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

Project Name:			
County:	LHD Reference:		
Provided to:			
Name:			
Address:			
I,		,_acknowledge	receipt of the
Licensed Soil Scientist l	Report which includes:		
• Signed and seal	ed copy of the AOWE's report the	nat includes the	information in G.S.
130A-336.2(k)			
• Operation and M	Ianagement Program		
Authorization to	Operate		
I accept the septic syst	em installation and understand tha	t I will be respon	nsible for continued
adherence to the Operati	ions and Management program estal	blished by the AC)WE.
Signature			ate

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5 February 2025

Beth Stephenson 13429 Old Stage Road Willow Spring, NC 27592

Reference: LSS Report for Authorization to Operate (ATO)

8461 Old US 421 Lillington NC 27546

LHD # SFD2409-0003 AOWE # HOA-A2-2409-03

Dear Ms. Stephenson,

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 9 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	Beth Stephenson
Mailing Address	13429 Old Stage Road
	Willow Spring, NC 27592
Telephone Number	252-333-2047
E-mail Address	twomorehomesllc@gmail.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	Jocelyn Proulx	
System Inspector	Jocelyn Proulx #9943I	

INSTALLER

Company Name	Gene's Backhoe Service Inc.
Mailing Address	1340 Two Claude Road
_	Willow Spring, NC 27592
Telephone Number	(919) 868-2754
Installer & Certification #	Tyler Nordan #3795

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 #	SFD2409-0003

Septic System Final Inspection Report

Property Identifiers

County	Harnett	PIN	0610-15-8515
Size (Acre)	1.02	County PID	130610 9000 03
Site Address	8461 Old US 421, Lillington, NC 27546		
S/D Name and Lot#	# Larry Taylor Subdivision Lot 2		

System Description

Facility Type	Single Family Residence
Basement	No
Basis of flow	3 Bedrooms
Wastewater Strength	Domestic
Design Wastewater Flow	360 gpd
Water Supply	Public
.0403 Eng Low Flow	No
Soil LTAR	0.60
System Type	IIIbg

Installation

Date	Drainlines installed on 9 January 2025 Pump final on 3 February 2025
System Inspector	Jocelyn Proulx, #9943I
Installer	Tyler Nordan #3795

Septic Tank:

1000
MCP-STB 814
NA
NA
7'
4' 8"
4' 11"

Effluent Filter:

Make and Model	Polylok PL-68	
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Pump Tank:

Volume (gallons)	1000
Brand and Tank ID#	MCP-PT 53
Date of Manufacture	NA
Certified watertight	NA
Elevation of tank inlet	5' 6"
Elevation of tank outlet	5' 11"

Pump:

Make and Model	Zoeller BN152
Pump Sys- Elevation Head	8.20
Pump Sys- Friction Loss	1.85
Pump Sys- Design Head	2.0
Pump Sys- TDH	12.05
GPM (actual)	24.64

Control Panel:

Manufacturer	APS Simplex Control Panel Model No. APS120AB

Distribution:

Supply Line Length to Distribution	80'
Supply Line Diameter	2"
Distribution Device:	NA

