

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

Expa	RelocationRepair Relocation	Relocation of Repair Area
Owner or Legal Representative Information Name: Justin Zimmerle and Bruce Stee		
		NO
Mailing address: 92 Dove Trail Phone: 480-341-5296	Email: JustinZimmerle32@vaho	State: NC Zip: 27332
Authorized Onsite Wastewater Evaluator I	nformation:	
Name: Hal Owen	Certif	ication #: 10036E
Mailing address: PO Box 400	City: Lillington	State: NC Zin: 27546
Phone: 910-893-8743	Email: hal@halowensoil.com	
Site Location Information:		
Site address: 524 Longleaf Dr, Lillington	, NC	
Tax parcel identification number or subdiv	ision lot, block number of property County: Ha	
System Information: Wastewater System Type: IIIbg (Pump to Daily Design Flow: 480 gpd Saprolite System: Yes × No Water Supply Type: Private Well ×	Subsurface Operator Required:	Vec X No
Facility Type:		
X Residential 4 # Bedrooms 8	Maximum # of Occupants	
	Basis for Flow:	
Public Assembly Type of Public Asse	embly and Basis for Flow:	
Required Attachments: V Plat or Site Plan V Evaluation of Soil and Site Features	by Licensed Soil Scientist	
Attest: On this the 28 day of May 2 included with this NOI to Construct is accur have adhered to the laws and rules governing. This NOI shall expire on 28 day of May	are and complete to the best of my	reby attest that the information required to be knowledge. Furthermore, I hereby attest that I state of North Carolina.
Signature of Authorized Onsite Wastewater	Evaluator: Hal O	wa
Signature of Owner or Legal Representative	Brue Step	V1 ->
evaluator shall be transferable to a new own	er with the consent of the authorize	abmitting a complete NOI to Construct and the fee authorized by an authorized onsite wastewater and onsite wastewater evaluator.
Local Health Department Receipt Acknowle Signature of Local Health Department Repre	dgement:	P .

HALOWE1

OP ID: TOW

CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY) 05/28/2024

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. 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 INSURANCE SERVICE CTR -LILLING LILLINGTON BRANCH OFFICE 910-893-5707 CONTACT SHARON WOODY PHONE (A/C, No, Ext): 910-893-5707 FAX (A/C, No): 910-893-2077 PO Box 1565 E-MAIL ADDRESS: SWOODY@ISCFAY.COM LILLINGTON, NC 27546 DANIEL L. BABB INSURER(S) AFFORDING COVERAGE NAIC # INSURER A: STARSTONE NATIONAL INSURED HAL OWEN & ASSOCIATES, INC. INSURER B: PO BOX 400 LILLINGTON, NC 27546 INSURER C: INSURER D : INSURER E INSURER F : COVERAGES CERTIFICATE NUMBER: REVISION NUMBER: THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS. LTR TYPE OF INSURANCE POLICY EFF POLICY EXP **POLICY NUMBER** LIMITS COMMERCIAL GENERAL LIABILITY EACH OCCURRENCE CLAIMS-MADE \$ OCCUR DAMAGE TO RENTED PREMISES (Ea occurrence) \$ MED EXP (Any one person) PERSONAL & ADV INJURY GEN'L AGGREGATE LIMIT APPLIES PER: GENERAL AGGREGATE PRO-JECT POLICY PRODUCTS - COMP/OP AGG \$ OTHER: AUTOMOBILE LIABILITY COMBINED SINGLE LIMIT ANY AUTO OWNED AUTOS ONLY BODILY INJURY (Per person) SCHEDULED AUTOS BODILY INJURY (Per accident) HIRED AUTOS ONLY NON-OWNED PROPERTY DAMAGE (Per accident) UMBRELLA LIAB OCCUR EACH OCCURRENCE S EXCESS LIAB CLAIMS-MADE AGGREGATE \$ DED RETENTION \$ WORKERS COMPENSATION AND EMPLOYERS' LIABILITY STATUTE ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) E.L. EACH ACCIDENT \$ If yes, describe under DESCRIPTION OF OPERATIONS below E.L. DISEASE - EA EMPLOYEE \$ PROFESSIONAL LIAB. DISEASE - POLICY LIMIT 42ESP00143901 01/27/2024 01/27/2025 PER OCC. 1,000,000 **AGGREGATE** 2,000,000 DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required) CERTIFICATE HOLDER CANCELLATION SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS. **JUSTIN ZIMMERLE** 92 DOVE TRL SANFORD, NC 27332 AUTHORIZED REPRESENTATIVE

