

North Carolina Onsite Wastewater Contractor Inspector Certification Board Authorized Onsite Wastewater Evaluator Permit Option for Non-Engineered Systems Notice of Intent (NOI) to Construct

_X_New ExpansionRepair RelocationRelocation of Repair Area
Owner or Legal Representative Information: Name: Luke Cockerham Mailing address: 4168 Saint Andrews Church Rd City: Sanford State: NC Zip: 27332 Phone: 919-343-8461 Email: lukecockerham3@gmail.com
Authorized Onsite Wastewater Evaluator Information: Name: Hal Owen Mailing address: PO Box 400 City: Lillington State: NC Zip: 27546 Phone: 910-893-8743 Email: hal@halowensoil.com
Site Location Information: Site address: 1624 Cool Springs Rd, Lillington, NC 27546 Tax parcel identification number or subdivision lot, block number of property: Tract 1; PIN 0611-65-7331.000 County: Harnett
System Information: Wastewater System Type: Illb (Accepted wastewater gravity system) Daily Design Flow: 360 gpd Saprolite System: Yes x No Subsurface Operator Required: Yes x No Water Supply Type: Private Well x Public Water Supply Spring Other:
Facility Type: X Residential 3 # Bedrooms 6 Maximum # of Occupants Business Type of Business and Basis for Flow: Public Assembly Type of Public Assembly and Basis for Flow:
Required Attachments: Plat or Site Plan Evaluation of Soil and Site Features by Licensed Soil Scientist
Attest: On this the 7 day of October, 2025 by signature below I hereby attest that the information required to be included with this NOI to Construct is accurate and complete to the best of my knowledge. Furthermore, I hereby attest that I have adhered to the laws and rules governing onsite wastewater systems in the state of North Carolina. This NOI shall expire on 7 day of October , 2030
Signature of Owner or Legal Representative: HUNTER LUKE COCKERHAM
Disclosure: The owner may apply for a building permit for the project upon submitting a complete NOI to Construct and the fee required (if any) to the local health department. An onsite wastewater system authorized by an authorized onsite wastewater evaluator shall be transferable to a new owner with the consent of the authorized onsite wastewater evaluator.
Local Health Department Receipt Acknowledgement: Signature of Local Health Department Representative: Date:



OP ID: TOT

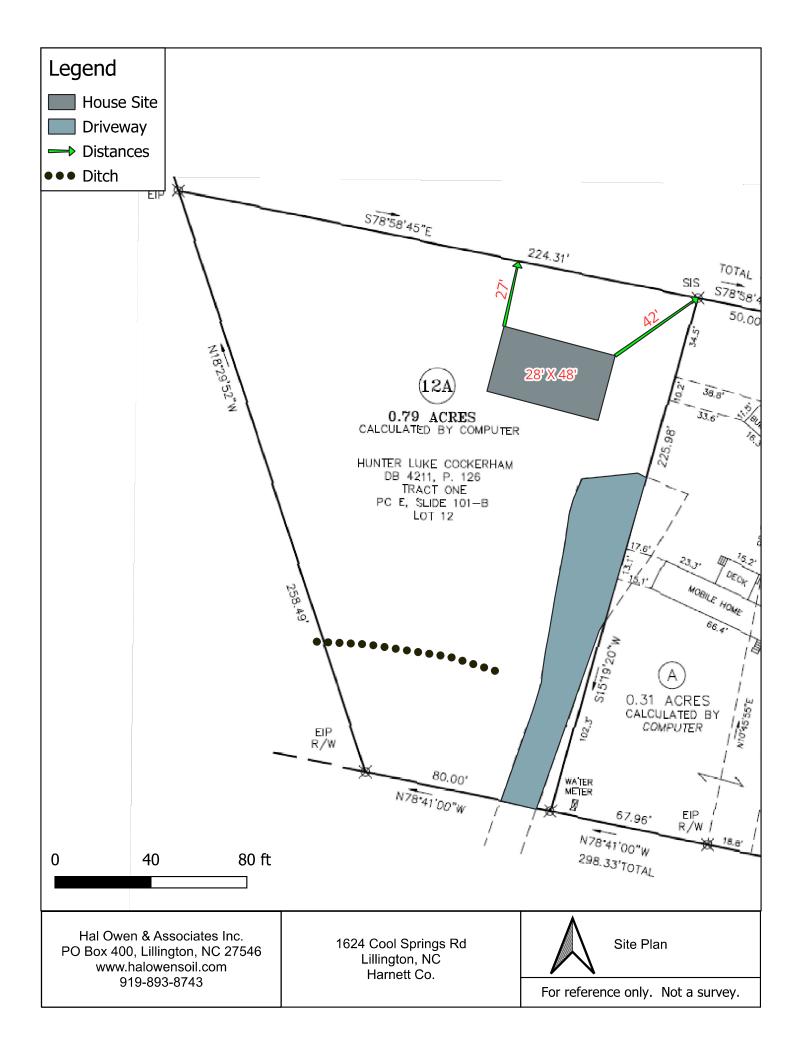


CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY) 09/04/2025

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.

	nis certificate does not confer rights	.5 1115		0-893-5707	CONTA	CT SHARON	N WOODY				
INSU	URANCE SERVICE CTR -LILLING		0.0	00000101	NAME: PHONE	o, Ext): 910-89	33-5707		FAX	910-89	93-2077
	LINGTON BRANCH OFFICE Box 1565				(A/C, N	_{SS:} swoody(@iscfav.co	m	(A/C, No):		2011
LILL	LINGTON, NC 27546				ADDRE						
DAN	NEL L. BABB							DING COVERAGE			NAIC #
						RA:STARS	TONE NAT	IONAL			
HAL	OWEN & ASSOCIATES, INC.				INSURE						
PO E LILL	BOX 400 INGTON, NC 27546				INSURE						
					INSURE						
					INSURE						
					INSUR	RF:					
				E NUMBER:	<i>(</i> E DEE	TALLOGUED TO	. THE INCHES	REVISION NU		JE 50	IOV PEDIOD
	HIS IS TO CERTIFY THAT THE POLICIES IDICATED. NOTWITHSTANDING ANY R										
CI	ERTIFICATE MAY BE ISSUED OR MAY	PERTA	AIN,	THE INSURANCE AFFORD	ED BY	THE POLICIE	S DESCRIBE	D HEREIN IS S			
L) INSR	XCLUSIONS AND CONDITIONS OF SUCH				BEEN		PAID CLAIMS				
LTR	TYPE OF INSURANCE	ADDL S INSD	WVD	POLICY NUMBER		POLICY EFF (MM/DD/YYYY)	(MM/DD/YYYY)		LIMITS		
	COMMERCIAL GENERAL LIABILITY							DAMAGE TO REA		\$	
	CLAIMS-MADE OCCUR							DAMAGE TO REN PREMISES (Ea ou	ccurrence)	\$	
								MED EXP (Any on	e person)	\$	
								PERSONAL & AD	V INJURY	\$	
	GEN'L AGGREGATE LIMIT APPLIES PER:							GENERAL AGGR	EGATE	\$	
	POLICY PRO- LOC							PRODUCTS - CO	MP/OP AGG	\$	
	OTHER:							COMBINED SING	LETIMIT	\$	
	AUTOMOBILE LIABILITY							(Ea accident)	LL LIIVII I	\$	
	ANY AUTO							BODILY INJURY (Per person)	\$	
	OWNED AUTOS ONLY SCHEDULED AUTOS							BODILY INJURY (\$	
	HIRED AUTOS ONLY NON-OWNED AUTOS ONLY							PROPERTY DAM. (Per accident)	AGE	\$	
										\$	
	UMBRELLA LIAB OCCUR							EACH OCCURRE	NCE	\$	
	EXCESS LIAB CLAIMS-MADE							AGGREGATE		\$	
	DED RETENTION \$							DED	OTU	\$	
	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY							PER STATUTE	OTH- ER		
	ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH)	N/A						E.L. EACH ACCID	ENT	\$	
	(Mandatory in NH) If yes, describe under							E.L. DISEASE - E	A EMPLOYEE	\$	
	DÉSCRIPTION OF OPERATIONS below			400000440004		04/07/0005	04/07/0000	E.L. DISEASE - PO	OLICY LIMIT	\$	4 000 000
Α	PROFESSIONAL LIAB.			42ESP00143901		01/2//2025	01/27/2026	_	_		1,000,000
								AGGREGATE	=		2,000,000
DES	CRIPTION OF OPERATIONS / LOCATIONS / VEHIC	LES (A	COR	D 101, Additional Remarks Schedu	ile, may b	e attached if mor	re space is requi	red)			
CEI	RTIFICATE HOLDER				CAN	CELLATION					
								ESCRIBED POL EREOF, NOTIC			
	LIKE COCKEDHYM							CY PROVISIONS		,c DE	FIAEVED IN
	LUKE COCKERHAM 4168 SAINT ANDREWS (HIIP	CH	RD							
	SANFORD, NC 27332	,, 10 IX		IND	AUTHO	RIZED REPRESE	NTATIVE				
	2 C.(2), 110 21 002					Taylor Wal	lace				
					I	yu / www	-				



