

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 Expansion Repair Relocation Relocation of Repair Area	
Owner or Legal Representative Information:	
Name: Justin Zimmerle and Bruce Steger	
Mailing address: 92 Dove Trail City: Sanford State: NC Zip: 27332	
Phone: 480-341-5296 Email: JustinZimmerle32@yahoo.com	
Authorized Onsite Wastewater Evaluator Information:	
Name: Hal Owen Certification #: 10036E	
Mailing address: PO Box 400 City: Lillington State: NC Zip: 27546	
Phone: 910-893-8743 Email: hal@halowensoil.com	
Site Location Information:	_
Site address: Longleaf Dr, Lillington, NC 27546	
Tax parcel identification number or subdivision lot, block number of property:	
Tract 2-A, PIN 9596-97-9526.000 County: Harnett	
System Information: Wastewater System Town IIIba / Pump to Accepted Status 250/ pub. 11	
Wastewater System Type: IIIbg (Pump to Accepted Status 25% reduction) Daily Design Flow: 600 gpd	
Saprolite System: Yes X No Subsurface Operator Required: Yes X No	
Water Supply Type:Private Well ×Public Water SupplySpringOther:	
Facility Type:	_
x Residential 5 # Bedrooms 10 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	
Attest: On this the 28 day of May , 2024 by signature below I hereby attest that the information required to be	_
The first the College and Complete to the best of the	
have adhered to the laws and rules governing onsite wastewater systems in the state of North Carolina. This NOI shall expire on 28 day of May , 2029	
Signature of Authorized Onsite Wastewater Evaluator:	
Signature of Owner or Legal Representative: Down Start	
Disclosure: The owner may apply for a building permit for the project upon submitting a complete NOI to Construct and the fee	\dashv
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	\dashv
Signature of Local Health Department Representative:	

HALOWE1

OP ID: TOW

CERTIFICATE OF LIABILITY INSURANCE

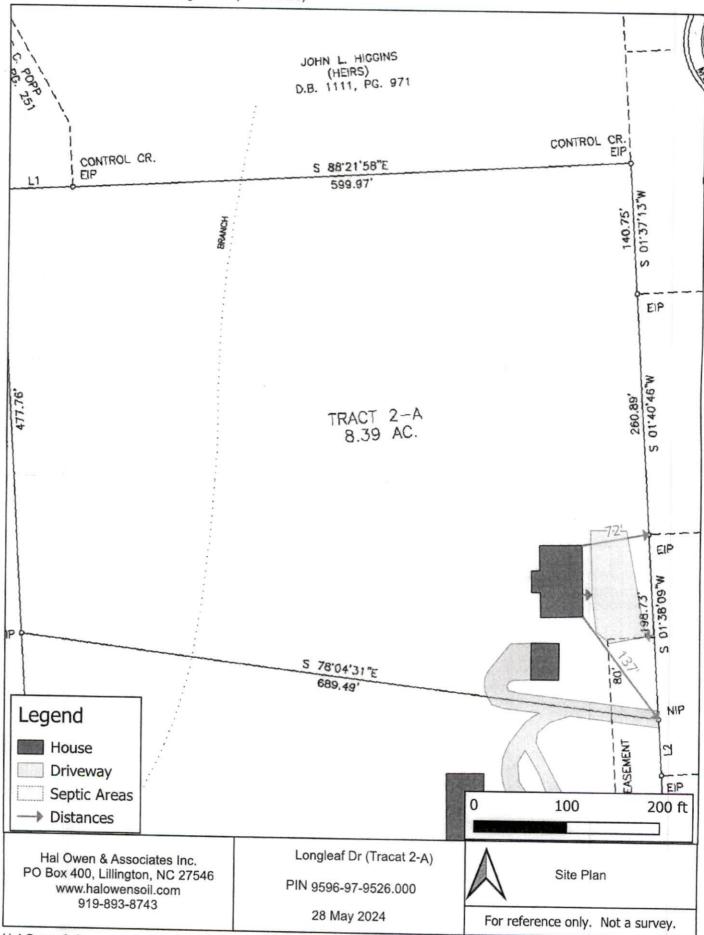
DATE (MM/DD/YYYY)