ACORD 25 (2016/03)

© 1988-2015 ACORD CORPORATION. All rights reserved.

WASTEWATER SYSTEM DESIGN SPECIFICATIONS

Proposed Design Daily Flow	480	gpd	Drainfield Meeets Requ	irements:
Septic Tank Size (minimum)			.0508 Available Space	Yes
Pump Tank Size (minimum)	1000	gallons, if required		Yes

Initial System

IIIbg –Pump to Other non-conventional systems						
Yes			21		25	GPM
ccepted (25%	reduction	n) System				OI W
	0.70	gal/day/ft ²		Sapro	olite System	No
Length	171	feet		oup.		No
	9	ft on center			· iii Oystom	INO
LC	34	inches				
	19	inches, mea	sured	on downhil	I side of tren	ch
	6	inches		on downin	roide of them	
Required	No					
	Yes	Yes accepted (25% reduction 0.70 Length 171 9 0 LC 34 Depth 19 or 6	Yes accepted (25% reduction) System 0.70 gal/day/ft² Length 171 feet 9 ft on center 0 LC 34 inches 0 epth 19 inches, mea er 6 inches	Yes 21 accepted (25% reduction) System 0.70 Length 171 9 ft on center 0 LC 34 Depth 19 inches inches	Length 0.70 gal/day/ft² Sapro Length 171 feet 9 ft on center Depth 19 inches, measured on downhile or 6 inches	Yes 21 ft TDH at 25 Accepted (25% reduction) System 0.70 gal/day/ft² Saprolite System Length 171 feet Fill System 9 ft on center 0 LC 34 inches 0 epth 19 inches, measured on downhill side of trend or 6 inches

Repair System

System Type:	IIIbg -Pump to	Other no	on-conventional system	ms			
Pump Required Trenches:	Yes						
	Accepted (25%	e reduction	on) System				
Design LTAR		0.70	gal/day/ft²	Saprolite System	No		
Total Trench/ Bed Length		171	feet	Fill System			
Trench Spacing			ft on center	i iii Systein	No		
Usable soil depth	to LC	34	inches				
Maximum Trench Depth of		19	inches, measured on downhill side of trench				
Minimum Soil Co	ver	6	inches				

Potential Drainlines flagged at site on 9-ft centers

			Relative	Drainline	Field
÷	Line #	Color	Elevation (ft)	Length(ft)	Length(ft)
Repair	1	R	99.14	90	90
ž	2	В	98.34	90	97
a	3	W	97.74	90	102
Initia	4	Υ	97.09	90	101
	Septic T	ank:	88.00		701
	Pump Ta	nk:	88.00	1	
	Reference	Elev:	100.00	1	

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 Specifications. 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 well or riparian buffer ordinances) may require more stringent setbacks than specified in the 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.

