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 Certification #: 10013E

Mailing address: PO Box 9321 City: Fayetteville State: NC Zip: 28311

Phone: 910-822-4540 Email: Mike@southeasternsoil.com

NC ONSITE WASTEWATER EVALUATOR Certification Number 10013E

Site Location Information:

Site address: 451 Black Duck Lane, Lillington, NC 27546

Tax parcel identification number or subdivision lot, block number of property: Ducks Landing Lot 102

0527-51-1447.000 County: Harnett

System Information:

Wastewater System Type: Accepted (25% Reduction)

Daily Design Flow: 480 gpd

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 8 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 8 day of May, 2030.

Signature of Authorized Onsite Wastewater Evaluator:

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: 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
Cates Building
639 Executive Place, Suite 400
Fayetteville, NC 28305

Re: Soil/site evaluation for subsurface waste disposal (GS 130A-336.2) AOWE, Ducks Landing, Lot 102, PIN 0527-51-1447.000, 451 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 (7-10% slope). Soil borings conducted in most of this area consisted of 2 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 40 inches below the soil surface (initial system) and 34 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 shallow accepted subsurface waste disposal drainfield (0.40 gal/day/ft2 LTAR; initial system). There is enough suitable soil area to allow for 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

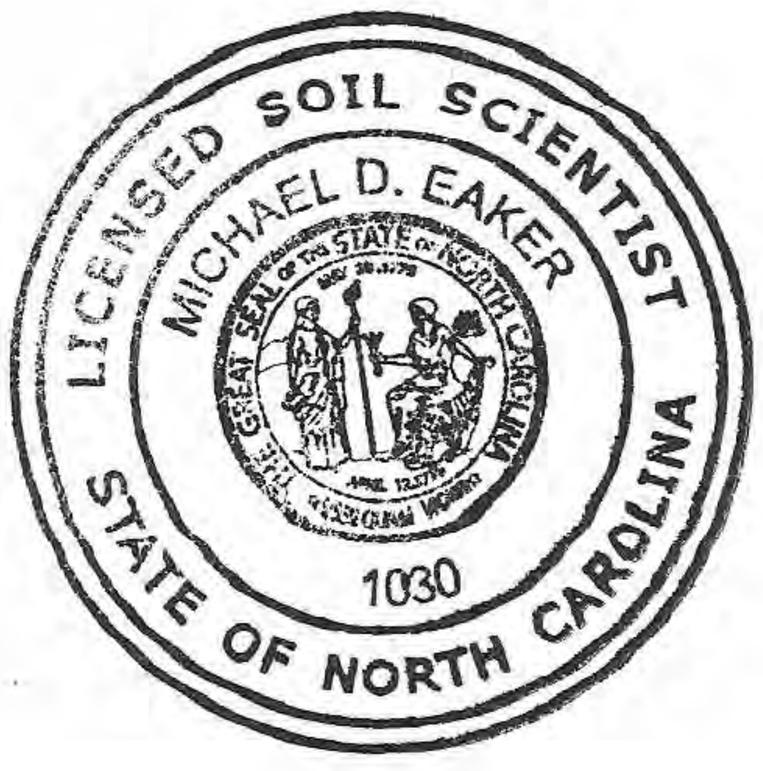
- Accepted product (300', see septic layout)
- 480 gal/day flow rate (4BR)
- 24" maximum trench depth (upslope side)
- 0.40 gpd/ft2 LTAR (initial and repair)
- 1000-gallon septic tank **(certified watertight)**
- No grading, rutting or filling in septic areas
- No vertical cuts (greater than 2') within 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

SUBDIVISION: Ducks Landing **LOT** 102

INITIAL SYSTEM: Accepted 25% Reduction **REPAIR:** Accepted 25% Reduction

DISTRIBUTION: Gravity Serial **DISTRIBUTION** Gravity Serial

BENCHMARK: **100.0** **LOCATION** FC 101/102

NO. BEDROOMS: 4 **LTAR** 0.40 gpd/ft2

SEPTIC TANK SIZE 1000 Gallons **PUMP TANK SIZE** 1000 Gallons

Initial

LINE	FLAG COLOR	ELEVATION	LENGTH
1	B	102.00	75
2	L	101.80	75
3	B	101.80	75
4	L	101.60	75
			300 TOTAL

Repair

5	B	101.50	75
6	L	101.40	75
7	B	101.40	75
8	L	101.10	75
			300 TOTAL

BY Mike Eaker **DATE** 2/27/25

TYPICAL PROFILE

Initial

0-12	LS/SL	VFr/Fr/Gr
12-48	SCL	Fi/SBk
CR2	40"	