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
PO Box 1565
LILLINGTON, NC 27546 CONTACT SHARON WOODY PHONE (A/C, No, Ext): 910-893-5707 E-MAIDRESS: SWOODY@ISCFAY.COM FAX (A/C, No): 910-893-2077 INSURER(S) AFFORDING COVERAGE NAIC # INSURER A: STARSTONE NATIONAL INSURED HAL OWEN & ASSOCIATES, INC. PO BOX 400 LILLINGTON, NC 27546 INSURER B: INSURER C: INSURER D: INSURER E INSURER F COVERAGES CERTIFICATE NUMBER: THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD REVISION NUMBER: 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. ADDL SUBR INSD WVD POLICY NUMBER LIMITS COMMERCIAL GENERAL LIABILITY EACH OCCURRENCE DAMAGE TO RENTED PREMISES (Ea occurrence) CLAIMS-MADE OCCUR MED EXP (Any one person) PERSONAL & ADV INJURY GEN'L AGGREGATE LIMIT APPLIES PER GENERAL AGGREGATE POLICY PRO-JECT PRODUCTS - COMP/OP AGG OTHER AUTOMOBILE LIABILITY COMBINED SINGLE LIMIT (Ea accident) ANY AUTO OWNED AUTOS ONLY BODILY INJURY (Per person) SCHEDULED AUTOS BODILY INJURY (Per accident) \$
PROPERTY DAMAGE
(Per accident) \$ HIRED AUTOS ONLY NON-OWNED AUTOS ONLY **UMBRELLA LIAB** OCCUR **EACH OCCURRENCE EXCESS LIAB** S 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 S res, describe under SCRIPTION 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 Taylor Wallace

ACORD 25 (2016/03)

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AOWE EVALUATION

for 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

Harnett	DIN	
Harnott	PIN	0506-07-1290.000
8.39		
Longleaf Dr		
	The state of the s	
	Longleaf Dr	8.39 County PID Longleaf Dr

PROJECT INFORMATION

Wastewater System	New	.0403 Eng Low Flow	Ne
Wastewater Strength	Domestic	Effluent Standard	No Dec
Facility Type	Residential	Water Supply	DSE Public Water
Design Wastewater Flor	600 gpd	gal/unit	120
Basis for Flow		max occupancy	10
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

Proposed Design Daily Flow	600	gpd	Drainfield Meeets Requ	irements:
Septic Tank Size (minimum)	1250		.0508 Available Space	Yes
Pump Tank Size (minimum)	1250	gallons, if required		Yes

Initial System

System Type	IIIbg -Pump to	Other no	n-convention	al svs	tems		
Pump Required	Yes			9	ft TDH at	- 25	GPM
Trenches:	Accepted (25%	reductio	n) System	1200	Dirac		GFW
Design LTAR	The second has been dear to be a second and the sec	0.70	gal/day/ft ²		Sapro	olite System	No
Total Trench/ Be	d Length	214	feet		Capit	Fill System	
Trench Spacing		9	ft on center			i iii Oyotoiii	110
Usable soil depth	to LC	48	inches				
Maximum Trench		24	inches, mea	sure	d on downhil	I side of tren	nch
Minimum Soil Cover		6	inches, measured on downhill side of trench inches				
Artificial Drainage	Required	No					

Repair System

IIIbg -Pump to	าร					
Yes			Mark Control of the			
Accepted (25%	reductio	on) System				
	0.70	gal/day/ft*	Saprolite System	No		
Total Trench/ Bed Length Trench Spacing			214	feet		No
	9	ft on center	· iii Oyotoiii	110		
to LC	48	inches				
Maximum Trench Depth of		24 inches, measured on downhill side of trench				
ver	6	inches				
	Yes Accepted (25% d Length	Yes Accepted (25% reduction 0.70 d d Length 214 g to LC 48 d d Depth of 24 d	Yes Accepted (25% reduction) System 0.70 gal/day/ft² d Length 214 feet 9 ft on center to LC 48 inches n Depth of 24 inches, measured or	Accepted (25% reduction) System 0.70 gal/day/ft² Saprolite System d Length 214 feet Fill System 9 ft on center to LC 48 inches n Depth of 24 inches, measured on downhill side of trench		

Potential Drainlines flagged at site on 9-ft centers.