AOWE EVALUATION

HOA-AOWE-2509-7

Issue date 10/7/2025

Expiration 10/7/2030

APPLICANT INFORMATION

Name	Luke Cockerham				
Mailing Address	4168 Saint Andrews Church Rd, Sanford, NC 27332				
E-mail Address	lukecockerham3@gmail.com	Telephone Number	919-343-8461		

PROPERTY IDENTIFIERS

County	Harnett	PIN	0611-65-7331.000
Size (Acre)	0.79	County PID	130611002413
Site Address 1624 Cool Springs Rd, Lillington, NC 27546			
S/D Name and Lot#	Tract 1		

PROJECT INFORMATION

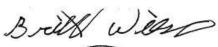
Wastewater System	New		.0403 Eng Low Flow	No
Wastewater Strength	Domestic		Effluent Standard	DSE
Facility Type	Residential		Water Supply	Public Water
Design Wastewater Flow	360 gpd		gal/unit	120
Basis for Flow	3	bedrooms	max occupancy	6
Basement	No		Fixtures in basement?	No
Crawl Space	Yes		Slab Foundation	No

CONSULTANT INFORMATION

Company Name	Hal Owen & Associates, Inc.		
Mailing Address	PO Box 400, Lillington, NC 27546		
E-mail Address	hal@halowensoil.com	Telephone Number	910-893-8743
Licensed Soil Scientist	Britt Wilson, LSS#1351	AOWE	Hal Owen, #10036E

A soil and site evaluation has been conducted for the referenced property for the purpose of permitting a subsurface wastewater system. This evaluation was prepared based on information provided by the applicant to include the basis for design flow, proposed structure location(s), and property boundaries. Any false, inaccurate, or incomplete information provided by the applicant, owner, or legal representatives may result in denial or revocation of applications, approvals, or permits.

This AOWE Evaluation is being submitted pursuant to and meets the requirements of G.S.130A-336.2. This evaluation includes a soil and site evaluation, specifications, plans, and reports for the site layout and construction of a proposed onsite wastewater system by an Authorized On-Site Wastewater Evaluator (AOWE). The evaluation of soil conditions and site features is provided in accordance with G.S. 130A-335(e), the Rules for "Wastewater Treatment and Dispersal Systems", 15A NCAC 18E, and local septic regulations (if any). This report represents my professional opinion as a Licensed Soil Scientist and Authorized Onsite Wastewater Evaluator.









WASTEWATER SYSTEM DESIGN SPECIFICATIONS

Permit # HOA-AOWE-2509-7

Proposed Design Daily Flow	360	gpd	Drainfield Meeets Req	uirements:
Septic Tank Size (minimum)	1000	gallons	.0508 Available Space	Yes
Pump Tank Size (minimum)	1000	gallons, if required	d .0601 Setbacks	Yes