Repair

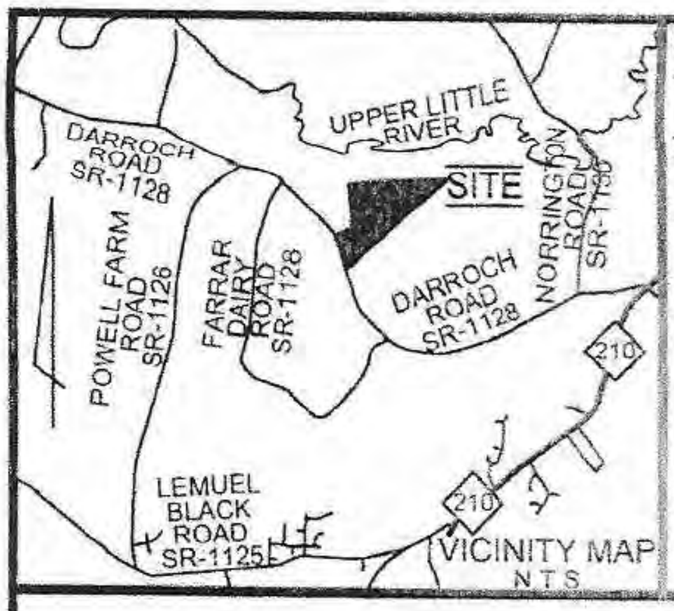
0-6	LS	VFr/Fr/Gr
6-48	SCL	Fi/SBk
CR2	34"	

THERE SHALL BE NO GRADING, CUTTING, LOGGING OR OTHER SOIL DISTURBANCE IN SEPTIC AREA

HEALTH DEPARTMENT USE ONLY.

DESIGNS DO NOT GURANTEE FUNCTIONALITY

NC ONSITE WASTEWATER EVALUATOR
Certification Number 10013E



Notes:
- This plat is for location purposes only. Builder should verify foundation information with plans before construction begins.
- There is no USCE or NCGS monument within 2000' of this site.
- The subject property is not within a special flood hazard area as determined by the Department of Housing and Urban Development.
- The easement information shown hereon was obtained from the recorded plat. No updated title search was performed by the surveyor.
- All distances are measured in feet.
- This map reflects the information contained on the Record Plat and does not represent compliance with the Restrictive Covenants.

LEGEND
- EXISTING IRON PIPE
- CURVE PT / PC
- SURVEYED LINE
- EASEMENT LINE
- ADJOINER
- SURVEYED BY OTHERS

-50 -25 0 25 50 100
SCALED IN FEET
1" = 50'

MAP NOT DRAWN IN ACCORDANCE WITH GS 47-30
NOT FOR CONVEYANCES OR SALES

PLAT NORTH

(113) DUCKS LANDING PB 2025, PG 268

(112) DUCKS LANDING PB 2025, PG 268

(111) DUCKS LANDING PB 2025, PG 268

(101) DUCKS LANDING PB 2025, PG 268

(103) DUCKS LANDING PB 2025, PG 268

N17° 17' 08"W 24.01'

TIE-LINE S18° 56' 02"E 109.39'

1/2 inch diameter rebar

EIP

N18° 10' 03"W 76.99'

N03° 05' 52"W 34.05'

(102) 28,011 S.F.

SEPTIC FIELD AREA

178.8' 25' MIN

S62° 27' 40"W 277.63'

261.82' N75° 25' 47"E

SEPTIC FIELD AREA

PATIO 10 10

28.0 33.0 CC1784 42.0 8.0 5 29.0 20.0

27.2' 10'MIN

26.8' 10'MIN

35'MIN 36.0' DRIVE 6.0'

*INITIAL SEPTIC LINES 1-4 300 FEET ACCEPTED

*24 INCH MAX TRENCH BOTTOM

1000 GALLON SEPTIC TANK

5' PERM. UTIL. ESM'T.

5' PERM. UTIL. ESM'T.