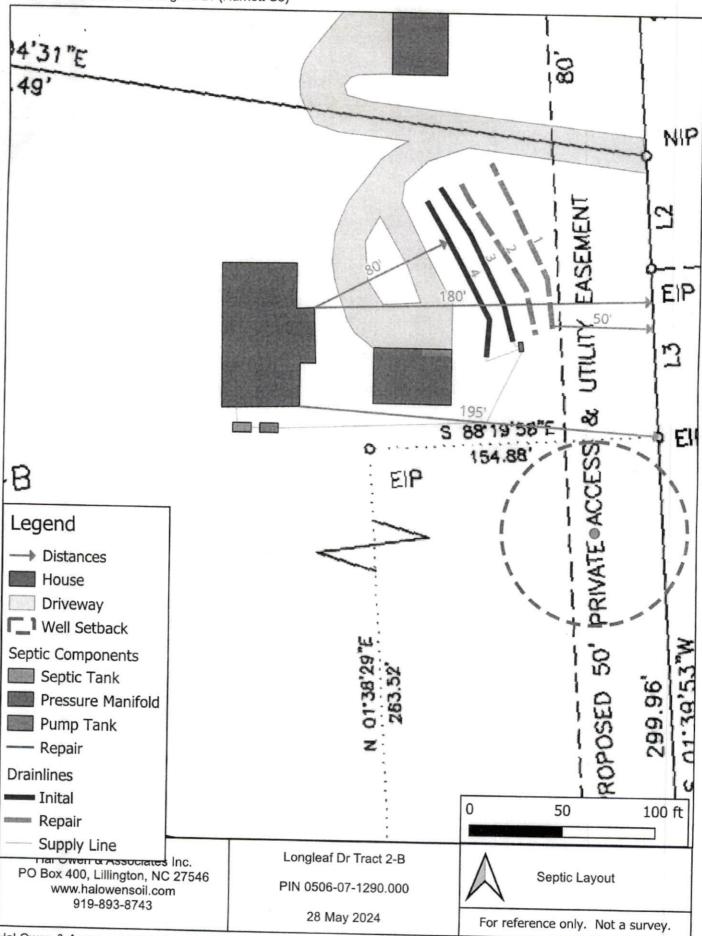
The wastewater system shall not be covered until inspected by Hal Owen & Associates and shall not be placed into use until an Authorization to Operate is issued.

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.

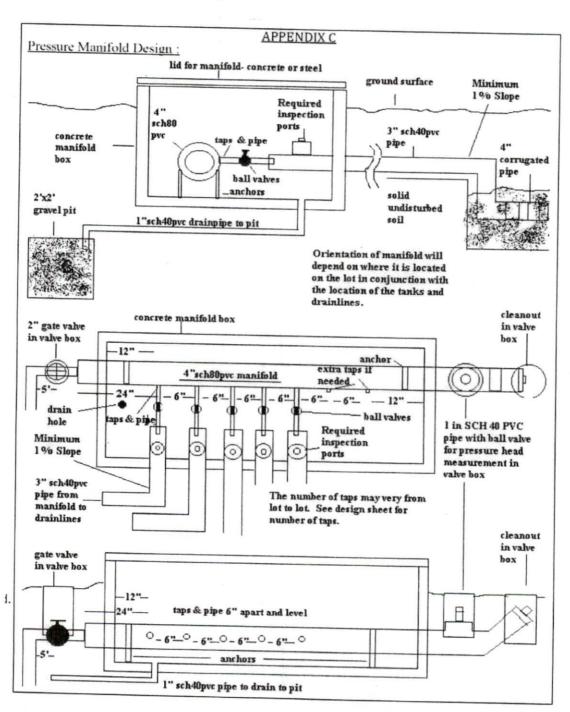
The pump tank may be eliminated if gravity distribution can be demonstrated.



