

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

New Expansion Repair Relocation Relocation of Repair Area
Owner or Legal Representative Information:
Name: Caviness and Cates
Mailing address: 639 Executive Place Ste. 400 City: Fayetteville State: NC Zip: 28305
Phone: 910-709-9801 Email: pam@cavinessandcates.com
Authorized Onsite Wastewater Evaluator Information:
Name: Mike Eaker Certification #: 10013E Certification Number Number
Mailing address: PO Box 9321 City: Fayetteville State: NC Zip: 28311
Authorized Onsite Wastewater Evaluator Information: Name: Mike Eaker Mailing address: PO Box 9321 Phone: 910-822-4540 Email: pam@cavinessandcates.com Certification #: 10013E City: Fayetteville State: NC Zip: 28311 Mike@southeasternsoil.com
Site Location Information:
Site address: 441 Black Duck Lane, Lillington, NC 27546
Tax parcel identification number or subdivision lot, block number of property: Ducks Landing Lot 101
0527-51-1388.000 County: Harnett
Saprolite System: Yes No Subsurface Operator Required: Yes No Water Supply Type: Private Well Public Water Supply Spring Other: Facility Type: Residential 4 # Bedrooms 8 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 9 day of May , 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 9 day of May , 2030 . Signature of Authorized Onsite Westernets Finds to
Signature of Authorized Onsite Wastewater Evaluator:
Signature of Owner or Legal Representative: Pamela M Gaddie
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:

Southeastern Soil & Environmental Associates, Inc.

P.O. Box 9321 Fayetteville, NC 28311 Phone/Fax (910) 822-4540 Email mike@southeasternsoil.com

May 9, 2025

Ms. Pamela Geddie Caviness & Cates 639 Executive Place, Suite 400 Fayctteville, NC 28305

Re: Soil/site evaluation for subsurface waste disposal (GS 130A-336.2) AOWE, Ducks Landing, Lot 101, PIN 0527-51-1388.000, 441 Black Duck Lane, Lillington, Harnett County, North Carolina

Dear Ms. Geddie.

A soil/site evaluation has been conducted on the aforementioned property at your request. The purpose of the investigation was to determine if soils were suitable or provisionally suitable for a subsurface waste disposal system (conventional, accepted and innovative) to serve a proposed single-family residence (4-bedroom home). All ratings and determinations were made in accordance with "Onsite Wastewater Rules, 15A NCAC 18E". This LSS evaluation is being submitted to meet the requirements of GS 130A-336.2 (AOWE).

The soil evaluation was completed on February 27, 2025. Hand auger borings were advanced under moist soil conditions. The site essentially lies on a linear slope landscape (2-4% slope). Soil borings conducted in most of this area consisted of 6 or more inches of loamy sand underlain by sandy loam and/or sandy clay loam to 48 or more inches below the soil surface. Soil wetness and/or parent material (greater than 50%) was not observed shallower than 38 inches below the soil surface (initial system) and 45 inches (repair system). All other soil characteristics were suitable to at least 48 inches.

Based on soil borings and site conditions, the site would be designated suitable for a pump to a shallow accepted subsurface waste disposal drainfield (0.40 gal/day/ft2 LTAR; initial system). There is enough suitable soil area to allow for a pump to a shallow accepted subsurface septic system repair (0.40 gal/day/ft2). A map showing the approximate location of the site and proposed septic layout accompanies this report.

[Note: No grading, rutting or other soil disturbance can occur in or near the proposed septic area. Any grading can alter the findings of this report and render the site unusable. As such, we recommend the builder protect the proposed septic areas with rope, flagging, fencing, etc.]

