HAL OWEN & ASSOCIATES, INC.

SOIL & ENVIRONMENTAL SCIENTISTS

P.O. Box 400, Lillington, NC 27546-0400 Phone (910) 893-8743 / Fax (910) 893-3594 www.halowensoil.com

Site Address: 297 Chartres Street, Fuquay Varina,	NC 27526
County: Harnett	PIN 0613-86-3256
LHD Reference: SFD2409-0055	HOA Permit #: HOA-AOWE-2409-08
Applicant:	
Name: BVA Builders, Inc	
Address: 1300 Benson Road, Ste. 110 Gar	mer, NC 27529
, Anna B. Furd	, acknowledge receipt of the
Licensed Soil Scientist Report which include	es:
Signed and sealed copy of the AO	WE's report that includes the information in G.S.
130A-336.2(k)	
Authorization to Operate	
Operation and Management Program	
I accept the septic system installation and	understand that I will be responsible for continued
adherence to the Operations and Managemen	at program established by the AOWE.
Signature B- And	3/11/25

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11 March 2025

BVA Builders, Inc. 1300 Benson Road, Ste. 110 Garner, NC 27529

Reference: LSS Report for Authorization to Operate (ATO) 297 Chartres Street, Fuquay Varina, NC 27526 LHD # SFD2409-0055

AOWE # HOA-AOWE-2409-08

Dear BVA Builders, Inc.,

This LSS Report is being provided pursuant to and meets the requirements of G.S. 130A-336. This report is based on information provided by the property owner or their representative. Hal Owen & Associates, Inc. is not responsible for false or misleading information that may have been provided to us in pursuit of this permit, nor for concealed conditions on the property. Hal Owen & Associates Inc. does not warrant that the septic system will continue to function satisfactorily in the future.

The septic system for the above referenced property has been installed and was inspected by Hal Owen & Associates staff on 24 January 2025. The system has been installed in compliance with applicable NC General Statutes, Rules for Sewage Treatment and Disposal, and all conditions of the AOWE Permit. The system was installed in conformance with the Permit design and specifications. Enclosed with this report are the Septic System Final Inspection Report, As-Built map (Figure 1), and Operation and Management Program.

You will need to sign a document confirming receipt of this report and acceptance of the installed system (pg 1) and submit this report to the Local Health Department (LHD). The LHD shall issue a certificate of occupancy upon receipt of a complete ATO.

I appreciate the opportunity to provide this service. If you have any questions or need additional information, please contact me at your convenience.





Sincerely,

Hal Owen

Licensed Soil Scientist

Authorized Onsite Wastewater Evaluator

Contacts

APPLICANT

Applicant Name	BVA Builders, Inc.	
Mailing Address	1300 Benson Road, Ste. 110	
Telephone Number	919-779-1890	
E-mail Address	aford@vfgreality.com	

SOIL SCIENTIST

Company Name	Hal Owen & Associates, Inc.	
Mailing Address	PO Box 400, Lillington, NC 27546	
Telephone Number	910-893-8743 Fax: 910-893-3594	
E-mail Address	hal@halowensoil.com	
Licensed Soil Scientist	Hal Owen, LSS#1102 and AOWE# 10036E	
System Designer	Steven Boor	
System Inspector	Jocelyn Proulx #9943I	

INSTALLER

Company Name	Pro Septic Tanks, LLC
Mailing Address Telephone Number	136 Sugartree Ln, Mount Olive, NC 28365 (919)273-1784
E-mail Address proseptictanks@gmail.com Installer & Certification # Litzy Herrera #11274	

LOCAL HEALTH DEPARTMENT

Agency Name	Harnett County Health Department
	Environmental Health Division
Mailing Address	307 W Cornelius Harnett Blvd, Lillington, NC 27546
Telephone Number	(910) 893-7547
LHD Application #	SFD2409-0055