Initial System

System Type	IIb - Accepted	wastewate	er gravity system			
Pump Required	No			ft TDH at		GPM
Trenches:	Quick4 standa	rd chambe	r 25% reduction			
Design LTAR		0.30	gal/day/ft ²	Sapro	lite System	No
Total Trench/ Bed	d Length	300	feet		Fill System	No
Trench Spacing		9	ft on center			
Usable soil depth to LC		38	inches			
Maximum Trench	n Depth	19	inches, measured	on downhil	I side of tren	ıch
Minimum Soil Co	ver	6	inches			
Artificial Drainage	Required	No				

Repair System

System Type:	IIb – Accepted	wastewat	er gravity system		
Pump Required	No			_	
Trenches:	Quick4 standa	rd chambe	er 25% reduction		
Design LTAR		0.30	gal/day/ft ⁻	Saprolite System	No
Total Trench/ Bed Length		300	feet	Fill System	No
Trench Spacing		9	ft on center		
Usable soil depth to LC		38	inches		
Maximum Trench Depth of		19	inches, measured	on downhill side of trench	i
Minimum Soil Co	ver	6	inches		

Potential Drainlines flagged at site on 9-ft centers.

T Otorici	ar Brannini	oo naggoa at o	10 011 0 11 0	ontoro.	_
		Relative	Drainline	Field	
Line #	Color	Elevation (ft)	Length(ft)	Length(ft)	
1	R	106.64	100	115	<u>=</u>
2	Υ	104.89	100	104	Initia
3	В	103.38	100	84	
4	W	101.51	100	97	٦ -
5	R	99.53	100	89	a.
6	Υ	97.41	60	79	Repair
7	В	95.58	40	40] "
Septic 1	「ank:	109.56			-
Reference	e Elev:	100.00		Notes:	

Notes

^{*}No grading or removal of soil in initial or repair areas

^{*}Property lines per owner

^{*}Trench bottoms shall be level to +/- 1/4" in 10ft

^{*}All parts of septic system must meet minimum setbacks

HOA-AOWE-2509-7

PERMIT CONDITIONS

The requirements of 15A NCAC 18E are incorporated by reference into this permit and shall be met.

System shall be installed in accordance with the attached Wastewater System Design Specificaitons. See attached SYSTEM LAYOUT for wastewater system design and location.

Any changes to the site plan or intended use must be approved by Hal Owen & Associates. Permit modification and resubmittal to the LHD may be necessary to ensure regulatory compliance.

Conformance to ALL regulatory setbacks shall be maintained. Local regulations (such as County, well, or riparian ordinances) may require more stringent setbacks than specified in the State septic regulations.

Minimum soil cover of six inches shall be established over dispersal field. Soil cover above the original grade shall be placed at a uniform depth over the entire dispersal field and shall extend laterally five feet beyond the dispersal trench. Site shall be graded to shed water away from field and a vegetative cover established to prevent erosion.

The dispersal field and repair area shall not be subject to vehicular traffic. Vehicular traffic can damage soils, pipes, and valve boxes. Do not use septic areas for parking.

Do not allow underground utilities, water lines, or sprinkler systems to be installed in the septic areas. Damage to the septic areas could result in the septic permit being revoked.

The wastewater system shall not be covered until inspected by Hal Owen & Associates and shall not be placed into use until an Authorization to Operate is issued.

