

HAL OWEN & ASSOCIATES, INC.

SOIL & ENVIRONMENTAL SCIENTISTS

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18 March 2021

Mr. Nelson Romero
15 Classic Cove Court
Fuquay-Varina, NC 27526

Reference: Soil Investigation and Septic System Design
Lot 1 Classic Cove Subdivision

Dear Mr. Romero,

A site investigation has been conducted for the above referenced property, which is located on the northern side of Classic Cove Court in the Hector's Creek Township of Harnett County, North Carolina. The purpose of the investigation was to determine if the existing septic system and repair area could be modified to allow for an addition on the existing home.

All ratings and determinations were made in accordance with "Laws and Rules for Sewage Treatment and Disposal Systems, 15A NCAC 18A .1900". This report represents my professional opinion but does not represent permit approval by the Local Health Department. You will need to obtain a permit from them to proceed with your construction.

SOIL INVESTIGATION

The soils were evaluated under moist soil conditions through the advancing of auger borings. A portion of this lot was observed to be underlain by soils rated as provisionally suitable for subsurface sewage waste disposal. These provisionally suitable soils were observed to be firm sandy clay loams to greater than 35 inches and will support long term acceptance rates of 0.4 gal/day/sqft. A soil profile description is attached to this report.

EXISTING SEPTIC SYSTEM

Hal Owen & Associates Inc. reviewed the operation permit issued by the Harnett County Department of Public Health (Permit 23494) and identified the existing septic system at the site. The home does not have a foundation drain and it utilizes the public water supply. The existing septic system utilizes a 1000 gallon septic tank and a 1000 gallon pump tank from which effluent is pumped to a distribution box to three 100-foot long accepted status (EZ-flow) drainlines. It appears the three drainlines were installed off-contour parallel to the eastern property line in the back yard.

The addition on the back of the home can be no more than 20 feet from the house unless the septic supply line is moved. The supply line must be at least five feet from the foundation. Care should be taken during construction of the addition to avoid the existing tanks and

drainfield. It is recommended that a staked line or protective fence be placed around the tanks and drainfield prior to construction to eliminate any potential damage to system components.

REPAIR SEPTIC SYSTEM DESIGN

The repair septic system is proposed as a pump driven system to 2 X 75 feet of Prefabricated Permeable Block Panel System (PPBPS). The panels should be installed off-contour with trench bottom depths at 17 to 23 inches below surface. The addition of up to 6 inches of topsoil may be necessary to completely cover the system at the northern end where the lines are shallow.

Potential septic system drainlines have been demonstrated with various colored pin flags in the front yard. It is important that you do not disturb the repair area.

SYSTEM MAINTENANCE

It is recommended that care be taken to preserve the life of your existing septic system. The septic tank, pump tank, and distribution boxes should be kept accessible for pumping and adjustment. Your septic system should be inspected periodically and the septic tank pumped out every 2 to 5 years by a professional contractor. Practicing water conservation in the home, such as promptly repairing leaky fixtures and running washing machines and dishwashers only when full, will help to avoid overloading the septic system. Also, disposal of oils, fats, and grease into the septic system should be avoided because they could clog drainlines and conveyance pipes. A list of other useful suggestions can be found at <https://content.ces.ncsu.edu/septic-system-owners-guide>

This report and the attached septic system design information will need to be submitted to the Local Health Department for review and the permitting process. I appreciate the opportunity to provide this service and hope to be allowed to assist you again in the future. If you have any questions or need additional information, please contact me at your convenience.



Sincerely,

Krissina B. Newcomb

Krissina B. Newcomb

Hal Owen

Hal Owen
Licensed Soil Scientist

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

APPLICANT: Nelson Romero OWNER: AGENT: PHONE: 910-89-5812
 ADDRESS: 15 Classic Cove Court
Fuquay-Varina, NC 27526 PROPOSED FACILITY: _____
 PROPOSED DAILY FLOW (.1941): 360 gpd
 PROPERTY SIZE: _____
 LOCATION OF SITE: 15 Classic Cove Court, Fuquay-Varina
 COUNTY: Harnett PROPERTY ID # _____
 WATER SUPPLY: On-Site Well , Community Well , Public , Other _____
 EVALUATION METHOD: Auger Boring Pit
 EVALUATED BY: Hal Owen, LSS 1102 DATE EVALUATED: _____

PROFILE 1

HORIZON	DEPTH (IN)	MATRIX	MOTTLES	MOTTLES ABUNDANCE/ SIZE/CONTRAST	.1941			CONSISTENCE MOIST
					(a)(1) TEXTURE	(a)(2) STRUCTURE	(a)(3) MINEROLOGY	
A	0-10	10YR 5/3			LS	GR		FR
E	10-12	2.5Y 7/4			LS	GR		FR
Bt	12-35	10YR 5/6			SCL	SBK		FI
.1940 LANDSCAPE POS./ SLOPE%			LS		COMMENTS:			
.1942 SOIL WETNESS CONDITION			35"					
.1943 SOIL DEPTH								
.1956 SAPROLITE CLASS			NA					
.1944 RESTRICTIVE HORIZON			NA					
PROFILE CLASSIFICATION			Provisionally suitable					
PROFILE LTAR			0.4					