	Line #	Calar	Relative	Drainline	Field
÷	LITTE #	Color	Elevation (ft)	Length(ft)	Length(ft)
Repair	1	W	98.30	110	125
æ	2	R	97.47	110	161
a	3	Υ	96.69	110	206
Initial	4	В	95.61	110	219
_	Septic T	ank:	96.69		
	Pump Tank:		96.69	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 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 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.

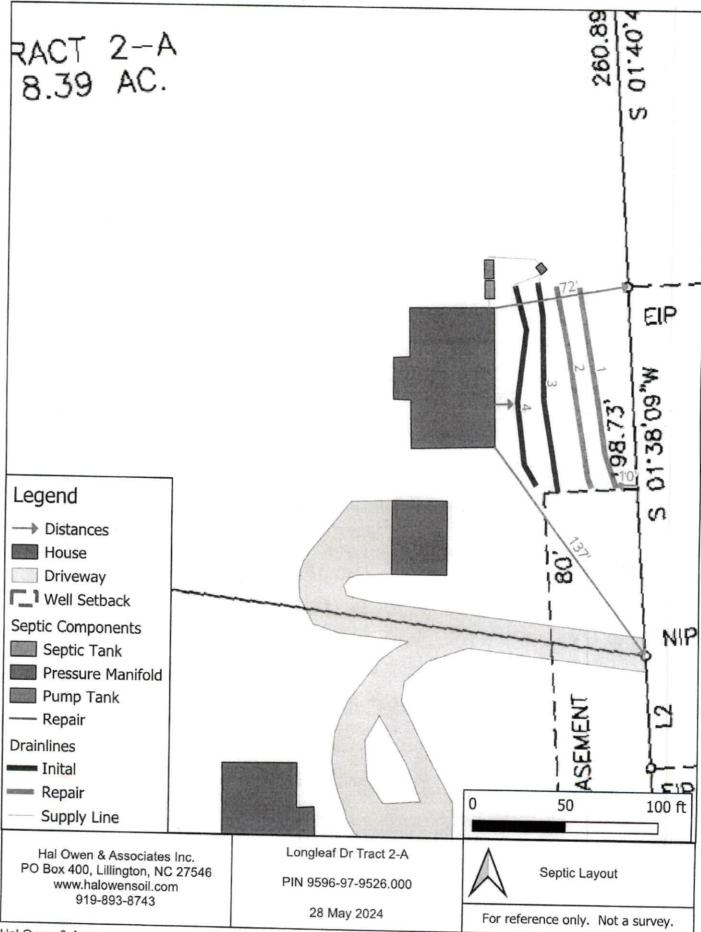
The wastewater system shall not be covered until inspected by Hal Owen & Associates and shall not be placed into use until an Authorization to Operate is issued.

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.

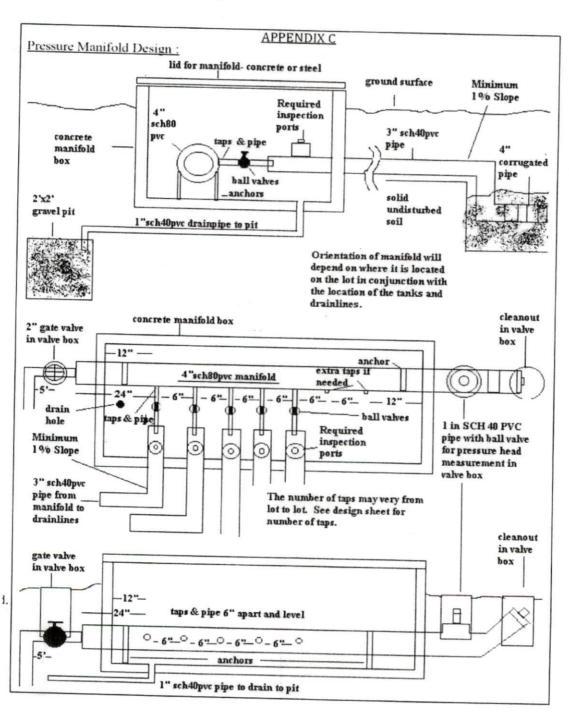
The pump tank may be eliminated if gravity distribution can be demonstrated.



