

Southeastern Soil & Environmental Associates, Inc.

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October 9, 2020

Ms. Carol Buie
388 Bald Cypress Drive
Vass, NC 28394

Re: Soil/site evaluation for subsurface waste disposal, Hampton Woods, Lot 4R
(combination of lots 3A, 4 & 4A), Vera Drive, Harnett County, North Carolina

Dear Ms. Buie,

A soil/site evaluation has been conducted on the aforementioned property at your request. The purpose of the investigation was to determine if soils were acceptable for a subsurface waste disposal system to serve a proposed single-family residence (60' x 60' foundation box; 3-bedroom home). All ratings and determinations were made in accordance with "Laws and Rules for Sanitary Sewage Collection, Treatment, and Disposal, 15A NCAC 18A .1900".

There is only one small soil area that was located on the tract containing soils that have provisionally suitable properties exceeding 20 inches. The site essentially lies on a linear slope (2 - 4%) landscape. Soil borings conducted in most of this area consisted of 8 or more inches of loamy sand underlain by sandy clay loam extending to 40 or more inches. Soil wetness and/or parent material (greater than 50%) was typically observed greater than 20 inches below the soil surface. All other soil characteristics were either suitable or provisionally suitable to at least 36 inches.

In my opinion, based on soil borings and site conditions, the soil area would be designated provisionally suitable for a pump (directional bore under wetlands on site) to a shallow Low-Profile Chamber subsurface waste disposal system (see attached map showing house and drainfield location). The proposed septic design requires a French Drain to be installed above the system on the lot 4/5 property line (drain to be 40" deep with gravel from 6" to 40"). The site contains enough provisionally suitable area, as required, to allow for subsurface repairs (may require pretreatment and/or drip irrigation). A map showing the approximate usable soil location and septic layout of the site accompanies this report. **[Note: No grading, logging, rutting or other soil disturbance can occur in this area prior to obtaining a permit from the Harnett County Health Department. Any site disturbance without a permit can alter the findings of this report and render the area unsuitable.]**

In addition, quite a bit of this property appears to exhibit characteristics of protected Jurisdictional Wetlands. You will need to have a wetland delineation completed prior to any site disturbance to be sure there are no wetland impacts (from driveways, house box and/or septic supply line from house to the proposed septic drainfield). Any proposed impact requires a permit from the US Army Corps of Engineers and NC Division of Water Resources.

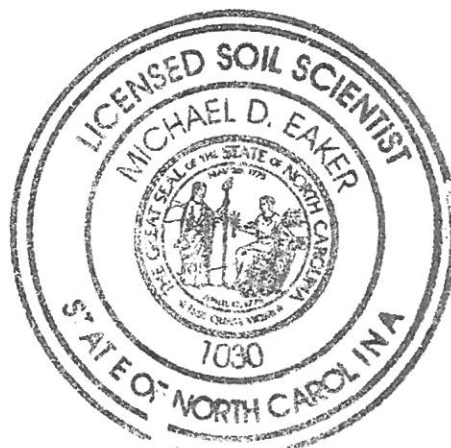
This report, of course, does not guarantee, constitute or imply that a septic improvement permit will be issued by the Harnett County Health Department. Because professional differences of opinion sometimes occur, we recommend obtaining a septic improvement permit from the Harnett County Health Department prior to you or a buyer making any financial commitments for the intended use. This is the only “guarantee” of a site’s suitability.

This report only represents my professional opinion as a licensed soil scientist. Permits will only be granted if health department personnel concur with the findings of this report. The results of the testing discussed in this report do not guarantee or warrant a septic system will function for any specific length of time.

Sincerely,



Mike Eaker
NC Licensed Soil Scientist



SOUTHEASTERN SOIL & ENVIRONMENTAL ASSOC., INC.

PROPOSED SUBSURFACE WASTE DISPOSAL SYSTEM DETAIL SHEET

SUBDIVISION: Hampton Woods
pump to

LOT 4R (combined 3A 4A 4)
pump to

INITIAL SYSTEM: LOW PROFILE CHAMBER

REPAIR LOW PROFILE CHAMBER

DISTRIBUTION: SERIAL

DISTRIBUTION SERIAL

BENCHMARK: 100.0

LOCATION RC 4/5

NO. BEDROOMS: 3

LTAR 0.6 GPD/FT²

LINE	FLAG COLOR	ELEVATION	LENGTH
1A	Y	99.17	40'
1	R	98.75	65'
2	B	98.25	65'
3A	Y	97.50	30'
			<u>200'</u>
3B	Y	97.50	30'
4	R	96.75	60'
5	B	96.08	60'
6	W	95.34	60'
			<u>210'</u>

Initial
system

BY M. EAUEN

DATE 10/2020

TYPICAL PROFILE (INITIAL)