Pre	ssure Mai	nifold Desi	ign Criteria					
	IGN DAILY		480	_gallons/day	SOIL LTAP	. 0.70	and/ft ²	
	KS (min)		1000	_gallons				
SUP	PLY LINE		: 155	_ guilons ft	Diameter			DV C
		Minimu	um flow (gpm) to		scour velocity	20.0	_ SCH 401	PVC
		Sup	oply Pipe Volume	e 27	gallons	20.9	_gpm	
					_ gallons			
TRE	NCHES	Drainline Type	Accepted (25%	reduction) Sys	tem			
		Maximum	Trench Depth o	f 19	inches, mea	sured on I	- ow side of t	ronch
		Trench width:	3	feet	Effective Tren	ch Width	4	ft
	Abs	sorption Area:	514	ft ²	Minimum Line			- ft
				_		zar Longui.		-11
MAN	IFOLD	Length (ft):	2.5	Diameter:	4" sch 80 pv		Elevation:	98 74
		# Taps	2	Tap Configura	tion: 6in. space	cing, 1 sid	e of manifol	d
TAP	CHART							_
Line	Color	Relative		Tap Size/	flow/tap		LTAR	1
		Elevation	Length(ft)	Schedule	gpm	gpd/ft	(gpd/ft ²)	
3	W	97.74	90	3/4"sch 40	12.50	2.667	0.889	1
4	Y	97.09	90	3/4"sch 40	12.50	2.667	0.889	1
		-						
	То	tal Drainline:	180	Total Flow:	25.00			
DUINA					Tar	get LTAR*:	0.93	
	CALCULA				L	TAR + 5%:	0.980	
		88.16	gallons, with Pip	e Volume at	75	%	*65.3gal/100ft	pipe
	Pump Run T	ime (min):	3.53	Daily I	Pump Run Tin	ne (min):	19.20	
		88	gallons +	20.25	gal/inch =	4.35	inches	
	Tank Elevat		88		Elevation (ft):			
	n Head:	2.86	*Hazen Williams Fo	rmula (use supply l	ine length+70' for	fittings in p	ump tank)	
	ion Head:	15.7						
Desigi	n Head:	2.0		Total	Dynamic Hea	d (TDH): _	20.60	ft
Pump	to Deliver:	25.0	gpm @	20.6	ft TDH			
NEMA	4X Simplex	Control Pane	el with elapsed ti	me meter, even	t counter, aud	lible and v	isible alarm	(w/
31101100	button), nar	nu-on-automa	atic (HOA) switch	n, pump run ligh	t, and pump of	n senarat	e circuite in	roquiros
Jona	parier bullo	m shall be m	ounted a minimu	um of 24 in, abo	ve finished ar	ade within	50 ft of nur	mn tank
A sept	ic talk litter i	s required. Fi	oats to be deter	mined by type o	f pump tank u	sed.	. so it or pur	inp territ.
	Possible S	Septic Tank: [Brantley 1000 ST	TB-499	Possible Sep			
	Possible P	Pump Tank: _E	Brantley 1000_P	T-237	Vol(gal):		GPI:	20.25
	Poss	sible Pump: _			pump heig		14	

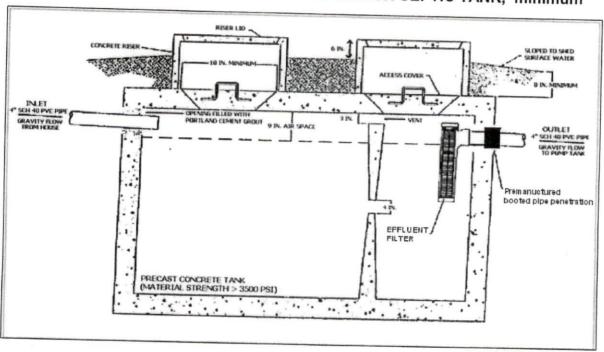
Pressure Manifold Diagram

Tap#	1	2	
tap size	Manifold 3/4"sch 40	4"SCH 80 PVC 3/4"sch 40	
flow (gpm) length (ft)	12.50 90	12.50 90	