Design Summary

- Pump to Accepted product with d-box (300', see septic layout)
- 480 gal/day flow rate (4BR)
- 18" maximum trench depth
- 0.40 gpd/ft2 LTAR (initial and repair)
- 1000-gallon septic and pump tank (certified watertight)
- Pump to produce 35.55 gal/min @, 17.16 feet TDH
- Pump dose 140 gallons (7.0-inch drawdown)
- No grading, rutting or filling in septic areas
- No vertical cuts (greater than 2') within 15' of septic lines/areas
- Keep tanks and drainlines 10' from property lines
- Keep supply line 5 or more feet from property lines
- Install in dry soil conditions
- Maintain natural contours when clearing the lots
- Direct gutter water away from septic system
- AOWE must preapprove Licensed installer
- Preconstruction conference required 2 weeks prior to installation of septic
- Contractor to provide 2 week's notice prior to installation

During site construction, it is important not to impact and suitable or provisionally suitable soil areas with activities such as excavation or filling. Only the vegetation should be removed in the areas of the proposed septic drainfields to prevent any disturbance of naturally occurring soil. We recommend all lot clearing activity be delayed until the local health department issues a permit.

To the extent possible, we have identified the soil types that will impact the flow of wastewater on this site and have provided a professional opinion as to the best septic system layout. This report does not guarantee that the proposed septic system will properly function for any specific length of time.

