater System Construction* permit. A Building Permit cannot be obtained without an *Authorization for Wastewater System Construction*. (Check all that apply)

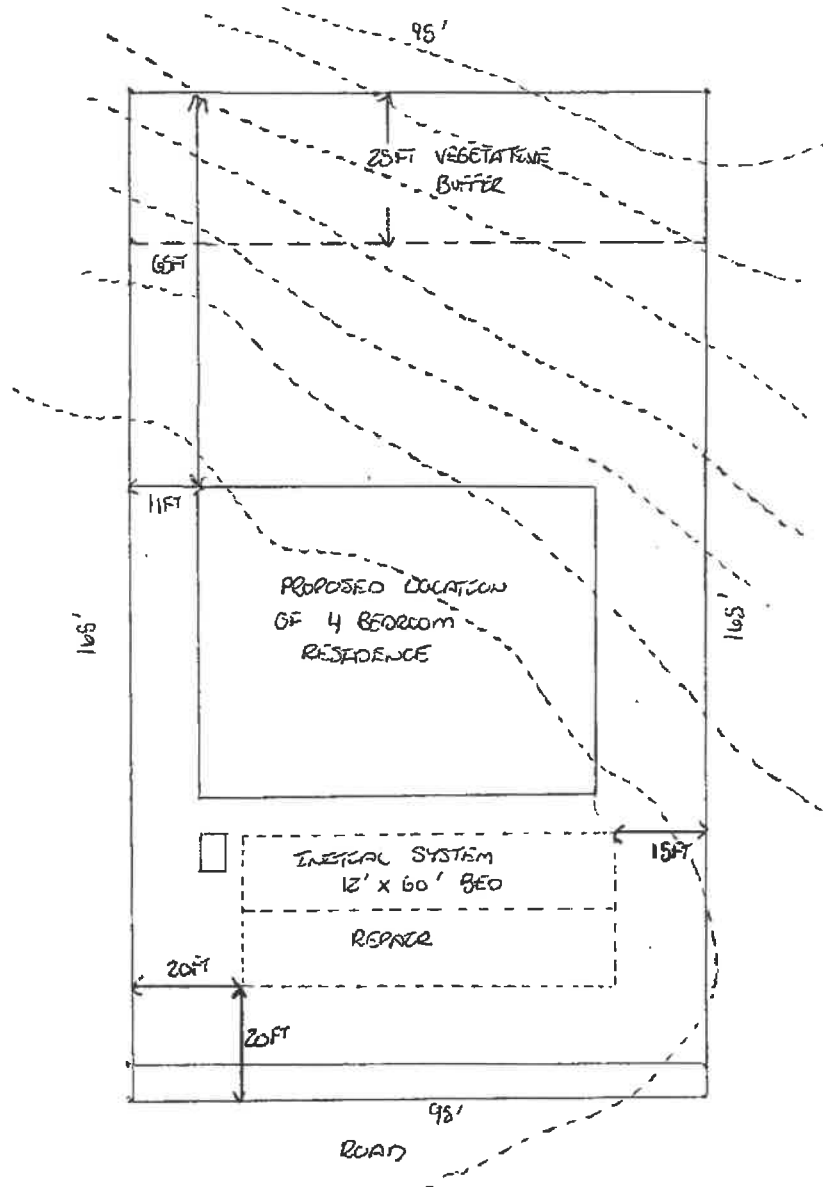
- Lot must be recorded with the New Hanover County Register of Deeds Office.
- Suitable fill material must be installed according to attached Fill Plan. (Fill must be inspected and approved before release of *Authorization for Wastewater System Construction*.)
- Approved for use of Alternative/ Innovative system, type: \_\_\_\_\_  
(Request form must be completed and returned to Health Dept.)
- Install drainage as required.
- Other: PERIOD TO THE ISSUANCE OF THE CONSTRUCTION AUTHORIZATION A SITE PLAN NEEDS TO BE PROVIDED WITH SPECIFIC LOCATION OF THE HOUSE (WITH DIMENSIONS), DRIVEWAYS AND ANY OTHER APPURTENANCES PERTAINING TO PROPERTY.