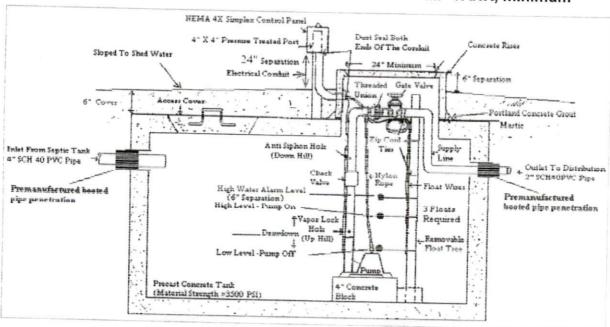
Typical Septic Tank

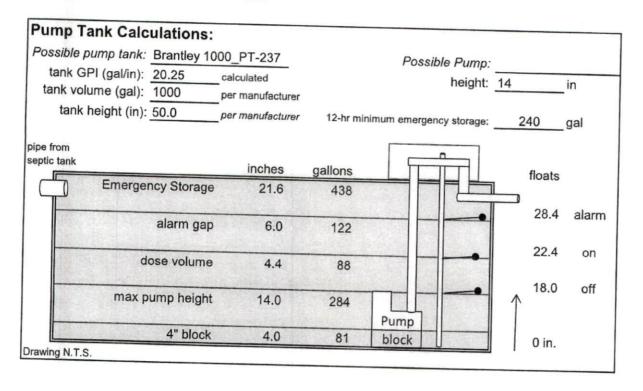
1000 GALLON SEPTIC TANK, minimum

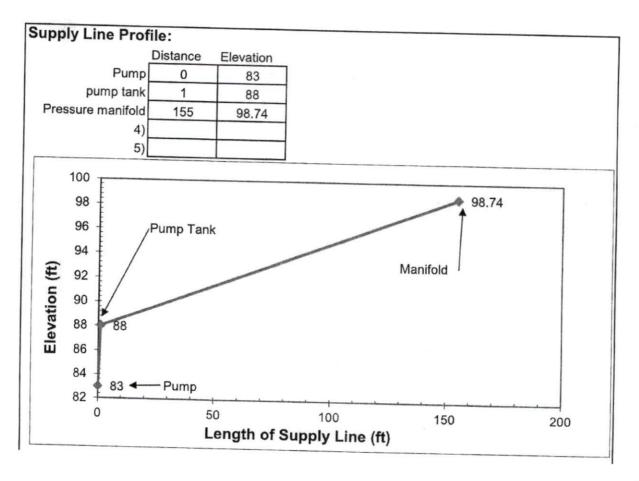


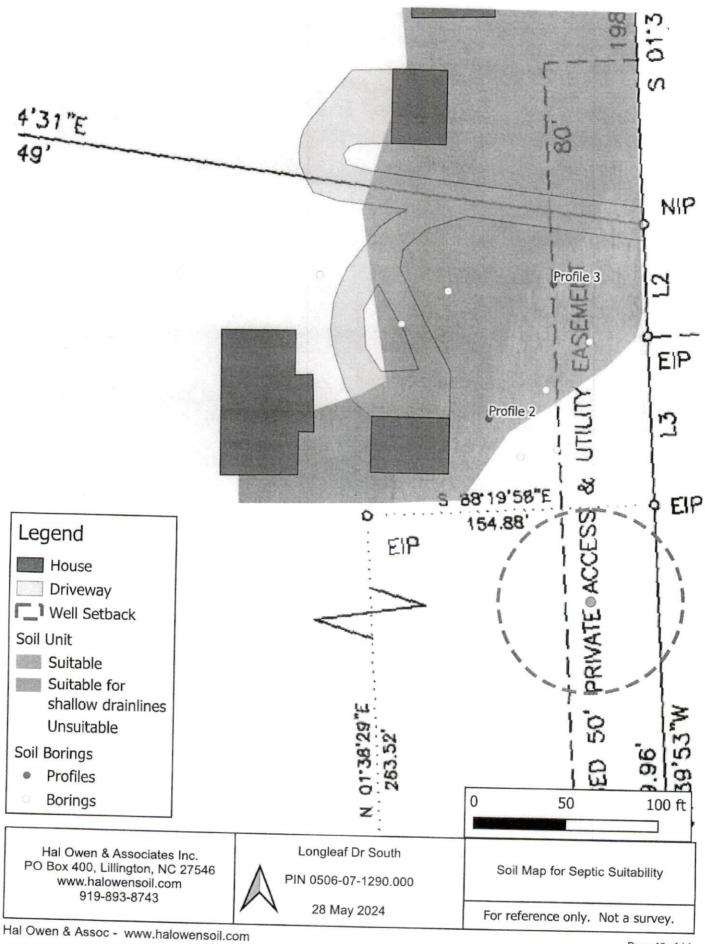
Typical Pump Tank

1000 GALLON PUMP TANK, minimum









AOWE Evaluation - 524 Longleaf Silv Harnett Garon Form for On-Site Wastewater System