**THERE SHALL BE NO GRADING,
CUTTING, LOGGING OR OTHER SOIL
DISTURBANCE IN SEPTIC AREA**

0-8 LS (UF, used)

9-24+ LT. 100 (F, solid)

cr 2 ≥ 22"

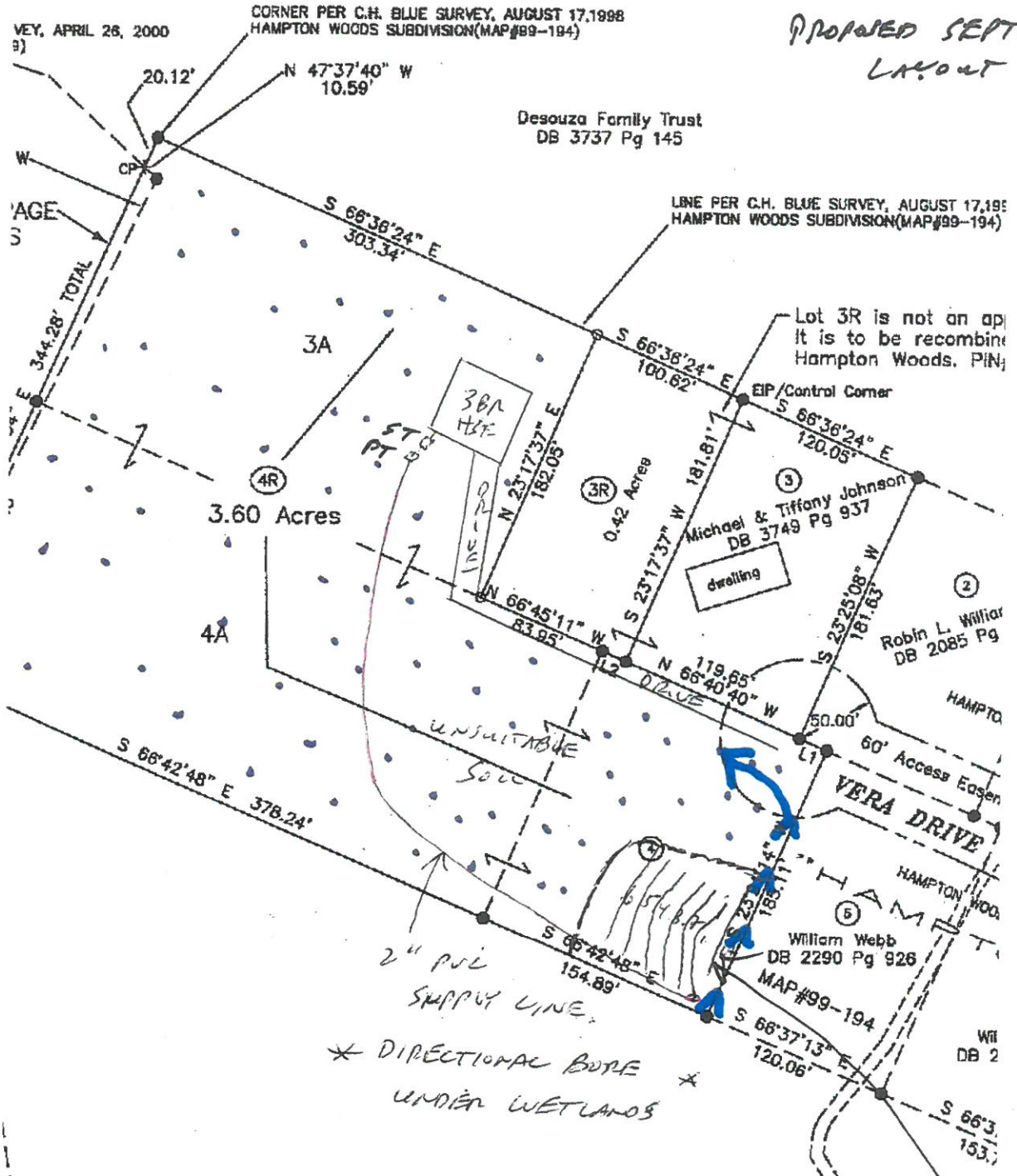
HEALTH DEPARTMENT USE ONLY.

INSTALL AT 8" ADD 6"
COVER

DESIGNS DO NOT GUARANTEE FUNCTIONALITY

**DO NOT REMOVE SOIL WHILE
CLEANING, ANY SOIL REMOVAL
WILL DESTROY THE PROPOSED
SEPTIC AREA**

SOUTHEASTERN SOIL
PROPOSED SEPTIC
LAYOUT



= French Drain to 40"

= UNSUITABLE SOIL

MAY INCLUDE WETLANDS Tract #1
William Webb
DB 2290 Pg 928

LIMITED
USABLE SOIL
AREA FOR
SEPTIC
DRAINFIELD
* (DO NOT DISTURB) *
SEE REPORT

1" = 100'