Issuance of this permit does not necessarily indicate that the proposed structure or use of the wastewater system meets county zoning and land use regulations. If you have any questions about possible zoning requirements, please contact the New Hanover County Planning Department. This permit does not exempt the permittee from complying with all other laws and regulations that are imposed by other agencies. This permit shall in no way be taken as a guarantee for the performance of the wastewater system for any given period of time. Any change in the nature, volume or location of the system shall render this permit VOID.

Improvements Permit Date 1-19-2005 Expiration Date 1-19-2010

Signature: Michael Bunkin E.S.  
Permit not valid unless signed by Authorized Agent

Owner/Applicant Jerry Arls / D. Green Const Date 1/27/05



**NOTICE**

NO CHANGE IN LOCATION OF WELL OR SEPTIC TANK SYSTEM WITHOUT PRIOR APPROVAL OF THE NEW MANOVER COUNTY HEALTH DEPARTMENT

FILE # 17574 DATE 1-19-2005  
 ADDRESS SUMMEE HIDEAWAY LOT# 6 JOHNS CREEK SOUTH  
 SIGNATURE Michael Butth P.S.

SCALE 1" = 30'

## SOIL/SITE EVALUATION for ON-SITE WASTEWATER SYSTEM

OWNER: DAVID GREEB CONSTRUCTION APPLICATION DATE 11-29-2004  
 ADDRESS: PO BOX 15813 DATE EVALUATED: 1-3-2005  
 PROPOSED FACILITY: RESIDENCE PROPOSED DESIGN FLOW (.1949): 450 PROPERTY SIZE: \_\_\_\_\_  
 LOCATION OF SITE: SUMMER HIGHWAY LOT # 6 JONAS CREEK SOUTH PROPERTY RECORDED: \_\_\_\_\_  
 WATER SUPPLY:  Private  Public  Well  Spring  Other \_\_\_\_\_  
 EVALUATION METHOD:  Auger Boring  Pit  Cut TYPE OF WASTEWATER:  Sewage  Industrial Process  Mixed

PROFILE #	.1940 LANDSCAPE POSITION/SLOPE %	HORIZON DEPTH (IN.)	SOIL MORPHOLOGY (.1941)		OTHER PROFILE FACTORS				PROFILE CLASS & LTAR
			.1941 STRUCTURE/TEXTURE	.1941 CONSISTENCE/MINERALOGY	.1942 SOIL WETNESS/COLOR	.1943 SOIL DEPTH	.1956 S&P CLASS	.1944 RESTR HORIZ	
1		0-6	LS ; GE/CE	VFR. NS. NP	2.54% 1042 1/8 >48"	S	S	S	SUITABLE  1.0
		6-18	LS ; GE/CE	VFR. NS. NP					
		18-48	LS ; GE/CE	VFR. NS. NP					
2		0-3	LS ; GE/CE	VFR. NS. NP	2.84% 1042 1/8 >48"	S	S	S	SUITABLE  1.0
		3-12	LS ; GE/CE	VFR. NS. NP					
		12-48	LS ; GE/CE	VFR. NS. NP					
3		0-3	LS ; GE/CE	VFR. NS. NP	1042% 1042% >48"	S	S	S	SUITABLE  1.0
		3-12	LS ; GE/CE	VFR. NS. NP					
		12-48	LS ; GE/CE	VFR. NS. NP					
4		0-3	LS ; GE/CE	VFR. NS. NP	2.34% 1042 1/8 >48"	S	S	S	SUITABLE  1.0
		3-20	LS ; GE/CE	VFR. NS. NP					
		20-48	LS ; GE/CE	VFR. NS. NP					

DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM	OTHER FACTORS (.1946): _____
Available Space (.1945)			SITE CLASSIFICATION (.1948): _____
System Type(s)			EVALUATED BY: _____
Site LTAR			OTHER(S) PRESENT: _____