EIP

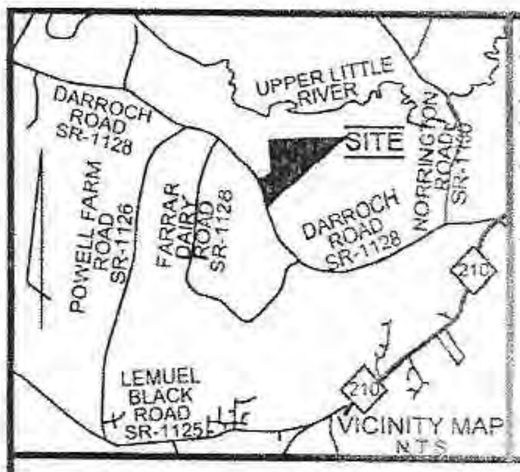
EIP

BLACK DUCK LANE
60' PUBLIC R/W

L: 73.49'
R: 330.00'
CHD DIST: 73.33'
CHD BRNG: S20°56'59"E

ZONED RA-20R :

FRONT	35' MIN
SIDE (EXT)	20' MIN
SIDE (INT)	10' MIN
SIDE (COR R/W	20' MIN



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SEPTIC FIELD AREA

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103 DUCKS LANDING PB 2025, PG 268

S02° 40' 15"W 277.63'

178.8' 25'MIN

261.82' N75° 25' 47"E

PATIO 10 10

28.0' 33.0' CC1784' 42.0' 8.0' 5 9.0' 20.0'

27.2' 10'MIN

26.8' 10'MIN

35'MIN 36.0' DRIVE

5' PERM. UTIL. ESM'T.

5' PERM. UTIL. ESM'T.

BLACK DUCK LANE
50' PUBLIC R/W

L: 73.49'
R: 330.00'
CHD DIST: 73.33'
CHD BRNG: S20°56'59"E

LICENSED SOIL SCIENTIST
MICHAEL D. EAKER
1030
STATE OF NORTH CAROLINA

ZONED RA-20R :

FRONT	35' MIN
SIDE (EXT)	20' MIN
SIDE (INT)	10' MIN
SIDE (COR R/W)	20' MIN
REAR	25' MIN

= SUITABLE SOIL

= UNSUITABLE SOIL

- PLOT PLAN FOR -
CATES BUILDING, INC.
- SUBDIVISION -
DUCKS LANDING

ANDERSON CREEK TOWNSHIP
HARNETT COUNTY
NORTH CAROLINA

APRIL 30, 2025
SCALE 1" = 50'
FIELD BOOK:
REVISED 7-21-25

REFERENCE
PB 2025, PG 268
HARNETT COUNTY NORTH CAROLINA REGISTRY

NORTH CAROLINA PROFESSIONAL SEAL L-3196 LAND SURVEYOR THOMAS J. GOODEN

ENGINEERS
PLANNERS
SURVEYORS
MOORMAN, KIZER & REITZEL, INC.
M&R
115 broadfoot ave.
p.o. box 53774
fayetteville, n.c., 28305
phone 910-484-5191
fax 910-484-0388
LICENSE #: F-0105

PROF. SURVEYOR NO. L-3196 REVISED 7-21-25

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

ID #: _____
COUNTY: Harnett

SOIL/SITE EVALUATION
***for* ON-SITE WASTEWATER SYSTEM**
(Complete all fields in full)

OWNER: Cates Building
ADDRESS: 639 Executive Place, Suite 400, Fayetteville, NC 28305
PROPOSED FACILITY: SFD PROPOSED DESIGN FLOW (.1949): 480 GPD (4BR)
LOCATION OF SITE: Black Duck Lane, Lillington, NC (Lot 102) Ducks Landing
WATER SUPPLY: ☐ Private X Public Well ☐ Spring ☐ Other _____
EVALUATION METHOD: X Auger Boring ☐ Pit ☐ Cut