Sincerely,

Mike Eaker

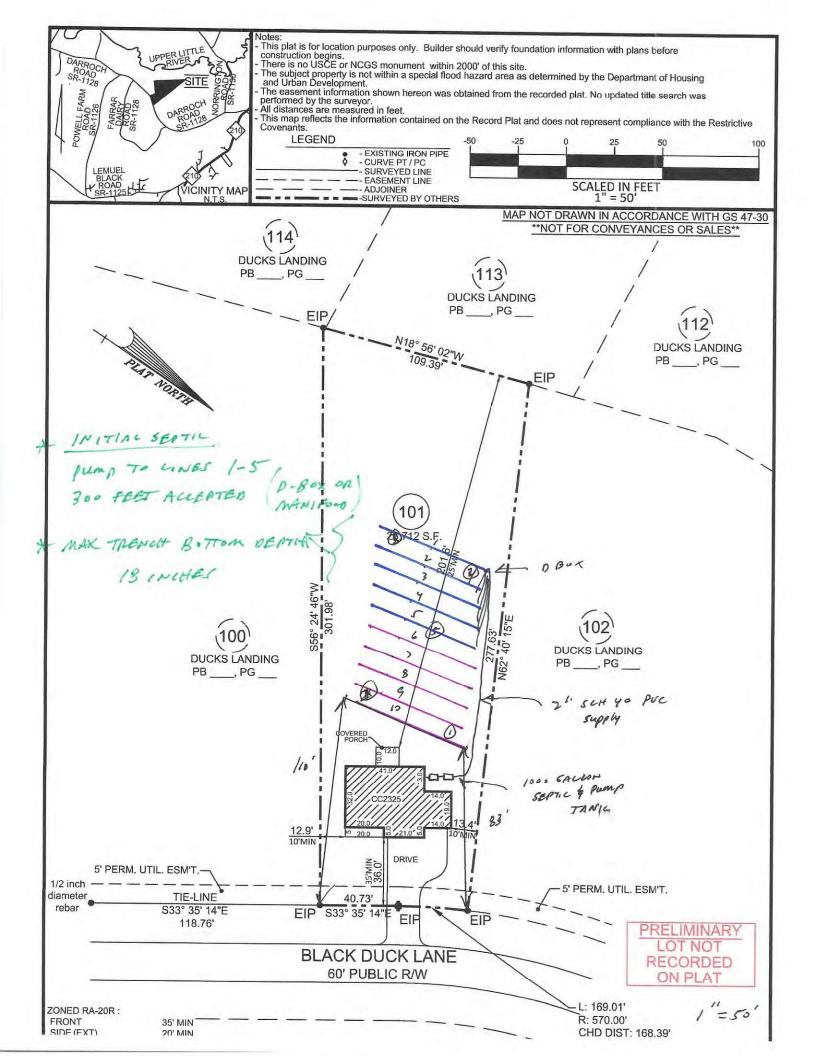
NC Licensed Soil Scientist # 1030

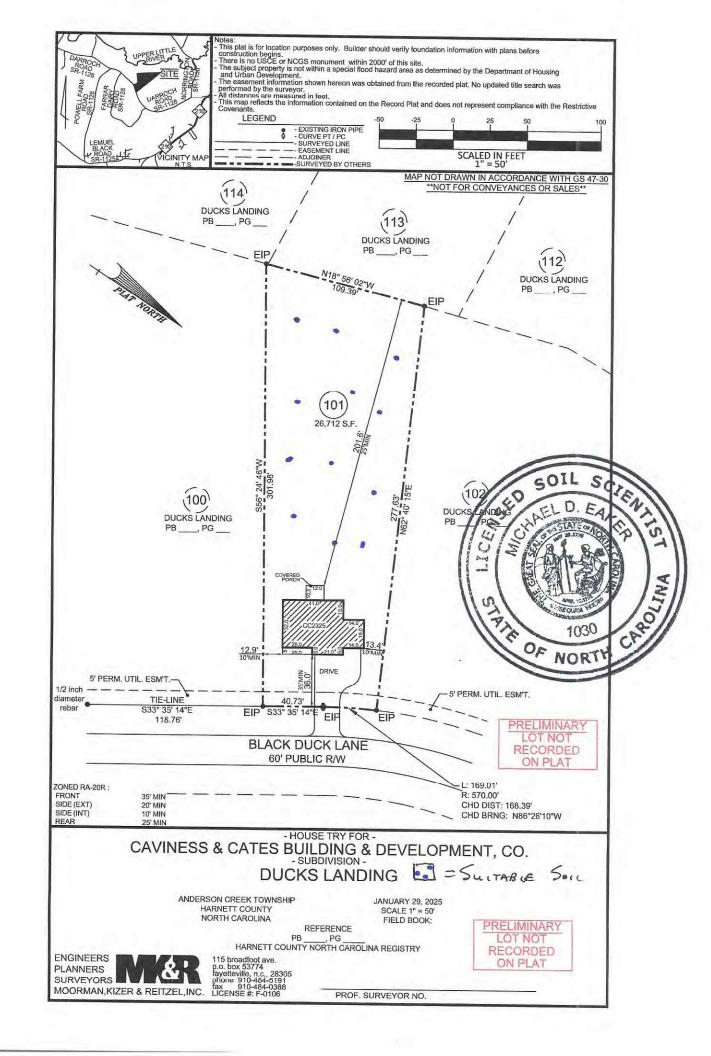
NC Authorized Wastcwater Evaluator 10013E

SOUTHEASTERN SOIL & ENVIRONMENTAL ASSOC., INC.

PROPOSED SUBSURFACE WASTE DISPOSAL SYSTEM DETAIL SHEET

	SUBDI	VISION: Du	ucks Landing		LOT 101			
	INITIA	L SYSTEM: A	ccepted 25% Reduction		REPAIR: Accepted 25% Reduction			
	DISTRI	BUTION: Pu	imp to D. Box		DISTRIBUTION Pump to D. Box			
	BENCH	IMARK:	100.0		LOCATION FC 101/102 LTAR 0.40 gpd/ft2 PUMP TANK SIZE 1000 Gallons			
	NO. BE	DROOMS:	4					
	SEPTIC	TANK SIZE	1000 Gallons					
	LINE	FLA	G COLOR	ELEVATION	<u>LENGTH</u>			
	1	R		102.00	60			
	_ 2	V	/	101.80	60			
Initial	_ 3	R	XL	101.70	60			
	4	V		101.60	60			
	_ 5	R		101.40	60			
					300 TOTAL			
Donoir	6	W	Ĭ.	101.20	60			
Repair	7	R		101.20	60			
	8	W		101.10	60			
	9	R		100.90	60			
	10	V		100.80	60			
	-				300 TOTAL			
	BY Mi	ke Eaker			DATE 2/27/25			
	TYPICAL PROFILE				THERE SHALL BE NO GRADING,			
	0-16	LS/SL	VFr/Fr/Gr		CUTTING, LOGGING OR OTHER SOIL			
Initial	16-48	SCL	Fi/SBk		DISTURBANCE IN SEPTIC AREA			
	CR2	34"			HEALTH DEPARTMENT USE ONLY.			
					DESIGNS DO NOT GURANTEE FUNCTIONALITY			
	0-20	LS/SL	VFr/Fr/Gr					
Repair	20-48	SL/SCL	Fi/SBk		Certification Rumber			
	CR2	45"			Certification Rumber R			