Septic System Final Inspection Report

Property Identifiers

County	Harnett	PIN	0613-86-3256
Size (Acre)	.49	County PID	050613 1055
Site Address	297 Chartres S	Street, Fuquay Varina, No	C 27526
S/D Name and Lot#	Captain's Landing Block 12 Lot 45		

System Description

Facility Type	Single Family Residence
Basis of flow	2 bedrooms
Wastewater Strength	Domestic
Design Wastewater Flow	240 gpd
Water Supply	Public
.0403 Eng Low Flow	No
Soil LTAR	0.35
System Type	IIIbg

Installation

Date	24 January 2025	
System Inspector	Jocelyn Proulx, #9943I	
Installer	Litzy Herrera #11274	

Septic Tank:

Volume (gallons)	1000	
Brand and Tank ID#	MCP STB 814	
Date of Manufacture	NA	
Certified watertight	*See attached certificate of water tightness*	
Distance to Structure	7'	
Elevation of tank inlet	5' 2"	
Elevation of tank outlet	5' 4"	

Effluent Filter:

	Make and Model	Polylok PL-68
Pump	Tank:	
	Volume (gallons)	1000
	Brand and Tank ID#	MCP PT 53
	Date of Manufacture	NA
	Certified watertight	*See attached certificate of water tightness*
	Elevation of tank inlet	5' 6"
	Elevation of tank outlet	5' 9"

Pump:

Make and Model	Zoeller 152		
Pump Sys- Elevation Head	11.78		
Pump Sys- Friction Loss	1.64		
Pump Sys- Design Head	2.0		
Pump Sys- TDH	15.42		
GPM (actual)	23.10		

Control Panel:

Manufacturer APS Simplex Model No: APS120-AB

Distribution:

Supply Line Length to Distribution	80'
Supply Line Diameter	2"
Distribution Device:	Pressure Manifold
Number of outlets (laterals)	3

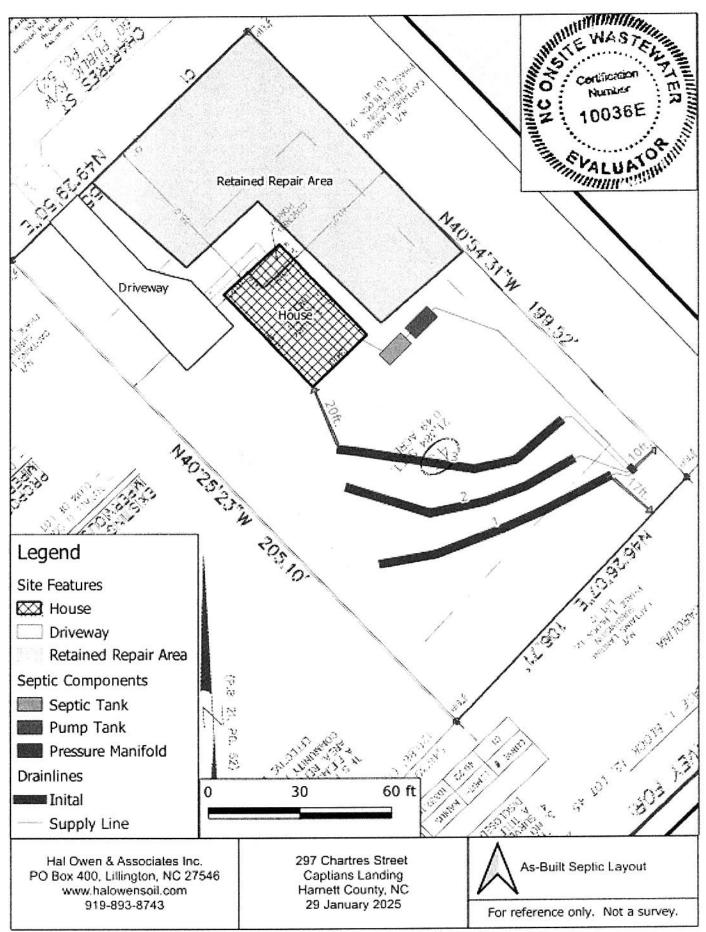
Drainfield:

Type	Low Profile Chamber
Distance to Structure	20'
Distance to Well	NA

Trench Depth Trench Spacing		10" 9'	Trench width Aggregate	36" chamber		
	Length (ft)	Start	Middle	<u>End</u>		
Line 1	78	4' 6"	4' 6"	4' 6"		
Line 2	78	6' 5"	6' 5"	6' 5"		
Line 3	78	7' 1"	7' 1"	7' 1"		
Total	234					

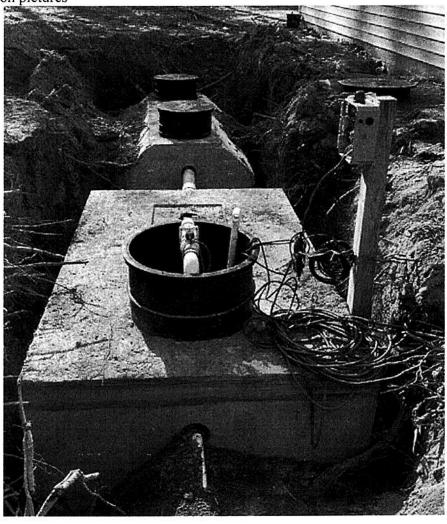
All elevations are given as relative grade rod reading.

Notes:

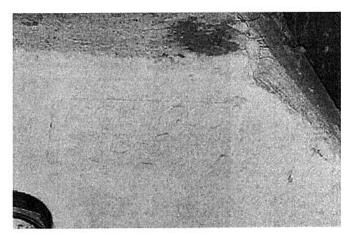


LSS Report for Authorization to Operate (ATO) 297 Chartres St

Installation pictures

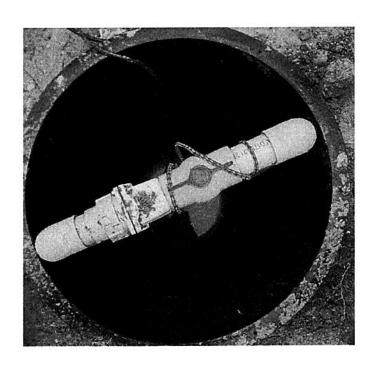
















Operation and Management Program

In accordance with G.S. § 130A-336.2, the owner is responsible for continued adherence to the operations and management program. Septic systems safely treat and dispose of wastewaters produced in the bathroom, kitchen, and laundry. These wastewaters may contain disease-causing germs and pollutants that must be treated to protect human health and the environment. Septic systems must be properly used, operated, and maintained by the homeowner to assure the long-term performance of the system.

F	F	R	M	IT	CO	ND	ITI	0	VS.

- I. Performance: System shall perform in accordance with Section .1300.
- II. Monitoring: As required by Section .1300.
- III. Maintenance: Ground absorption sewage treatment and disposal systems shall be checked, and the contents of the septic tank removed, periodically from all compartments, to ensure proper operation of the system. The contents shall be pumped whenever the solids level is found to be more than 1/3 of the liquid depth in any compartment.

	Subsurface system operator required? Yes	No_	X	
	If yes, see attached sheet for additional operation	n conditio	ns, maii	ntenance and reporting
IV.	Operation:			

TABLE XXXII. Management responsibilities based on wastewater system classification type and description.

System Classification Type and Description	LHD Compliance Inspection Frequency	Management Entity	Management Entity Minimum Maintenance Inspection Frequency			
IIb- Accepted wastewater gravity system	N/A	Owner	N/A			
IIIg- Other non- conventional systems	N/A	Owner	N/A			

KNOW WHERE YOUR SEPTIC SYSTEM IS LOCATED

Your property has an onsite subsurface sewage waste disposal system. Familiarize yourself with the location of the system including the tanks, distribution devices, and disposal fields (including repair area). These areas shall be protected from excavation, building additions, outbuildings, pool construction, and soil disturbing activities. Prohibit vehicular traffic over the ground absorption field.