Pre	ssure Man	ifold Desi	gn Criteria					
	IGN DAILY F			_gallons/day	SOIL LTAR	. 0.70	gpd/ft ²	
TAN	KS (min)	Septic Tank	1250	_gallons			gallons	
SUP	PLY LINE	Length		_ft	Diameter	2	" SCH 40	PVC
		Minimu	m flow (gpm) to	– maintain 2fps s	scour velocity	20.9	anm	VO
		Sup	ply Pipe Volume	9 4	gallons	20.0	-gpiii	
			2 100		_9			
TRE	NCHES D	rainline Type:	Accepted (25%	reduction) Sys	tem			
		Maximum	Trench Depth o	f 24	inches, mea	sured on lo	ow side of t	rench
	Т	rench width:	3	feet	Effective Tren	nch Width:	4	ft
			643	ft ²	Minimum Line			
				_				- ' '
MAN	IFOLD	Length (ft):	2.5	Diameter:	4" sch 80 pv	С	Elevation:	97 69
		# Taps	2	_ Tap Configura	tion: 6in. spa	cing, 1 side	e of manifol	ld
TAP	CHART							
Line	Color	Relative		Tap Size/	flow/tap		LTAR]
		Elevation	Length(ft)	Schedule	gpm	gpd/ft	(gpd/ft ²)	
3	Y	96.69	110	3/4"sch 40	12.50	2.727	0.909]
4	В	95.61	110	3/4"sch 40	12.50	2.727	0.909	
	-							
	Tota	al Drainline:	220	Total Flow:	25.00			
DURA					Tar	rget LTAR*:	0.93	2
	CALCULAT				L	TAR + 5%:	0.980	
	Volume:		gallons, with Pip					pipe
	Pump Run Ti		4.31	,	Pump Run Tir	me (min):	24.00	
	down (in.):		gallons +	20.25			inches	
	Tank Elevation		96.69		Elevation (ft):			
	n Head:		*Hazen Williams Fo	rmula (use supply I	ine length+70' fo	r fittings in p	ump tank)	
	tion Head: n Head:	6.0						
Desig	n nead;	2.0		Total	Dynamic Hea	id (TDH): _	9.21	ft
Pump	to Deliver:	25.0	gpm @	9.2	ft TDH			
UE LA	4V C'							
VEIVIA	4X Simplex	Control Pane	el with elapsed ti	me meter, ever	it counter, au	dible and v	risible alarm	1 (w/
silence	e button), nan	d-off-automa	atic (HOA) switch	h, pump run ligh	nt, and pump	on separat	e circuits is	requirec
Jonna	n panel bottor	n snall be m	ounted a minimi	um of 24 in. abo	ve finished a	rade within	50 ft of pu	mp tank.
sept	ic tank filter is	required. Fi	oats to be deter	mined by type of	of pump tank i	used.		
	Possible P	∍ριις Tank; ∏ ump Tank: □	Brantley 1000 ST	IB-499	Possible Sep			
			January 1000 P	1-237	Vol(gal): _	1000	GPI: _	20.25
	Possible Pump:					aht (in) =	1.4	

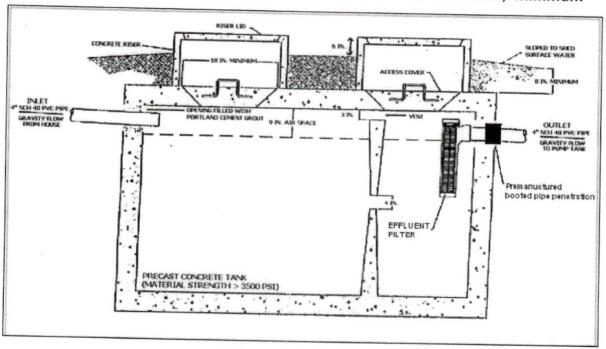
Pressure Manifold Diagram

Tap#	1	2	
tap size	Manifold 3/4"sch 40	4"SCH 80 PVC 3/4"sch 40	
flow (gpm) length (ft)	12.50 110	12.50 110	