APPLICATION DATE
DATE EVALUATED:02/27/25
PROPERTY SIZE: 0.643 Ac
PROPERTY RECORDED

TYPE OF WASTEWATER: X Sewage ☐ Industrial Process ☐ Mixed

PROFILE #	.1940 LANDSCAPE POSITION/ SLOPE %	HORIZON DEPTH (IN.)	SOIL MORPHOLOGY (.1941)		OTHER PROFILE FACTORS				PROFILE CLASS & LTAR
			.1941 STRUCTURE/ TEXTURE	.1941 CONSISTENCE/ MINERALOGY	.1942 SOIL WETNESS/ COLOR	.1943 SOIL DEPTH	.1956 SAPRO CLASS	.1944 RESTR HORIZ	
1	LS 1-2%	0-2	LS/Gr	VFr/Nexp	41" 7.5YR 6/4 7.5YR 5/8 7.5YR 5/8 10YR 7/1 mot	NA	NA	NA	Suitable 0.40
		2-23	SCL/mm sbk	Fi/SExp					
		23-41	SL/wf sbk	Fr/SExp					
		41-48	SCL/mm sbk	Fi, SExp					
2	LS 1-2%	0-6	LS/Gr	VFr/Nexp	42" 10YR 7/3 10YR 6/8 7.5YR 6/4 7.5YR 6/4 10YR 7/1 mot	NA	NA	NA	Suitable 0.40
		6-23	LS/Gr	VFr/Nexp					
		23-31	SL/wf sbk	Fr/SExp					
		31-42	SCL/mm sbk	Fi/SExp					
		42-48	SCL/wf sbk	Fi/SExp					
3	LS 1-2%	0-5	LS/Gr	VFr/Nexp	42" 10YR 6/6 7.5YR 6/4 10YR 6/4 10YR 7/1 mot	NA	NA	NA	Suitable 0.40
		5-23	LS/Gr	VFr/NExp					
		23-42	SCL/wf sbk	Fr/SExp					
		42-48	SCL/wfsbk	Fi, SExp					
4	LS 1-2%	0-6	LS/Gr	Fr/Nexp	43" 10YR 6/4 10YR 6/6 7.5YR 6/4 7.5YR 6/4 10YR 7/1 mot	NA	NA	NA	Suitable 0.40
		6-21	LS/Gr	Fr/Sexp					
		21-31	SL/wf sbk	Fr/SExp					
		31-43	SCL/mm sbk	Fi/SExp					
		43-38	SCL/wf sbk	Fi/SExp					

DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM
Available Space (.1945)	Yes	Yes
System Type(s)	Accepted	Accepted
Site LTAR	0.40	0.40

OTHER FACTORS (.1946): _____
SITE CLASSIFICATION (.1948): Suitable

EVALUATED BY: M. Eaker
OTHER(S) PRESENT: D. Eaker

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 102
DATE OF EVALUATION: 02/27/25
COUNTY: Harnett

PROFILE #	.1940 LANDSCAPE POSITION/ SLOPE %	HORIZ ON DEPTH (IN.)	SOIL MORPHOLOGY (.1941)		OTHER PROFILE FACTORS				PROFILE CLASS & LTAR
			.1941 STRUCTURE/ TEXTURE	.1941 CONSISTENCE/ MINERALOGY	.1942 SOIL WETNESS/ COLOR	.1943 SOIL DEPTH	.1956 SAPRO CLASS	.1944 RESTR HORIZ	
5	LS 1-2%	0-6	LS/Gr	VFr/NExp	40"	NA	NA	NA	Suitable 0.40
		6-12	LS/Gr	VFr/NExp	10YR 6/4				
		12-30	SCL/mm sbk	Fi/SExp	10YR 5/8				
		30-40	SCL/wf sbk	Fi/SExp	7.5YR 5/8				
		40-48	SCL/wf sbk	Fi/SExp	7.5YR 5/8 10YR 7/1m				
6	LS 1-2%	0-6	LS/Gr	VFr/NExp	34"				
		6-34	SCL/mm sbk	Fi/SExp	10YR 5/8				
		34-48	SCL/mm sbk	Fi/SExp	7.5YR 5/8 10YR 7/1m				

COMMENTS:

TRAVELERS

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 Liability Coverage

ITEM 5

PROFESSIONAL LIABILITY COVERAGE LIMITS

Professional Services and 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, 2024

ITEM 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**

ITEM 7 PREMIUM FOR THE POLICY PERIOD:

$8,423.00 Policy Premium

ITEM 8 OPTIONAL EXTENDED REPORTING PERIODS:

Additional Premium Percentage:	Additional Months:
125%	12
185%	24
200%	36
240%	60