DAY-TO-DAY MANAGEMENT

Don't use too much water.

- The drainfield does not have unlimited capacity.
- Typical daily water use is 50 gallons per person.
- The soil drainfield usually has a maximum daily design capacity of 120 gallons per bedroom, even for short periods of time.
- Overloads can occur seasonally, daily, or on the weekend.
- Water conservation will extend the life of your system.
- Repair dripping faucets and toilets.

Limit disposal to sewage.

- Don't use your septic tank as a trash can for cigarette butts, tissues, sanitary napkins, cotton swabs, cat box litter, coffee grounds, or disposable diapers.
- Restrict the use of your garbage disposal. These add quite a lot of extra solids.
- Don't pour grease or cooking oil down the drain.
- Don't poison your system with harmful chemicals such as solvents, oils, paints, thinners, discarded medications, disinfectants, pesticides, poisons, and other substances.
- Save money. Commercial septic tank additives are usually not necessary.

Protect the system from physical damage (site maintenance).

- Keep the soil over the drainfield covered with vegetation to prevent soil erosion.
- Don't drive vehicles over the system.
- Avoid construction over the system and repair area.
- Don't cover the tank or drainfield with asphalt or concrete.
- Do not install irrigation systems over your drainfield as these could damage the system and/or hydraulically overload the soils.

Dispose of all wastewater in an approved system.

- Don't put in a separate pipe to carry wash waters to a side ditch or the woods. This is illegal.
- Don't connect pipes from air conditioners or ice makers to the septic system.

PERIODIC MAINTENANCE AND REPAIR

Home and yard (site maintenance):

- Protect and maintain the site of your septic tank and drainfield.
- In the drainfield area, cut down and remove trees that like wet conditions. This includes willows, elms, sweetgums, and some maples.
- ◆ Landscape the yard to divert surface waters away from the tank and drainfield. Eliminate depressional areas within the drainfield.
- Be sure that the water from the roof, gutters, and foundation drains does not flow over the system.
- Maintain drainage ditches, subsurface tiles, and drainage outlets so that water can flow freely from them.

Septic tank:

- Ensure tank risers remain accessible for measuring and pumping solids as well as cleaning the effluent filter.
- ◆ Measure how quickly sludge and scum accumulate in the tank. Pump septage when solids occupy 1/3 to 1/4 of the liquid capacity of the tank (frequency 1 to 3 years).
- Don't wait until your drainfield fails to have your tank pumped. By then, the drainfield may be ruined. With septic systems, an ounce of prevention is worth a ton of cure!

Table 1. Estimated septic tank inspection and pumping frequency (in years). Tank Size (gallons)

	Number of People Using the System								
Tank Size (gallons)	1	2	4	6	8				
900	11	5	2	1	<1				
1000	12	6	3	2	1				
1250	16	8	3	2	1				
1500	19	9	4	3	2				

Experience and study have shown that pressure manifold systems require routine maintenance in order to function properly. Items 1, 4, and 6 are also recommended for conventional septic systems. The maintenance schedule frequency is as follows:

System Component	Frequency	Maintenance
Septic Tank	6-12 months	Check riser condition (must be accessible from ground surface), excess in/exfiltration, entry of water at riser, and solids accumulation. Check and clean septic tank filter. Pump septage when 1-3 to ¼ of
	1-3 years	the liquid capacity of the tank is occupied by solids.
Pump or Dosing Tank	6-12 months	Check riser conditions (must be accessible from ground surface), excess in/exfiltration, entry of water at riser, and solids accumulation. Pump sludge accumulation as required and when septic tank is pumped. Check pump(s), controls, floats, electrical connections, and alarm for proper operation. Wash (hose) sludge accumulation from pump housing.
Supply Lines (Manifold)	6-12 months	Check for settling, pipe exposure and leakage
Ground Absorption Field	1-4 weeks	Maintain vegetative cover (mow grass and remove weeds and brush). Check for settling, crosion
	6-12 months	and surfacing effluent. Check site drainage, eliminate low or settled areas and divert surface or shallow groundwater movement around fields.
Pressure Manifold	6-12 months	Flush sludge from pressure manifold (any discharge sludge and effluent is to be treated with a chlorine solution). Check and reset pressure head.
General	At all times	Prohibit vehicular or equipment traffic on ground absorption field. Prohibit tillage (gardening) or other soil disturbance over septic field. Practice water conservation to reduce wastewater load on system. Do not permit entry of grease and non-domestic waste to system. Use of garbage disposal is prohibited. Addition of chemical or biological additives has not been demonstrated to be necessary to maintain proper system function. Prevention of root intervention on lateral lines and trenches may be necessary on certain sites. Surface and groundwater diversion structures must be maintained.

SIGNS OF POSSIBLE SEPTIC SYSTEM PROBLEMS

- Sewage backing up into your toilets, tubs, or sinks.
- Slowly draining fixtures, particularly after it has rained.
- The smell of raw sewage accompanied by soggy soil or sewage discharged over the ground or in nearby ditches or woods.
- Note: pump systems sewage may come to the ground surface when the pump is turned on and then disappear after the pump turns off. This is still a system failure and must be repaired.
- An alarm flashing (red light) or beeping in the house or in the yard indicating a pump is not working properly or that the water level in a pump tank is too high and close to failure.
- ♦ Don't attempt to repair a failing system yourself. Get a repair permit and hire an experienced contractor.

REGULATIONS AND PRECAUTIONS:

 Sewage contains germs that can cause diseases. Never enter a septic tank. Toxic and explosive gases in the tank present a hazard. Old tanks may collapse. Electrical controls present a shock and spark hazard. Secure the septic tank lid so that children cannot open it.

For more information about septic systems, contact your county Extension agent or local health department. https://content.ces.ncsu.edu/septic-system-owners-guide

PREVENTIVE MAINTENANCE RECORD

Your Se	eptic System Pumper			
1	Name:		 	
I	Address:	 		
	Phone:			
Date Sy	stem Installed:			
Date	Work Done	 Firm	Cost	
	A. W. Law Mr. Barrier 1981	 		-



CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY) 1/17/2025

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must have ADDITIONAL INSURED provisions or be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER					CONTACT NAME: Bertha Sanchez Cruz							
Pov	ells	Insurance				PHONE (A/C, No, Ext): (910) 590-2800 FAX (A/C, No): 9105903600						3600
P.O	. Bo	x 376				ADDRESS: bcruz@powellsinsurance.com						
19399650								URER(S) AFFOR	RDING COVERAGE			NAIC #
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	-	CLAIMS-MADE A OCCUR							MED EXP (Any one person)		s	15,000
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A		J			BK306223493		09/13/2024	09/13/2023	GENERAL AGGREGATE	_	s S	2,000,000
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CER	TIF	ICATE HOLDER	-			CANC	ELLATION					
Hal Owen & Associates Inc.				THE	EXPIRATION D	DATE THEREO	ESCRIBED POLICIES BI OF, NOTICE WILL BE DE Y PROVISIONS.			:D BEFORE		
		PO BOX 400				AUTHOR	RIZED REPRESE	NTATIVE				
		Lillington NC 27546				Вен		chez Cruz				
							6	1088-2015 A	CORD CORPORATIO	M	All righ	its reserved

MITCHELL CONCRETE PRODUCTS

120 Panish Drive • Smithfield, NC 27577

MANUFACTURERS OF
SEPTIC TANKS

RE: 297 Chartres St. Fugues

To whom it may concern:

This tank has been water-tested at our manufacturing facility. It will meet any leak-test standards set by the state of North Carolina.

Thank you,

Mitchell Concrete Products