COMMENTS: SEE SHEET #1 FOR BORING LOCATIONS. ADDITIONAL BORINGS DONE ON BACK

**NOTICE**

HEALTH DEPARTMENT  
APPROVAL OF THE NEW HAMPSHIRE COUNTY  
SEPTIC TANK SYSTEM WITHOUT PRIOR  
NO CHANGE IN LOCATION OF WELL OR

FILE # \_\_\_\_\_  
ADDRESS \_\_\_\_\_  
SIGNATURE \_\_\_\_\_

# LEGEND

*use the following standard abbreviations*

LANDSCAPE POSITION	GROUP	SOIL TEXTURE	CONVENTIONAL .1955 LTAR*	LPP .1957 LTAR*	MINERALOGY/ CONSISTENCE	STRUCTURE
CC (Concave Slope) CV (Convex Slope) D (Drainage Way) DS (Debris Slump) FP (Flood Plain) FS (Foot Slope) H (Head Slope) L (Linear Slope) N (Nose Slope) R (Ridge) S (Shoulder Slope) T (Terrace)	I	S (Sand) LS (Loamy Sand)	1.2 - 0.8	0.6 - 0.4	NEXP (Non-expansive) SEXP (Slightly Expansive) EXP (Expansive)	G (Single Grain) M (Massive) CR (Crumb) GR (Granular)
	II	SL (Sandy Loam) L (Loam)	0.8 - 0.6	0.4 - 0.3		SBK (Subangular Blocky) ABK (Angular Blocky) PL (Platy) PR (Prismatic)
	III	Si (Silt) SiCL (Silty Clay Loam) CL (Clay Loam) SCL (Sandy Clay Loam) SiL (Silt Loam)	0.6 - 0.3	0.3 - 0.15		
	IV	SC (Sandy Clay) SiC (Silty Clay) C (Clay) O (Organic)	0.4 - 0.1	0.2 - 0.05	<b>MOIST</b>  VFR (Very Friable) FR (Friable) FI (Firm) VFI (Very Firm v. Very Sticky) EFI (Extremely Firm)	<b>WET</b>  NS (Non-sticky) SS (Slightly Sticky) S (Sticky) VS (Very Sticky) NP (Non-plastic) SP (Slightly Plastic)  P (Plastic) VP (Very Plastic)
			None	None		

\*Adjust LTAR due to depth, consistence, structure, soil wetness, landscape, position, wastewater flow and quality.

**NOTES**

- HORIZON DEPTH** In inches below natural soil surface
  - DEPTH OF FILL** In inches from land surface
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  - SOIL WETNESS** Inches from land surface to free water or inches from land surface to soil colors with chroma 2 or less - record Munsell color chip designation
  - CLASSIFICATION** S (Suitable), PS (Provisionally Suitable), or U (Unsuitable)
- Evaluation of saprolite shall be by pits.  
Long-term Acceptance Rate (LTAR): gal/day/ft<sup>2</sup>

Show profile locations and other site features (dimensions, reference or benchmark, and North).

H5

0-18	LS	G2/C2	VFR, NS, NP	2.51 1/8
18-48	LS	G2/C2	VFR, NS, NP	10.42 1/8
		248'		
		S		
		1.0		

DENR (#####)  
Review (#####)