OWNER'	NAME:	Justin Zir	mmerle and I	Bruce Steger	OWNE	R ADDRESS: 92 Dove Trail	
PROPOSI	ED FACILITY	Residenti	ial	PROPOSED DE	SIGN ELON		
	ON OF SITE:				SIGN FLOW		
WASTEW	ATER TYPE	: Domestic			_	PIN: 0506-07-1290.	000
WATER S	SUPPLY:	Public W		WAT	ED CLIDDL	COUNTY: Harnett	
	TION METH			OV WALL	EK SUPPL	Y SETBACK: 10	
EVALUA	TED BY:			and Steven Boo	PI		JT
	/E 6/8	That Office	1, 1.00 1102	and Steven Boo	r	DATE EVALUATE	D: 3/25/24
			INITIAL S	VOTEM			
AVAILA	ABLE SPACE	51				REPAIR SYST	
AVAILABLE SPACE 514 ft² trench bottom SYSTEM TYPE Accepted (25% reduction) System						514 ft ² trench botto	
T (20.00)	SITE LTAR	0.7	0 gpd/ft ²	non) System		Accepted (25% reduction	on) System
MAX TRE	NCH DEPTH				. 1.1	0.70 gpd/ft ²	
	SSIFICATION		inches (mea	asured on down		19 inches (measure	ed on downhill side)
	COMMENTS				_ OTHE	R FACTORS	
PROFILE							
HORIZON		CONSIS	TEVTUDE	CEDITORIUS	J		
DEPTH	COLOR	TENCE	TEXTURE	STRUCTURE	1	OTHER PROFILE FA	CTORS
0-3	2.5Y 2.5/1	VFR	TC	200	LOGY		
3-10	2.5Y 4/3		LS	GR	SEXP	LANDSCAPE POSITION	L
10-30	10YR 6/6	VFR	SL	GR	SEXP	SOIL WETNESS DEPTH	34"
30-34	10 YR 6/6	VFR	LS	GR	SEXP	SOIL WETNESS COLOR	
34-44		FR	SL	GR	SEXP	SOIL DEPTH	48"
44-48	10YR 6/6	FR	SCL	GR	SEXP	SAPROLITE CLASS	NA
44-40	5Y 7/1	FR	SCL	GR	SEXP	RESTRICTIVE HORIZON	NA
DDOEH E	T A COURTON			30 00		SLOPE %	7
COMMEN	CLASSIFICA	FION	Suitable	LTAR gpd/ft ²	0.7	SLOPE CORRECTION (IN)	2.5
COMMEN							
BDOUIL F	•						
PROFILE		-27					
HORIZON	COLOR		TEXTURE	STRUCTURE	MINERA	OTHER PROFILE FA	CTORS
DEPTH		TENCE			LOGY		01010
0-2	2.5Y 2.5/1	VFR	LS	GR	SEXP	LANDSCAPE POSITION	L
2-15	10YR 5/4	VFR	LS	GR		SOIL WETNESS DEPTH	>48"
15-41	10YR 6/8	VFR	LS	GR		SOIL WETNESS COLOR	1 10
41-48	7.5YR 4/6	FR	SL	GR		SOIL DEPTH	1011

PROFILE CLASSIFICATION

COMMENT

SL

Suitable

GR

LTAR gpd/ft² 0.8

SEXP

SOIL DEPTH

SLOPE %

SAPROLITE CLASS

RESTRICTIVE HORIZON

SLOPE CORRECTION (IN)

48"

NA

NA

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.