Sheet 1 of 2 ID #:

COUNTY: Harnett

SOIL/SITE EVALUATION for ON-SITE WASTEWATER SYSTEM

(Complete all fields in full)

OWNER: Caviness & Cates

ADDRESS: 639 Executive Place, Suite 400, Fayetteville, NC 28305

PROPOSED FACILITY: SFD

PROPOSED DESIGN FLOW (.1949): 480 GPD (4BR)

LOCATION OF SITE:

Bladauck Lane, Lillington, NC (Lot 101) Ducks Landing

APPLICATION DATE
DATE EVALUATED:02/27/25
PROPERTY SIZE: 0.613 Ac
PROPERTY RECORDED

WATER SUPPLY: ☐ Private X Public Well ☐ Spring EVALUATION METHOD: X Auger Boring ☐ Pit ☐ Cut TYPE OF WASTEWATER: X Sewage ☐ Industrial Process ☐ Mixed R **SOIL MORPHOLOGY** 0 **OTHER** (.1941)F PROFILE FACTORS .1940 LANDSCAPE HORIZON DEPTH POSITION/ PROFILE .1942 SLOPE % (IN.) .1941 CLASS .1943 .1941 SOIL .1956 .1944 STRUCTURE/ WETNESS/ CONSISTENCE/ SOIL SAPR RESTR & LTAR TEXTURE MINERALOGY DEPTH COLOR 0 HORIZ CLASS 0-4 LS/Gr VFr/Nexp 45" NA NA LS 2-4% NA Suitable 10YR 5/4 0.40 4-16 LS/Gr VFr/NExp 1 10YR 6/4 16-30 SL/wf sbk Fr/SExp 7.5YR 6/8 30-45 SCL/mm sbk Fi, SExp 7.5YR 6/8 10YR 7/1 mot 45-48 SCL/wf sbk Fi, SExp 0-7 LS/Gr VFr/Nexp >48" NA NA NA Suitable LS 2-4% LS/Gr 10YR 5/4 0.40 7-26 VFr/Nexp 26-33 SL/wf sbk 7.5YR 6/4 Fr/SExp SCL/mm sbk 33-48 Fi/SExp 7.5YR 6/4 LS 2-4% 0-6 LS/Gr VFr/Nexp 42" NA NA NA Suitable 10YR 6/4 LS/Gr 0.40 6-24 VFr/NExp 3 7.5YR 6/8 24-31 SL/wf sbk Fr/SExp 7.5YR 5/8 31-42 SCL/wfsbk Fi, SExp 7.5YR 6/8 10YR 7/1 mot 42-48 SCL/wfsbk Fi, SExp LS 2-4% 0-10 LS/Gr 41" Fr/Nexp NA NA Suitable NA 10YR 6/4 0.40 10-23 LS/Gr Fr/Sexp 4 7.5YR 6/4 23-41 SCL/mm sbk Fi/SExp 41-48 SCL/wf sbk Fi/SExp 10YR 6/6 10YR 7/1 moy

DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM	OTHER FACTORS (.1946):
Available Space (.1945)	Yes	Yes	SITE CLASSIFICATION (.1948): Suitable
System Type(s)	Pump to Accepted	Pump to Accepted	EVALUATED BY: M. Eaker OTHER(S) PRESENT: D. Eaker
Site LTAR	0.40	0.40	

SOIL/SITE EVALUATION

(Continuation Sheet-Complete all field in full)

DEPARTMENT OF HEALTH AND HUMAN SERVICES DIVISION OF PUBLIC HEALTH ENVIRONMENTAL HEALTH SECTION ON-SITE WATER PROTECTION BRANCH

PROPERTY ID #: Ducks Landing Lot 101 DATE OF EVALUATION: 02/27/25

COUNTY: Harnett

P R O F I L E	.1940 LANDSCAPE POSITION/ SLOPE %	HORIZ ON DEPTH (IN.)	SOIL MORPHOLOGY (.1941)		OTHER PROFILE FACTORS				
			.1941 STRUCTURE/ TEXTURE	.1941 CONSISTENCE/ MINERALOGY	.1942 SOIL WETNESS/ COLOR	.1943 SOIL DEPTH	.1956 SAPRO CLASS	.1944 RESTR HORIZ	PROFILE CLASS & LTAR
	LS 2-4%	0-6	LS/Gr	VFr/NExp	38"	NA	NA	NA	Suitable
		6-16	SL/wf sbk	Fr/SExp	10YR 5/6				0.40
5		16-34	SCL/mm sbk	Fi/SExp	10YR 5/8				
		34-48	SCL/wf sbk	Fi/SExp	7.5YR 5/8m 10YR 7/1m				
6									
1									
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Updated February 2014