1-3-2005

SITE VISIT / SOIL EVAL FOR LOT H6

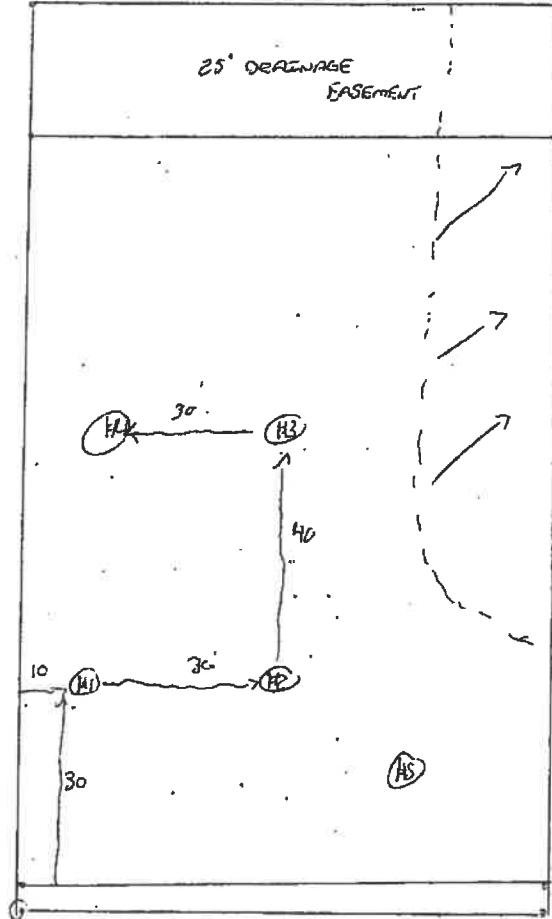
(H1)	0-6	LS	GE/CE	VFR. NS. NP	
	6-18	LS	GE/CE	VFR. NS. NP	25% <sup>1/4</sup>
	18-48	LS	GE/CE	VFR. NS. NP	10% <sup>1/2</sup>
					$\frac{248}{5}$
					1.0

(H2)	0-3	LS	GE/CR	VFR. NS. NP	
	3-12	LS	GE/CR	VFR. NS. NP	25% <sup>1/4</sup>
	12-48	LS	GE/CR	VFR. NS. NP	10% <sup>1/2</sup>
					$\frac{248}{5}$
					1.0

(H3)	0-3	LS	GE/CE	VFR. NS. NP	
	3-12	LS	GE/CE	VFR. NS. NP	10% <sup>1/2</sup>
	12-48	LS	GE/CE	VFR. NS. NP	10% <sup>1/2</sup>
					$\frac{248}{5}$
					1.0

(H4)	0-3	LS	GE/CE	VFR. NS. NP	
	30-20	LS	GE/CR	VFR. NS. NP	25% <sup>1/4</sup>
	20-48	LS	GE/CR	VFR. NS. NP	10% <sup>1/2</sup>
					$\frac{248}{5}$
					1.0

(H5)	0-18	LS	GE/CE	VFR. NS. NP	25% <sup>1/4</sup>
	18-48	LS	GE/CE	VFR. NS. NP	10% <sup>1/2</sup>
					$\frac{248}{5}$
					1.0



\* LOT FACILITY LEVEL @ FRONT (ABOUT 60' FROM ROAD)

11/11/11

Handwritten notes on the left side of the page.

#1

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REBECCA P. SMITH  
REGISTER OF DEEDS, NEW HANOVER  
216 NORTH SECOND STREET

WILMINGTON, NC 28401

\*\*\*\*\*

Filed For Registration: 03/16/2005 04:41:39 PM

Book: PLAT 47 Page: 255-256

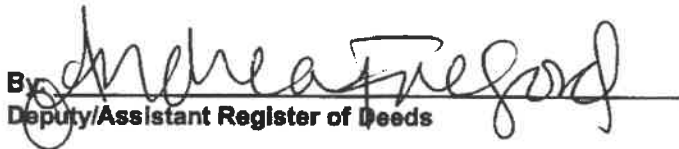
Document No.: 2005013090

PLAT 2 PGS \$21.00

Recorder: ANDREA FULFORD

State of North Carolina, County of New Hanover

REBECCA P. SMITH , REGISTER OF DEEDS

By   
Deputy/Assistant Register of Deeds

YELLOW PROBATE SHEET IS A VITAL PART OF YOUR RECORDED DOCUMENT.  
PLEASE RETAIN WITH ORIGINAL DOCUMENT AND SUBMIT FOR RE-RECORDING.

**\*2005013090\***  
2005013090