Notice of Intent to Construct — 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.

On-Site Wastewater System Contractor – 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.

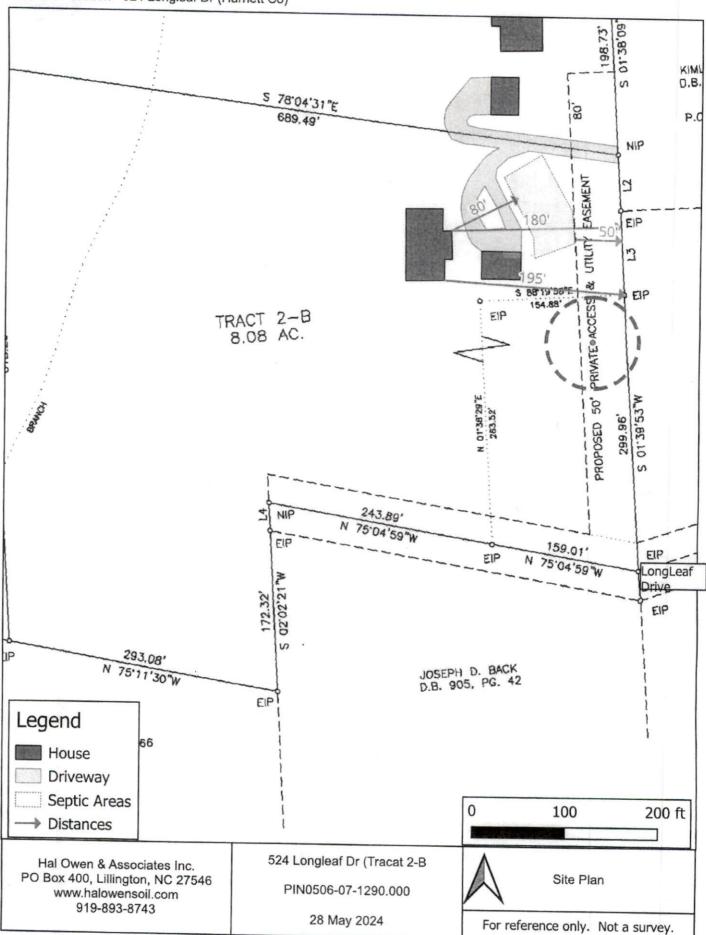
<u>Authorization to Operate (ATO)</u> – Upon determining that the wastewater system has been properly installed and is capable of being operated in accordance with the conditions of the permit, the AOWE shall provide the owner with a report that includes inspection reports, a written operation and management 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.

Operation and Management – 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.

Revocation – 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.



AOWE EVALUATION

for 524 Longleaf Dr

Issue date 5/31/2024

Expiration 5/31/2029

APPLICANT INFORMATION

Name	Justin Zimmerle and Bruce Steger	
Mailing Address	92 Dove Trail, Sanford NC 27332	
E-mail Address	JustinZimmerle32@yahoo.com	Telephone Number 480-341-5296

PROPERTY IDENTIFIERS

County	Harnett	PIN	
Size (Acre)		PIN	0506-07-1290.000
	8.08	County PID	
Site Address	524 Longleaf Dr		
S/D Name and Lot#	Tract 2-B		

PROJECT INFORMATION

Wastewater System	New	And less than the	.0403 Eng Low Flow	No
Wastewater Strength	Domestic			No
Facility Type	Residential	To by a low than	Effluent Standard	DSE
Design Wastewater Flo			Water Supply	Public Water
		gpd	gal/unit	120
Basis for Flow	4	seats	max occupancy	8
Basement	No		Fixtures in basement?	No
Crawl Space	Yes		Slab Foundation	No

CONSULTANT INFORMATION

Company Name	Hal Owen & Associates, Inc.		A CONTRACTOR OF THE PARTY OF TH
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		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.