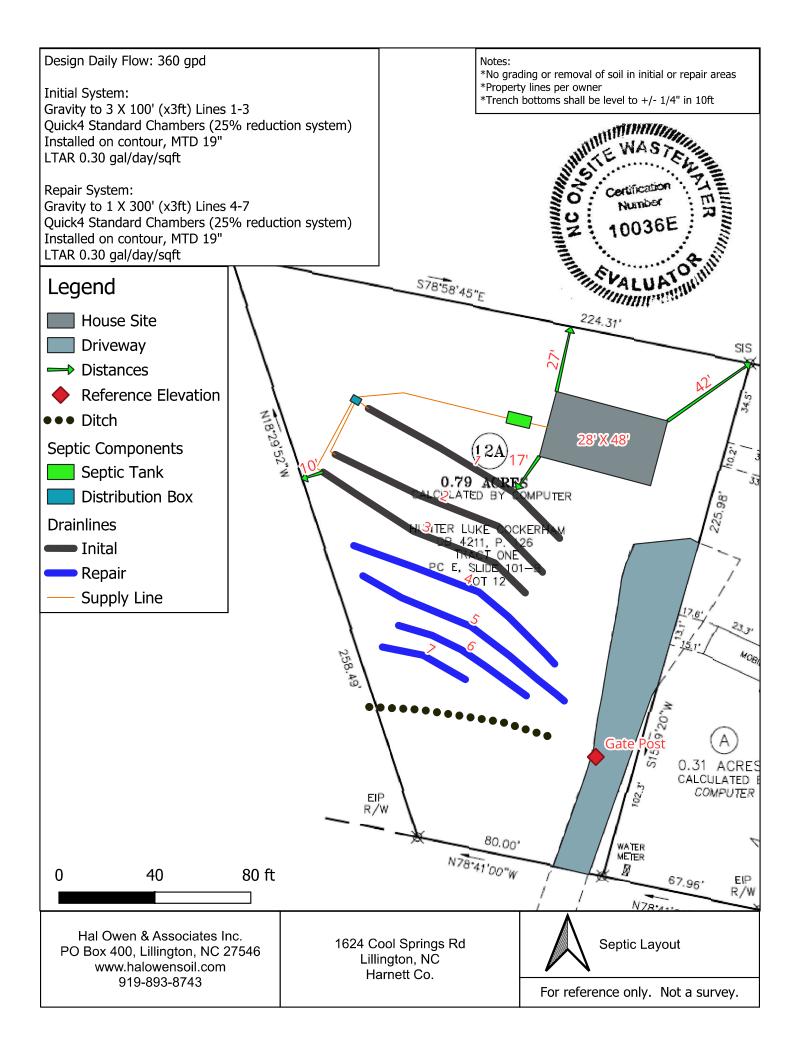
SPECIFIC REQUIREMENTS

A pre-construction conference with the septic contractor is required prior to installation. Call Hal Owen & Associates at least five days in advance to schedule 910-893-8743

The inlet and outlet of all tanks shall be equipped with an approved pipe penetration boot.

A pump tank should be added if gravity distribution cannot be demonstrated.

All gutter drains must be diverted away from the septic field.



INITIAL WASTEWATER SYSTEM

Permit # HOA-AOWE-2509-7

Gravity System Design Criteria

DESIGN DAILY FLOW 360 gallons **SOIL LTAR:** 0.30 gpd/ft²

TANK (minimum) Septic Tank: ___1000 __gallons

SUPPLY LINE Length (ft): 60 Diameter: 3 " sch 40 pvc slope = 3.17% *minimum slope of supply line is 1/8" per foot (%1.04)

TRENCHES Drainline Type: Quick4 standard chamber 25% reduction

Maximum Trench Depth of 19 inches, measured on downhill side Trench height: 12 inches Trench width: 3 Trench Length Factor: ____75 % Effective Trench Width: 4 900 ft² Absorption Area: Minimum Linear Length: 300 ft Actual Trench Length: 3 Χ 100 ft 300

Gravity Distri	bution Schematic			
Septic Tank Ground	Tank Outlet*	D-Box	<i>Trench</i> Ground	
Elev (ft)= 109.56 ft	Depth (in) = 18 Elev (ft)= 108.06	Elev (ft)= 106.16	Elev (ft)= 106.64	: _
BROWNERS STATE OF THE STATE OF	# # # # #	D-box oly Line 60	Trench Drainline	Trench Bottom Elev (ft)= 105.06
			drawing N	I.T.S.

^{*}Outlet depth of septic tank is dependant upon the depth of the plumbing stub out from the home. A pump tank should be added if gravity distribution cannot be demonstrated.