Travelers 1st Choice+®

DESIGN PROFESSIONALS LIABILITY COVERAGE DECLARATIONS

POLICY NO. 108040737

Travelers Casualty and Surety Company of America Hartford, Connecticut

(A Stock Insurance Company, herein called the Company)

Important note: This is a claims-made policy. To be covered, a claim must be first made against an insured during the policy period or any applicable extended reporting period.

This policy is composed of the Declarations, the Professional Liability Coverage, the Professional Liability Terms and Conditions, and any endorsements attached thereto.

ITEM 1	NAMED INSURED:						
	SOUTHEASTERN SOIL AND ENVIRONMENTAL ASSOCIATES						
	DBA:						
	Principal Address: PO BOX 9321 FAYETTEVILLE, NC 28311-9084						
ITEM 2	POLICY PERIOD: Inception Date: May 1, 2025 Expiration Date: May 1, 2026						
	12:01 A.M. standard time both dates at the Principal Address stated in ITEM 1.						
ITEM 3	ALL NOTICES PURSUANT TO THE POLICY MUST BE SENT TO THE COMPANY BY EMAIL, FACSIMILE, OR MAIL AS SET FORTH BELOW: Email: BSIclaims@travelers.com Fax: 1-888-460-6622						
	Mail: Travelers Bond & Specialty Insurance Claim P.O. Box 2989 Hartford, CT 06104-2989						
	Overnight Mail: Travelers Bond & Specialty Insurance Claim One Tower Square, MN06 Hartford, CT 06183						
	For questions related to claim reporting or handling, please call 1-800-842-8496.						

ITEM 4	COVERAGE INCLUDED	AS OF THE INCEPTION DATE IN ITEM 2:				
	Design Professionals Lia	bility Coverage				
TEM 5						
	PROFESSIONAL LIABI	ILITY COVERAGE LIMITS				
	Professional Services a Network and Information Security Offenses Coverage Limits:	\$2,000,000 for each Claim ; not to exceed				
		\$2,000,000 for all Claims				
	Deductible:	\$2,500 each Claim \$7,500 all Claims				
	Retroactive Date: July 27, 2005					
	Knowledge Date: May 1	1, 2024				
TEM 6	ADDITIONAL BENEFITS LIMITS:					
	Crisis Event Expenses Limits:	\$10,000 for each Crisis Event \$30,000 for all Crisis Events				
	Disciplinary or Regulatory Proceeding					
	Expenses Limits:	\$25,000 for each Disciplinary or Regulatory Proceeding \$50,000 for all Disciplinary or Regulatory Proceedings				
TEM 7	Expenses Limits: PREMIUM FOR THE POI	\$50,000 for all Disciplinary or Regulatory Proceedings				
	Expenses Limits: PREMIUM FOR THE POI	\$50,000 for all Disciplinary or Regulatory Proceedings LICY PERIOD: Policy Premium				
TEM 7	PREMIUM FOR THE POI \$8,423.00 F	\$50,000 for all Disciplinary or Regulatory Proceedings LICY PERIOD: Policy Premium REPORTING PERIODS:				
	PREMIUM FOR THE POI \$8,423.00 F OPTIONAL EXTENDED I Additional Premium Perce 125%	\$50,000 for all Disciplinary or Regulatory Proceedings LICY PERIOD: Policy Premium REPORTING PERIODS: entage: Additional Months:				
	PREMIUM FOR THE POI \$8,423.00 F OPTIONAL EXTENDED I Additional Premium Percei	\$50,000 for all Disciplinary or Regulatory Proceedings LICY PERIOD: Policy Premium REPORTING PERIODS: entage: Additional Months:				