

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: Cates Building
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 Mailing address: PO Box 9321 Phone: 910-822-4540 Email: pam@cavinessandcates.com Certification #: 10013E City: Fayetteville State: NC Zip: 28311 Mike@southeasternsoil.com
Authorized Onsite Wastewater Evaluator Information: Name: Mike Eaker Certification #: 10013E Certification #: 10013E
Name: Mike Eaker Certification #: 10013E Number 10013E Mailing address: PO Box 9321 City: Fayetteville State: NC Zip: 28311
Mailing address: PO Box 9321 City: Fayetteville State: NC Zip: 28311 Fhone: 910-822-4540 Email: Mike@southeasternsoil.com
Phone: 910-822-4540 Email: Mike@southeasternsoil.com
Site Location Information:
Site address: 402 Black Duck Lane, Lillington, NC 27546
Tax parcel identification number or subdivision lot, block number of property: Ducks Landing Lot 79
0527-51-6308.000 County: Harnett
System Information:
Wastewater System Type: Accepted (25% Reduction) Daily Design Flow: 360 gpd
Saprolite System: Yes ✓ No Subsurface Operator Required: Yes ✓ No
Water Supply Type: Private Well Public Water Supply Spring Other:
Facility Type:
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 14 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 14 day of May , 2030 .
Signature of Authorized Onsite Wastewater Evaluator:
Signature of Authorized Onsite Wastewater Evaluator: Pamela M Geddie Signature of Owner or Legal Representative: Pamela M Geddie
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:

Southeastern Soil & Environmental Associates, Inc.

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

May 14, 2025

Ms. Pamela Geddie Cates Building, Inc. 639 Executive Place, Suite 400 Fayetteville, NC 28305

Re: Soil/site evaluation for subsurface waste disposal (GS 130A-336.2) AOWE, Ducks Landing, Lot 79, PIN 0527-51-6308.000, 402 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 (3-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 March 13, 2025. Hand auger borings were advanced under moist soil conditions. The site essentially lies on a linear slope landscape (5-6% slope). Soil borings conducted in most of this area consisted of 3 or more inches of loamy sand underlain by sandy loam, sandy clay loam and/or silty 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 36 inches below the soil surface (initial system) and 37 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 (0.50 gal/day/ft2 LTAR; initial system). There is enough suitable soil area to allow for a pump to a porous panel block (50% reduction) 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 (195', see septic layout)
- 360 gal/day flow rate (3BR)
- 22" maximum trench depth0
- 0.50 gpd/ft2 LTAR (initial) and 0.4 gpd/ft2 (repair)
- 1000-gallon septic and pump tank (certified watertight)
- Pump to produce 21.33 gal/min @ 14.0 feet TDH
- Pump dose 90 gallons (4.5-inch drawdown)
- French Drain to be installed on the 78/79 property line (see map)
- 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

