

# Southeastern Soil & Environmental Associates, Inc.

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January 31, 2020

Ms. Donna Finders  
American Acquisition Group, LLC  
PO Box 10024  
Wilmington, NC 28404

Re: Soil and site evaluation for subsurface waste disposal system location/repair, 235 Sadler Road, Parcel 907, I-5883, I-95 project, Harnett County, North Carolina

Dear Ms. Finders,

A soil investigation and septic system analysis has been completed for the aforementioned parcel at your request. The subject site is located on the I-95 corridor near Dunn, NC as shown on attached map. The purpose of the investigation was to determine potential impacts to an existing subsurface waste disposal system from a NCDOT road widening project. In addition, a determination was to be made if repairs could be accomplished on the remaining property (if impacted). All ratings and determinations were made in accordance with "Laws and Rules for Sanitary Sewage Collection, Treatment, and Disposal, 15A NCAC 18A .1900".

Southeastern Soil and Environmental Associates, Inc. (SSEA) performed this soil evaluation in January 2020. SSEA traversed the property and observed existing system components, landforms (slope, drainage patterns, etc.) and soil conditions through the use of hand auger borings and/or soil probes. In addition, an owner interview was conducted to help locate system components.

Following is a summary of findings:

## **Parcel 907 (Shirley & Grantland Collier)**

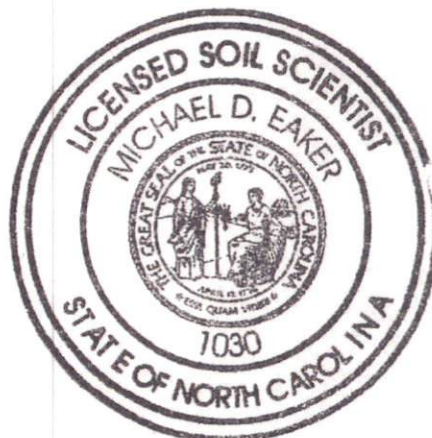
It appears that components of the existing waste disposal system (drainfield in front of house) will be impacted by proposed DOT acquisitions. After the proposed acquisition, there appears to be sufficient soil and space on the remaining parcel to support a new initial septic system and repair area for the existing use (4BR home). The attached map and design sheet show approximate usable soil areas that could support a new initial septic system (pump to 285 linear feet of low-profile chamber with 6" fill cover) and new repair area (pump to approved 25% reduction drainfield; typically 300 linear feet).

**This report, of course, only represents my professional opinion as a licensed soil scientist. Should any other system components be identified, the results of this analysis may be inaccurate or need modification (sometimes buried components such as septic tanks, drainlines and/or wells cannot be seen or located). An Improvement Permit and Construction Authorization must be obtained from the Harnett County Health Department to verify the validity of the attached septic design. SSEA cannot guarantee or warrant that the local health department will concur with the findings of this report. I trust this is the information you require at this time.**

Sincerely,



Mike Eaker  
President



SOUTHEASTERN SOIL & ENVIRONMENTAL ASSOC., INC.

PROPOSED SUBSURFACE WASTE DISPOSAL SYSTEM DETAIL SHEET

SUBDIVISION: Shirley Collier 235  
pump to Sadler Rd

LOT NA

INITIAL SYSTEM: LOW PROFILE CHAMBER

REPAIR APPROVED 25% REDUCTION  
pump to

DISTRIBUTION: SERIAL

DISTRIBUTION SERIAL

BENCHMARK: 100.0

LOCATION BACK LEFT PC (INITIAL)  
FRONT RIGHT PC (REPAIR)

NO. BEDROOMS: 4

LTAR 0.6 GPD/FT<sup>2</sup> (INITIAL)  
0.4 CPOIAT (REPAIR)  
LENGTH

LINE      FLAG COLOR      ELEVATION

Initial  
 11/14

1	Y	100.37	30'
2	B	100.25	45'
3	Y	100.17	50'
4	B	100.08	90'
5	Y	100.08	70'

285' AVAILABLE

6	P	100.17	125'
7	W	99.25	125'
8	P	98.67	50'
9	W	98.34	40'

340' AVAILABLE

BY M FAHER

DATE 01/30/2020

TYPICAL PROFILE (INITIAL) MOST CLINING

- 0-12 CS (VF, w/1)
- 12-20 SLOAM (VF, w/1)
- 20-36+ 6S/16 (VF, w/1)
- CS 2 @ 26"

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

HEALTH DEPARTMENT USE ONLY.  
 DESIGNS DO NOT GURANTEE FUNCTIONALITY

INSTALL AT 8" (AT GRADE)  
 ADD 6" COVER

X INSTALL FRENCH DRAIN (GRAVEL 6-36") AT SHOWN ON MAP



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15883 907 SHIRLEY W COLLIER & GRANTLAND M COLLIER

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## DESIGN PUBLIC MEETING MAP

PROJECT 53083.L1 (1-5883)  
 F.A. PROJECT NHPP-0095(033)74  
**HARNETT COUNTY**  
 IMPROVE I-95 INTERCHANGES AT  
 SR 1808 (JONESBORO ROAD) (EXIT 75) AND  
 SR 1709 (HODGES CHAPEL ROAD) (EXIT 77)  
 OCTOBER 24, 2017  
 ROLL 1 OF 3

