

**Hal Owen, CPSSc**

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7 April 1993

Harnett County Environmental Health  
P.O. Box 9  
Lillington, NC 27546

Attention: Mr. Graham Byrd

Reference: Daniel Page Property  
Preliminary Soil Investigation

Dear Mr. Byrd,

A preliminary soils investigation has been completed for the above referenced lot, located on the east side of Bailey Road (SR 1561), Grove Township, Harnett County, North Carolina. The purpose of the investigation was to determine the lot's ability to support subsurface sewage waste disposal systems. All ratings and determinations were made in accordance with "Laws and Rules for Sanitary Sewage Collection, Treatment and Disposal, 15A NCAC 18A .1900".

The lot contains an area of soils that are rated as provisionally suitable for conventional septic systems due to soil texture and soil wetness. The lot appears to have adequate usable area to support one septic system and repair area. The area on the northern portion of the property is rated as unsuitable due to soil wetness high in the soil profile.

I trust that this report provides the information that you require at this time. If you have any questions or need additional information, please contact me at your convenience.

Sincerely,

*Hal Owen*  
Hal Owen

Certified Professional  
Soil Scientist



Post-it® Fax Note	7671	Date	11-15	# of pages	2
To	Graham Byrd	From	Dwight Snow		
Co./Dept.		Co.			
Phone #		Phone #			
Fax #	893-9371	Fax #			

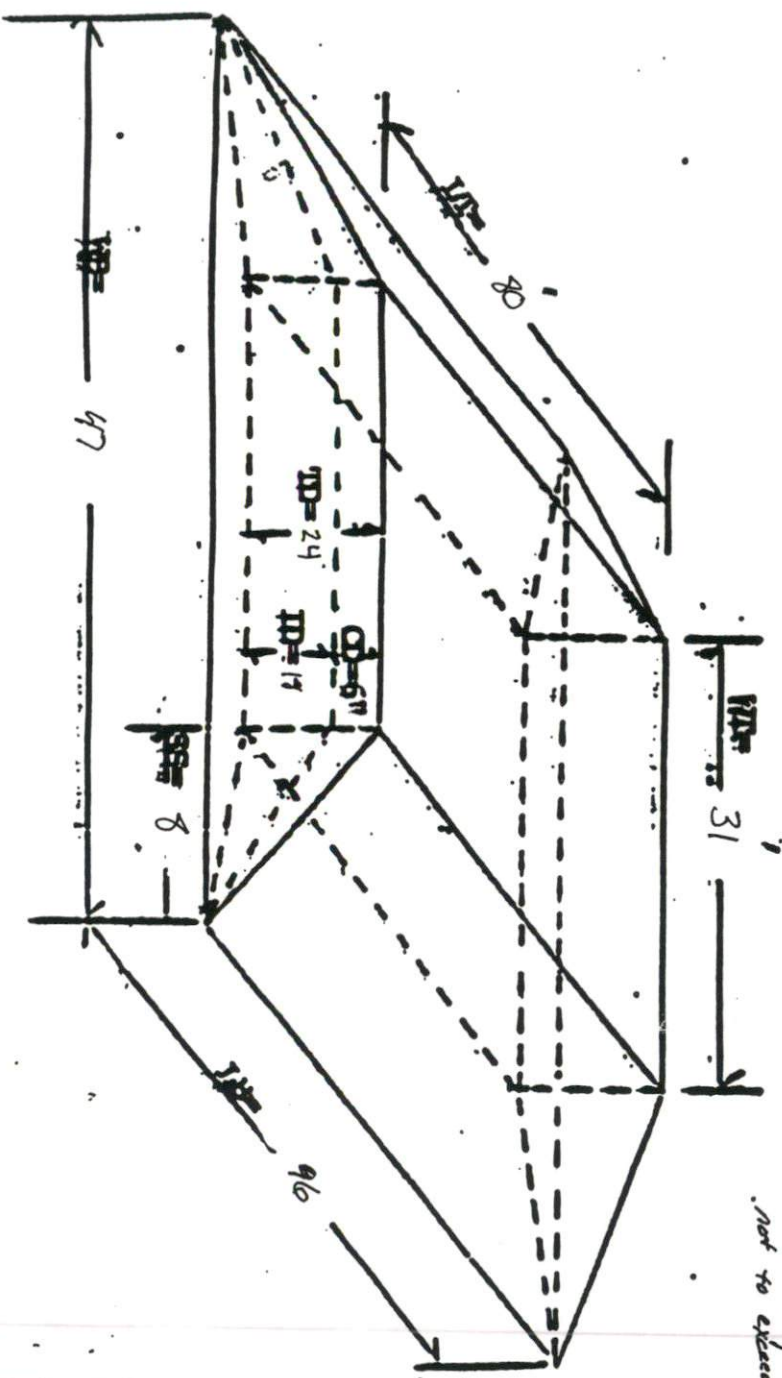
fr: David Page

Address: \_\_\_\_\_

Location: \_\_\_\_\_

Plot Plan

Horizontal Dimensions



Group I soil

rise:run 1:3  
All other groups  
not to exceed 1:4

WT = width of top

LT = length of top

WB = width of bottom

SS = side slope

TD = total depth

ID = initial depth

Fill material shall be applied in \_\_\_\_\_ stages:

- a. Initial fill material shall have such soil texture as to be classified as sand or loamy sand (soil Group I) and shall be applied to a depth of (   "   ) which will be level with the top of the nitrification trenches. See ID on Mound Dimension Section.
- b. The final 6" of fill used to cover the system shall be placed on the mound after the system is installed, have a finer texture and be classified as sandy loam, loam, silt, silt loam, sandy clay loam, clay loam or silty clay loam (soil Groups II and III) for the establishment of vegetative cover. See CD on Mound Dimension Section.
2. The fill material and the existing soil shall be mixed to a depth of 6" below the interface.
3. Heavy vegetative cover or organic litter shall be removed before fill material is incorporated.
4. ~~( ) Proceed nitrification field installation.~~  
(X) Inspection of mound prior to installing drainfield.
5. Have inspection approval prior to covering and finish grading.
6. The fill system shall be shaped to shed surface water and shall be stabilized with a vegetative cover against erosion. This shall be accomplished by placing straw and grass seed on the system after landscaping is completed.

Remarks/Recommendations: Fill to be approved by Thomas Boyce  
Final system layout and design to be determined prior to  
start of installation

Name: Thomas Boyce, P.S.  
Date: 12-12-95  
Telephone #: 893-7547

## SOIL/SITE EVALUATION ON-SITE WASTEWATER SYSTEM

OWNER: Dan Page APPLICANT: \_\_\_\_\_  
 ADDRESS: \_\_\_\_\_ APPLICATION DATE: \_\_\_\_\_ DATE EVALUATED: \_\_\_\_\_  
 PROPOSED FACILITY: \_\_\_\_\_ PROPOSED DESIGN FLOW (.1949): 360 gpd PROPERTY SIZE: \_\_\_\_\_  
 LOCATION OF SITE: SR 1561 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 LAND- SCAPE POSITION/ SLOPE %	HORI- ZON 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		16-0	fill SL, gr		0"	>20	-	-	u
		0-8	CL wk sbk	sexp					
		8-20	C ma fi	exp					
2		18-0	fill SL gr		0"	>18	-	-	u
		0-6	CL wk sbk	sexp					
		6-14	C ma fi	exp					
3		16-0	fill LS gr			>20	-	-	u
		0-8	SL wk sbk	sexp					
		8-20	SC ma fi	exp					
4		16-0	fill LS gr						u
		0-6	SL wk sbk	sexp					
		6-20	SC ma fi	exp					

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

# SOIL/SITE EVALUATION

(Continuation Sheet)

DEPARTMENT OF ENVIRONMENT, LAND,  
AND NATURAL RESOURCES  
DIVISION OF ENVIRONMENTAL HEALTH

PROPERTY ID #: \_\_\_\_\_  
DATE OF EVALUATION: \_\_\_\_\_  
COUNTY: \_\_\_\_\_

P R O F I L E  #	.1940 LAND- SCAPE POSITION/ SLOPE %	HORI- ZON 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	
5		0-12	LS gr		24"	>30	-	-	u
		12-30	SC ma fi	exp					
6		0-14	LS gr		26"	>30	-	-	u
		14-30	SC ma fi	exp					
7		0-14	SL gr		24"	>24	-	-	u
		14-24	SC ma fi	exp					
8		0-8	SL gr		16"	>14	-	-	u
		8-18	SC ma fi	exp					
α		0-18	SL gr		>36 free water at 24	>36	-	-	4
		18-36	SL wk sbk	exp.					

COMMENTS: 12-11-95 TJB + JEM evaluated site questions concerning soil wetness + mineralogy. Take Noel Casuthorn to site for consultative visit. talked to Dan Page & explained concerns.

# LEGEND

use the following standard abbrevi

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) SEX <sup>o</sup> (Slightly Expansive) EXP (Expansive)	G (Single Grain) M (Massive) CR (Crumb) GR (Granular) SBK (Subangular Blocky) ABK (Angular Blocky) PL (Platy) PR (Prismatic)
	II	SL (Sandy Loam) L (Loam)	0.8 - 0.6	0.4 - 0.3		
	III	SI (Silt) SICL (Silty Clay Loam) CL (Clay Loam) SCL (Sandy Clay Loam) SLC (Silt Loam Clay)	0.6 - 0.3	0.3 - 0.15		
	IV	SC (Sandy Clay) SIC (Silty Clay) C <sup>o</sup> ay/ O (Organic)	0.4 - 0.1  None	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)

**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**

Inches from land surface to free water or inches from land surface to soil colors with chroma 2 or less - record Munsell color chip designati

**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).