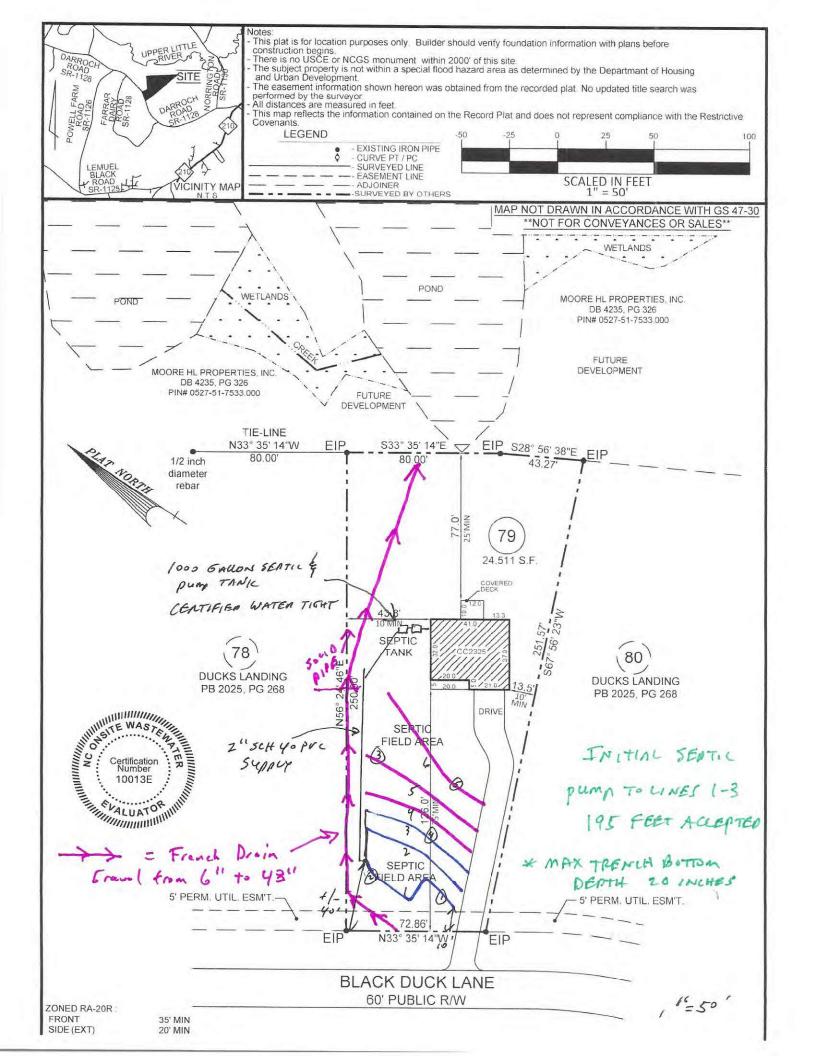
NC Authorized Wastewater Evaluator 10013E

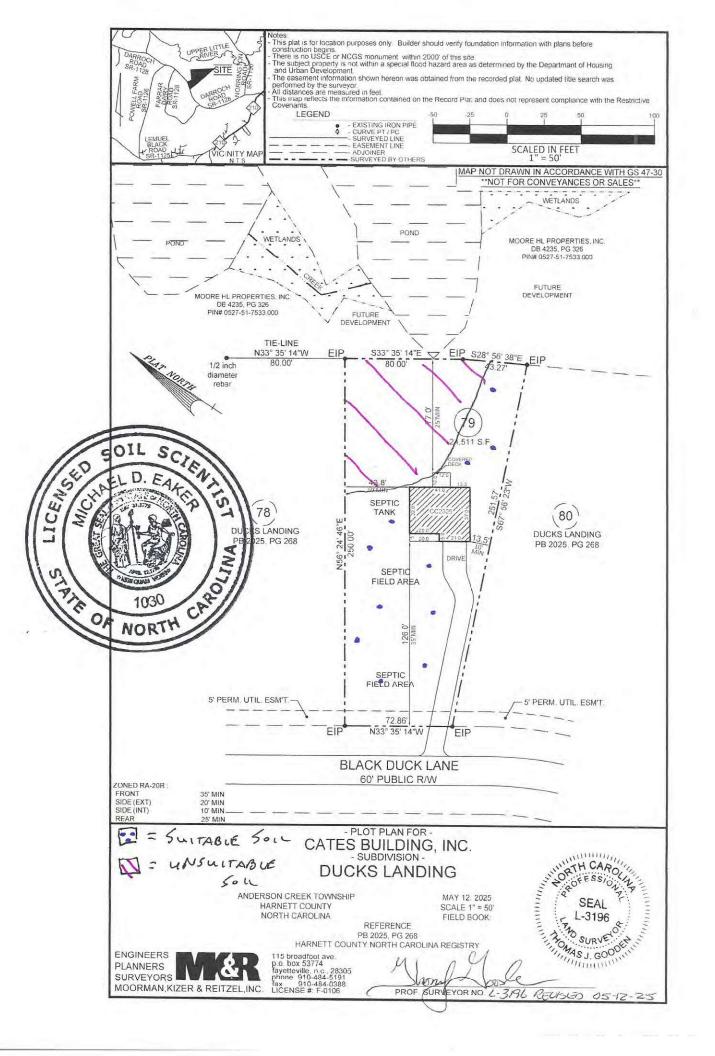
SOUTHEASTERN SOIL & ENVIRONMENTAL ASSOC., INC.