REPAIR WASTEWATER SYSTEM

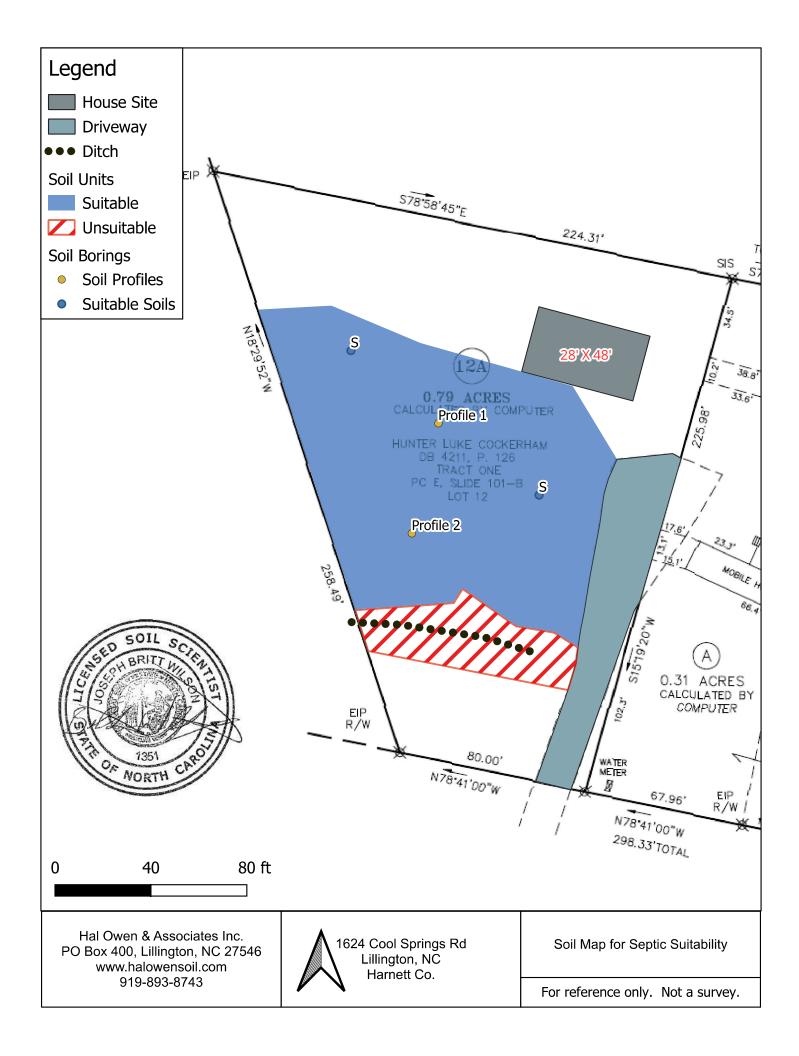
Permit # HOA-AOWE-2509-7

Gravity System Design Criteria

DESIGN DAILY FLOW 360 gallons **SOIL LTAR:** 0.30 gpd/ft² TANK (minimum) Septic Tank: 1000 gallons **SUPPLY LINE** Length (ft): 135 Diameter: 3 "sch 40 pvc slope = 5.28% *minimum slope of supply line is 1/8" per foot (%1.04) **TRENCHES** Drainline Type: Quick4 standard chamber 25% reduction Maximum Trench Depth of 19 inches, measured on downhill side Trench height: 12 inches Trench width: 3 Effective Trench Width: 4 Trench Length Factor: ____75 % 900 ft² Absorption Area: Minimum Linear Length: 300 ft Actual Trench Length: 1 Χ 300 ft 300 ft

Gravity Distrib	oution Schematic		
Septic Tank	Tank Outlet*	Trench	
Ground	Donth (in) - 19	Ground	
Elev (ft)= 109.56 ft	Depth (in) =18 Elev (ft)=108.06	Elev (ft)= 101.51	-
OMSHI RIMR	IRA MINISTRA CATES COVER	Trench	Trench Bottom
	Supply Line = 135	Drainline	Elev (ft)= 99.93
PRECAST CONCRE OWITSHAL STRIN		drawing N.	.T.S.

^{*}Outlet depth of septic tank is dependant upon the depth of the plumbing stub out from the home. A pump tank should be added if gravity distribution cannot be demonstrated.