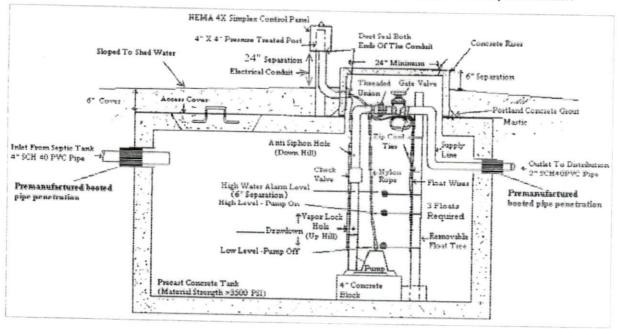
Typical Septic Tank

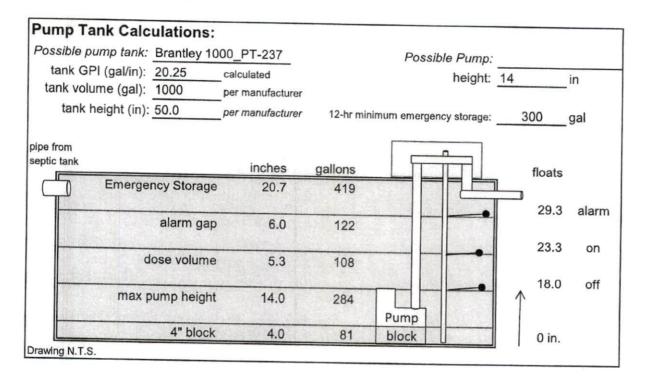
1250 GALLON SEPTIC TANK, minimum

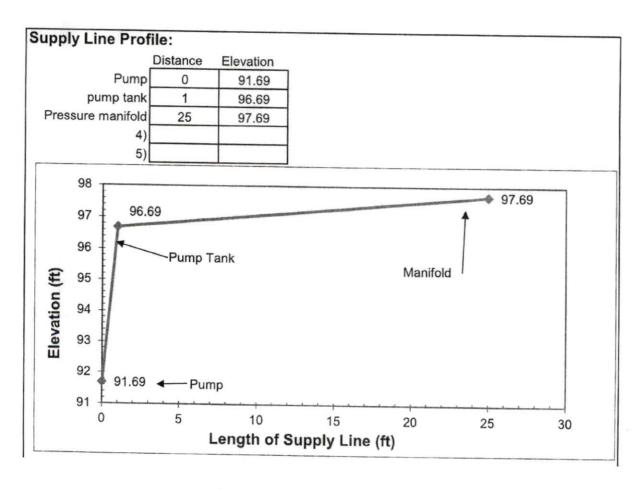


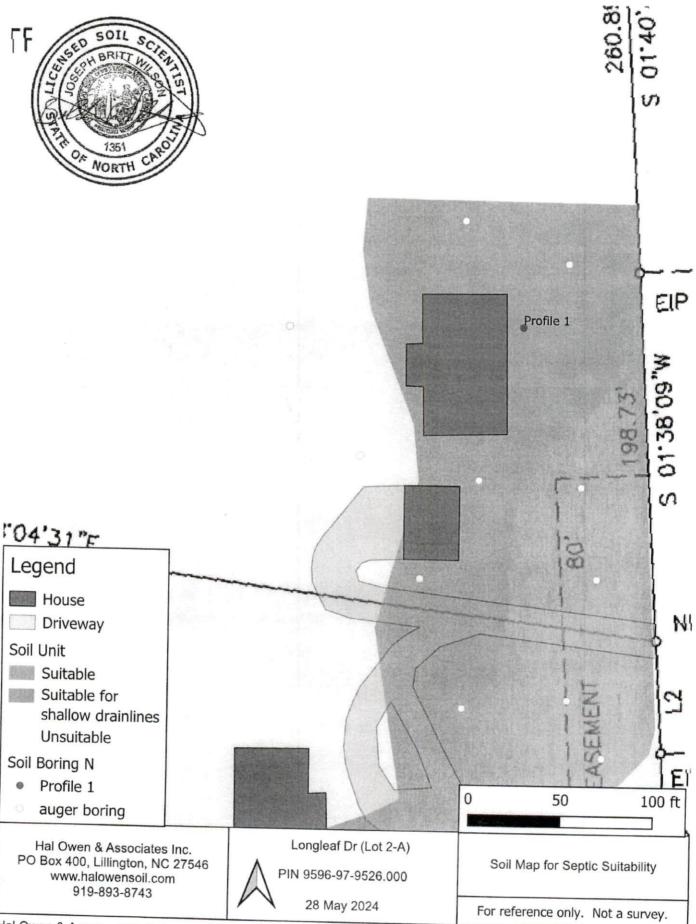
Typical Pump Tank

1250 GALLON PUMP TANK, minimum









AOWE Evaluation - Lot 2A Longles Level Form for On-Site Wastewater System

	NAME:		nmerle and B	ruce Steger	OWNE	R ADDRESS: 92 Dove Trail	
PROPOSE	D FACILITY	Residenti	al	PROPOSED DES	IGN FLOW	7: 600 PROPERTY SIZI	E. 9.20
LOCATIO	N OF SITE:	Longleaf	Dr, Lillington	n, NC 27546		PIN: 9596-97-9526.0	
WASTEW	ATER TYPE	: Domestic	100		-	COUNTY: Harnett	100
WATER S	UPPLY:	Public Wa	ater	WATE	D CHIDDI	Y SETBACK: 10	
EVALUAT	TION METHO			NAIL			
EVALUAT	TED BY:			and Steven Boor			Т
			, 200 1102 0	and Steven Bool		DATE EVALUATED	1: 3/25/24
			INITIAL S	YSTEM		DED AID GROW	
AVAILA	BLE SPACE	643	ft ² trench b			REPAIR SYSTI	
SY	STEM TYPE	Accepted	(25% reduct	ion) System		643 ft² trench botton	
	SITE LTAR	0.70	gpd/ft ²	ion) System		Accepted (25% reduction	n) System
MAX TREN	NCH DEPTH	017	The state of the s	sured on downl	211 -2.4 \	0.70 gpd/ft ²	