PROPOSED SUBSURFACE WASTE DISPOSAL SYSTEM DETAIL SHEET

	SUBDIVIS	SION: Ducks Landing		LOT 79
	INITIALS	YSTEM: Accepted 25% Reduction		REPAIR: PPBPS-Horizontal
	DISTRIBU	JTION: Pump to D. Box		DISTRIBUTION Pump to Serial
	BENCHM	ARK: 100.0	_	LOCATION IRON LOT 78/79 FC
	NO. BEDI	ROOMS: 3	_	LTAR 1) 0.5 R) 0.4
	SEPTIC TA	ANK SIZE 1000 Gallons	_	PUMP TANK SIZE 1000 Gallons
	LINE	FLAG COLOR	ELEVATION	LENGTH
	1	В	96.40	65
Initial	_ 2	R	95.90	65
miliaai	3	L	95.70	65
				195
	4	Р	95.20	70
Repair	5	L	94.40	75
	6	0	93.80	80
				225
	BY Cam	eron Raynor		DATE 03/17/2025
	TYPICAL P	ROFILE		THERE SHALL BE NO GRADING,
	0-26 L	S VFR GR		CUTTING, LOGGING OR OTHER SOIL
nitial	26-48 S	SCL FI SBK		DISTURBANCE IN SEPTIC AREA
		CR2>36"		HEALTH DEPARTMENT USE ONLY.
				DESIGNS DO NOT GURANTEE FUNCTIONALITY

Repair





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

Sheet 1 of 2
PROPERTY ID #: 0527-51-7533.000
COUNTY: Harnett

SOIL/SITE EVALUATION for ON-SITE WASTEWATER SYSTEM

(Complete all fields in full)

ADE PRO LOC	NER: Cates Buildir DRESS: 639 Execut POSED FACILI ATION OF SITI FER SUPPLY:	tive PI Ste 400 Fa TY: SFD E: Black Duck La	yetteville, NC 28305 PROPOSI ne (Ducks Landing SI Public	ED DESIGN FLOW (D Lot 79) Vell			DAT	LICATION DATE EVALUAT PERTY SIZE: PERTY RECO	ED; 24,511 S.F.
					YPE OF WAST	TEWATER:	⊠ Sewa	ge 🗌 Industri	al Process
P R O F I L	.1940 LANDSCAPE	HORIZON	SOIL MORPHOLOGY (.1941)		OTHER PROFILE FAC		HER		
#	POSITION/ SLOPE %	DEPTH (IN.)	.1941 STRUCTURE/ TEXTURE	.1941 CONSISTENCE/ MINERALOGY	.1942 SOIL WETNESS/ COLOR	.1943 SOIL DEPTH	.1956 SAPR O CLASS	.1944 RESTR HORIZ	PROFILE CLASS & LTAR
	L 5%	0-10	GR/LS	VFR/NEXP	CR2>48" 10YR 6/4 10YR 5/8	N/A	N/A	N/A	S 0.5
1		10-24	GR/LS	VFR/NEXP					
		24-48	SBK/SICL	FI/SEXP					
	L	0-3	GR/LS	VFR/NEXP	CR2>36"	N/A	N/A	N/A	
	5%	3-12	GR/SL	FR/NEXP	10YR 6/4				S 0.5
,		12-36	SBK/SCL	FI/SEXP	10YR 5/8				0.5
		36-48	SBK/SCL	FI/SEXP	10YR 5/8 10YR 7/2 10%				
	L 5%	0-3	GR/LS	FR/NEXP	CR2>48"	N/A	N/A	N/A	
	J /0	3-15	GR/LS	VFR/NEXP	10YR 6/4				S 0.4
		15-26	GR/SL	FR/NEXP	10YR 7/3				0.4
		26-48	SBK/SCL	FI/SEXP	10YR 5/8				
	6%	0-16	GR/LS	FR/NEXP	CR2>48"	N/A	'A N/A	N/A	
		16-23	GR/LS	FR/NEXP	10YR 6/4				S 0.5
1		23-48	SBK/SCL	FI/SEXP	10YR 5/8				0.5

DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM	OTHER FACTORS (.1946): N/A
Available Space (.1945)	YES	YES	SITE CLASSIFICATION (.1948): SUITABLE
System Type(s)	ACCEPTED	PANEL BLOCK	EVALUATED BY: M. EAKER OTHER(S) PRESENT: B.C. RAYNOR
Site LTAR	0.5	0.4	

COMMENTS:_

(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 #: 0527-51-7533 (LOT 79)

DATE OF EVALUATION: 03/13/2025

COUNTY: Harnett

P R O F I	10.12		SOIL MORPHO (.1941)	DLOGY	OTHER PROFILE	FACTORS	3		
L E #	.1940 LANDSCAPE POSITION/ SLOPE %	HORIZ ON DEPTH (IN.)	.1941 STRUCTURE/ TEXTURE	.1941 CONSISTENCE/ MINERALOGY	.1942 SOIL WETNESS/ COLOR	.1943 SOIL DEPTH	.1956 SAPRO CLASS	.1944 RESTR HORIZ	PROFILE CLASS & LTAR
	L 6%	0-13	GR/LS	FR/NEXP	CR2>37"	N/A	N/A	N/A	S
	070	13-33	GR/SL	FR/NEXP	10YR 5/8				0.4
i		33-48	SBK/SCL	FI/SEXP	SAME 5YR 5/8				



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		O AS OF THE INCEPTION DATE IN ITEM 2:	
	Design Professionals Lia	ability Coverage	
ITEM 5			
	PROFESSIONAL LIAB	ILITY COVERAGE LIMITS	
	Professional Services a Network and Informatio Security Offenses Coverage Limits:	on	
	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 2	27, 2005	
	Knowledge Date: May	1, 2024	
ITEM 6	ADDITIONAL BENEFITS Crisis Event Expenses Limits:	\$10,000 for each Crisis Event \$30,000 for all Crisis Events	
		too, ood for all orisis Events	
	Disciplinary or Regulatory Proceeding Expenses Limits:	\$25,000 for each Disciplinary or Regulatory Proceeding \$50,000 for all Disciplinary or Regulatory Proceedings	
ITEM 7	Regulatory Proceeding Expenses Limits: PREMIUM FOR THE PO	\$25,000 for each Disciplinary or Regulatory Proceeding \$50,000 for all Disciplinary or Regulatory Proceedings	
	Regulatory Proceeding Expenses Limits: PREMIUM FOR THE PO \$8,423.00 F	\$25,000 for each Disciplinary or Regulatory Proceeding \$50,000 for all Disciplinary or Regulatory Proceedings	
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ITEM 7	Regulatory Proceeding Expenses Limits: PREMIUM FOR THE PO \$8,423.00 F OPTIONAL EXTENDED Additional Premium Perc 125%	\$25,000 for each Disciplinary or Regulatory Proceeding \$50,000 for all Disciplinary or Regulatory Proceedings PLICY PERIOD: Policy Premium REPORTING PERIODS: entage: Additional Months:	
	Regulatory Proceeding Expenses Limits: PREMIUM FOR THE PO \$8,423.00 F OPTIONAL EXTENDED Additional Premium Perc	\$25,000 for each Disciplinary or Regulatory Proceeding \$50,000 for all Disciplinary or Regulatory Proceedings PLICY PERIOD: Policy Premium REPORTING PERIODS: entage: Additional Months:	