AOWE EVALUATION

Permit # HOA-AOWE-2509-7

SOIL/SITE EVALUATION FORM FOR ON-SITE WASTEWATER SYSTEM

OWNER NAME: Luke Cockerham PROPOSED FACILITY: Residential DESIGN DAILY FLOW: 360 WATER SUPPLY Public Water 1624 Cool Springs Rd, Lillington, NC 27546 LOCATION OF SITE: PIN: 0611-65-7331.000 COUNTY: Harnett WASTEWATER TYPE: Domestic **EVALUATION METHOD:** AUGER BORING PIT CUT L **EVALUATED BY:** Britt Wilson, LSS#1351 DATE EVALUATED: 8/27/25 **INITIAL SYSTEM** REPAIR SYSTEM AVAILABLE SPACE 900 ft² trench bottom 900 ft² trench bottom Quick4 standard chamber 25% reduction SYSTEM TYPE Quick4 standard chamber 25% reduction SITE LTAR 0.30 gpd/ft² 0.30 gpd/ft² MAX TRENCH DEPTH 19 inches (measured on downhill side) 19 inches (measured on downhill side)

OTHER FACTORS

COMMENTS:

SITE CLASSIFICATION Suitable

PROFILE 1

HORIZON	COLOR	CONSIS	TEXTURE	STRUCTURE	MINERA	OTHER PROFILE FACTORS	
DEPTH		TENCE			LOGY		
0-3	10YR 4/3	FR	SL	GR	SEXP	LANDSCAPE POSITION	L
3-7	5YR 4/6	FI	С	SBK	SEXP	SOIL WETNESS DEPTH	>49"
7-17	2.5YR 11/8	FI	С	SBK	SEXP	SOIL WETNESS COLOR	
17-32	2.5YR 4/8	FR	SCL	SBK	SEXP	SOIL DEPTH	38"
32-38	2.5YR 4/6	FR	SCL	SBK	SEXP	SAPROLITE CLASS	S
38-49+	5YR 5/4	VFR	SL	SBK	SEXP	RESTRICTIVE HORIZON	NA
						SLOPE %	19
PROFILE CLASSIFICATION			Suitable	LTAR gpd/ft ²	0.3	SLOPE CORRECTION (IN)	6.8
COMMENT							

PROFILE 2

HORIZON	COLOR	CONSIS	TEXTURE	STRUCTURE	MINERA	OTHER PROF	ILE FACTORS
DEPTH		TENCE			LOGY		
0-7	10YR 4/2	VFR	LS	GR	SEXP	LANDSCAPE POSITION	ON CC
7-18	5YR 4/6	FI	С	SBK	SEXP	SOIL WETNESS DEP	'TH >48"
18-37	5YR 4/6	FI	SC	SBK	SEXP	SOIL WETNESS COL	.OR
37-43	5YR 4/6	FI	SC	SBK	SEXP	SOIL DEPTH	43"
43-48+	5YR 4/4	VFR	SL	SBK	SEXP	SAPROLITE CLASS	s
						RESTRICTIVE HORIZ	ON NA
						SLOPE %	22
PROFILE CLASSIFICATION			Suitable	LTAR gpd/ft ²	0.3	SLOPE CORRECTION	N (IN) 7.9
COMMENT				-			

SOIL/SITE EVALUATION FORM FOR ON-SITE WASTEWATER SYSTEM

LEGEND OF ABBREVIATIONS

LANDSCAPE	TEXTURE	TEXTURE			<u>LTAR</u>	
<u>POSITION</u>	GROUP		<u>CLASS</u>		(gal/day/sqft)	
CC - Concave Slope	1		S - Sand		1.2-0.8	
CV - Convex Slope			LS - Loamy	Sand		
DS - Debris Slump						
D - Depression	Ш	II SL - Sand		_oam	0.8 – 0.6	
DW - Drainage Way			L - Loam			
FP - Flood Plain						
FS - Foot Slope	III		SCL - Sandy Clay Loam		0.6 – 0.3	
H - Head Slope			CL - Clay Loam			
L - Linear Slope			SiL - Silt Loam			
N - Nose Slope			Si - Silt			
R - Ridge			SiCL - Silt Clay Loam			
S - Shoulder Slope						
T - Terrace	IV		SC - Sandy Clay		0.4 – 0.1	
TS - Toe Slope			C - Clay			
			SiC - Silty C	lay		
			O - Organic		none	
STRUCTURE		MOIST CONSISTENCE		WET CONSISTENCE		
G - Single Grain		VFR - Very Friable		NS - Non Stick		
M - Massive		FR - Friable		SS - Slightly Sticky		
CR - Crumb		FI - Firm		MS - Moderately Stick		
GR - Granular	•	VFI - Very Firm		VS - Very Sticky		
SBK - Subangular Block	y EFI - Extrem	EFI - Extremely Firm				
ABK - Angular Blocky				NP - Non Plastic		
PL - Platy		MINERALOGY		SP - Slightly Plastic		
PR - Prismatic		SEXP - Slightly Expansive		MP - Moderately Plastic		
	EXP - Expar	isive		VP - Very Plastic		
MOTTLES	f – few	1 - fine		F - Faint		
	c – common	_		D - Distinct P - Prominent		
	m – many					