	SSIFICATION		menes (mea	isured on down		24 inches (measure	d on downhill side)
	COMMENTS				OTHE	R FACTORS	
PROFILE							
HORIZON		CONSIS	TEVTUDE	CTRUCTURE) (D IDD)		
DEPTH	COLOR	TENCE	TEXTURE	STRUCTURE	l	OTHER PROFILE FA	CTORS
0-3	2.5Y 2.5/1		10		LOGY		
3-36	10YR 5/6	VFR	LS	GR	SEXP	LANDSCAPE POSITION	L
36-48		VFR	LS	GR	SEXP	SOIL WETNESS DEPTH	>48"
30-40	10YR 6/8	FR	SL	GR	SEXP	SOIL WETNESS COLOR	
						SOIL DEPTH	48"
						SAPROLITE CLASS	NA
						RESTRICTIVE HORIZON	NA
DD OFFI III o						SLOPE %	5
	CLASSIFICA'	TION	Suitable	LTAR gpd/ft ²	0.7	SLOPE CORRECTION (IN)	1.8
COMMENT							
PROFILE							
HORIZON	COLOR	CONSIS	TEXTURE	STRUCTURE	MINERA	OTHER PROFILE FAC	TORS
DEPTH		TENCE	in the second		LOGY		7.01.0
						LANDSCAPE POSITION	
						SOIL WETNESS DEPTH	
						SOIL WETNESS COLOR	
						SOIL DEPTH	
	1-1-1					SAPROLITE CLASS	NA/C/II
						THE REAL PROPERTY AND ADDRESS OF THE PARTY AND	NA/S/U
						RESTRICTIVE HORIZON SLOPE %	(thickness and dep
PROFILE C	LASSIFICAT	TION	Suitable/Un	LTAR gpd/ft ²			0.0
COMMENT				Sparit		SLOTE CORRECTION (IN)	0.0

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.