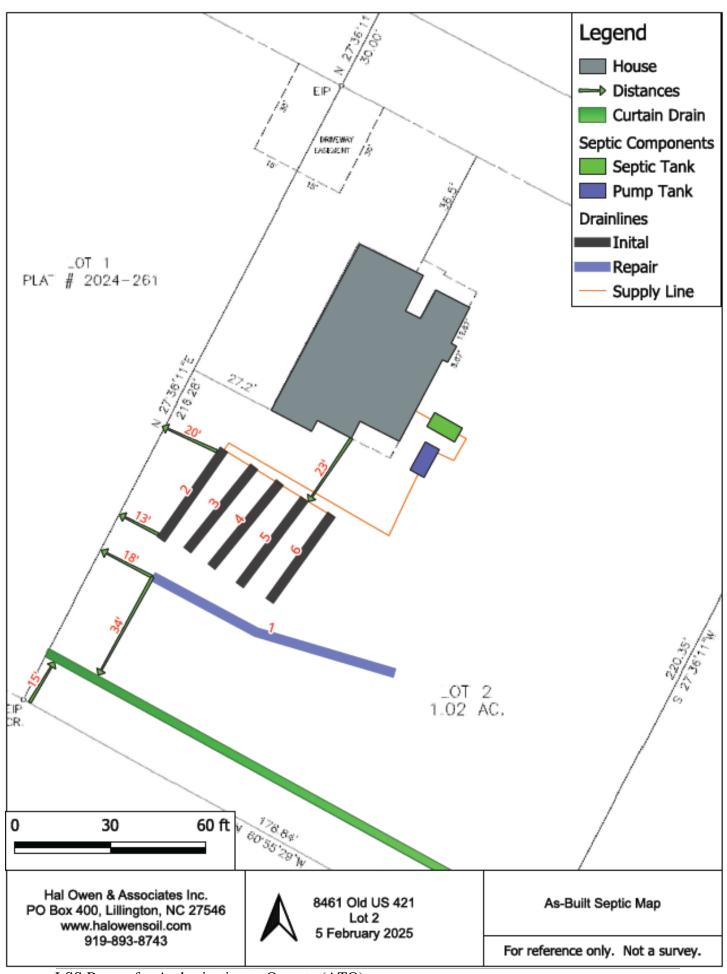
Drainfield:

Type	Quick4 Standard Chamber
Distance to Structure	23'
Distance to Well	NA

Trench Deptl	h	20"	Trench width	36"		
Trench Spacing		9' Aggregate		chamber		
	Length (ft)	<u>Start</u>	<u>Middle</u>	<u>End</u>		
Line 2	30	4' 2"	4' 2"	4' 2"		
Line 3	Line 3 30		4' 3"	4' 3"		
Line 4	30	4' 7"	4' 7"	4' 7"		
Line 5	30	4' 8"	4' 8"	4' 8"		
Line 6	30	4' 11"	4' 11"	4' 11"		
Total 150						

All elevations are given as relative grade rod reading.

Notes:



LSS Report for Authorization to Operate (ATO) 8461 Old US 421 LHD # SFD2409-0003 5 Fe

Installation pictures





LSS Report for Authorization to Operate (ATO) 8461 Old US 421 LHD # SFD2409-0003 5 Fe











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.

D		N ATT	\mathbf{r}	TT	TITI	AV.	TO
\mathbf{P}	HK.	N/I I		JI)		ON	1.

- I. Performance: System shall perform in accordance with Rule .1961.
- II. Monitoring: As required by Rule .1961.
- 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.

	urface system operator required? Yes _	110_	Λ	
If yes	, see attached sheet for additional oper	ration condition	ns, mai	ntenance and reporting
IV. Oper	ation:			

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)

1	1	1 1	0 1 5	•	<i>\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\</i>			
	Number of People Using the System							
Tank Size (gallons)	1	2	4	6	8			
900	11	5	2	1	<1			
1000	12	<mark>6</mark>	3	2	1			
1250	16	8	3	2	1			
1500	19	9	4	3	2			

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

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
Sopula Tumi	0 12 111011111	accessible from ground surface),
		excess in/exfiltration, entry of
		water at riser, and solids
		accumulation.
		Check and clean septic tank filter.
	1.0	Pump septage when 1-3 to \(^1\)4 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
	C 10 41	brush). Check for settling, erosion
	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 <u>not</u>
		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.

PREVENTIVE MAINTENANCE RECORD

Your Septic System Pumper		
Name:		
Address:		
Phone:	Email:	
Date System Installed:		
Date Work Done	Firm	Cost

OP ID: CP



CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY) 04/29/2024

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.

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										PERSONAL & ADV INJURY	\$	1,000,000
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		OTHER:									\$	
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