Give Horizon Depth in inches below natural soil surface and Fill Depth in inches above land surface.

Depth to Soil Wetness: inches below land surface to free water or to soil colors with chroma 2 or less.

Classification: S – Suitable U – Unsuitable

All soil characteristics were described in accordance with the USDA Field Book for Describing and Sampling Soils. The soils were evaluated under moist soil conditions. This evaluation included observations of topography and landscape position, soil morphology (texture, structure, clay mineralogy, organics), soil wetness, soil depth, and restrictive horizons.

AOWE EVALUATION

TERMS AND CONDITIONS

This AOWE Evaluation is intended to file a Notice of Intent to construct a wastewater system with the Local Health Department and shall expire in five years. This evaluation is not a permit to develop. The owner and subcontractors will need to abide by all state and local rules and regulations pertaining to planning, zoning, and land use development.

<u>Notice of Intent to Construct</u> – Prior to commencing or assisting in the construction, siting, relocation, or repair of a wastewater system, a complete Notice of Intent (NOI) to Construct a wastewater system using an AOWE must be submitted to the Local Health Department (LHD). The owner may apply for a building permit for the project upon submitting a complete NOI and the required fee.

<u>Plan Alterations</u> – If there are any changes in the site plan that can impact the wastewater system, such as moving the house or driveway, site alterations, or if the applicant chooses to change the design daily flow prior to wastewater system construction, a new NOI shall be submitted to the LHD. The applicant shall request in writing that the PE or AOWE invalidate the prior NOI with a signed and sealed letter sent to the applicant and LHD.

<u>Site Alterations</u> – The applicant shall be responsible for preventing modifications or alterations of the site for the wastewater system and the system repair area before, during, and after any construction activities for the facility, unless approved by the AOWE.

<u>On-Site Wastewater System Contractor</u> – The AOWE shall assist the owner in the selection of a certified on-site wastewater system contractor who shall be under contractual obligation to the owner and have sufficient errors and omissions, liability, or other insurance for the system constructed.

<u>Inspections, Construction Observations, and Reports</u> – The AOWE shall make periodic visits to the site to observe the progress and quality of the construction of the wastewater system.

<u>Authorization to Operate (ATO)</u> – Upon determining that the wastewater system has been properly installed and is capable of being operated in accordance with the conditions of the permit, the AOWE shall provide the owner with a report that includes inspection reports, a written operation and management program, any special reports, and an Authorization to Operate. The owner shall sign confirming acceptance and receipt of the report, and then provide a copy to the LHD who will issue the certificate of occupancy for the facility.

<u>Operation and Management</u> – The owner shall be responsible for continued adherence to the operations and management program established by the AOWE. This permit shall in no way be taken as a guarantee or implied warranty that the septic system will function satisfactorily for any given period of time.

<u>Change in System Ownership</u> – An authorized wastewater system shall be transferrable to a new owner with the consent of the AOWE. The new owner and the AOWE shall enter a contract for the wastewater system.

<u>Revocation</u> – The AOWE permit is subject to revocation if the site plan, plat, or the intended use changes. This permit is subject to compliance with the provisions of the laws and Rules for Wastewater Treatment and Dispersal Systems and to the conditions of this permit.

Repair of Malfunctioning Systems – The owner may apply for an Improvement Permit and a Construction Authorization from the LHD or obtain a NOI from an AOWE to repair a malfunctioning wastewater system.