



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: JSJ Builders Inc
Mailing address: 1135 Robeson St. City: Fayetteville State: NC Zip: 28305
Phone: 910-483-0796 Email: kevinshortridge@gmail.com

Authorized Onsite Wastewater Evaluator Information:

Name: John Kase Certification #: 10060E
Mailing address: PO Box 9321 City: Fayetteville State: NC Zip: 28311
Phone: 910-539-5439 Email: john@southeasternsoil.com



Site Location Information:

Site address: 493 Black Duck Lane , Lillington, NC 27546
Tax parcel identification number or subdivision lot, block number of property: _____
Parcel # 010527001260 Ducks Landing S/D Lot 105 County: Harnett

System Information:

Wastewater System Type: 1lb-Gravity to Accepted trenches with 25% reduction
Daily Design Flow: 360
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 10 day of June, 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 10 day of June, 2030.

Signature of Authorized Onsite Wastewater Evaluator: John Kase

Digitally signed by John Kase
DN: cn=John Kase, email=john@southeasternsoil.com, o=Southeastern Soil and Environmental Associates, c=North Carolina
Date: 2025.06.10 22:15:39-0400

Signature of Owner or Legal Representative: _____

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

June 10, 2025

Kevin Shortridge
JSJ Builders, Inc.
1135 Robeson Street
Fayetteville, NC 28305

Re: Soil/site evaluation for subsurface waste disposal (GS 130A-335(A2)/SL 2022-11), 493 Black Duck Lane, Lillington, NC 27546, Parcel Number 01027001260, Lot 105, Ducks Landing Subdivision, Harnett County, North Carolina

Dear Mr. Shortridge,

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 "Laws and Rules for Wastewater Treatment and Dispersal Systems, 15A NCAC 18E". **This LSS evaluation is being submitted to meet the requirements of GS 130A-335(a2)/SL 2022-11.**

The soil evaluation was completed on May 29, 2025. Hand auger borings were advanced under moist soil conditions. The site essentially lies on a linear slope landscape (2% slope). Soil borings conducted in most of this area consisted of 20 or more inches of loamy sand underlain by 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 48 inches below the soil surface in the initial system and 48 inches in the 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 gravity flow with parallel distribution to Accepted 25% reduction subsurface waste disposal drainfield (0.4 gal/day/ft² LTAR; initial system). There is enough suitable soil area to allow for gravity flow with serial distribution to Accepted 25% reduction subsurface subsurface septic system repair (0.4 gal/day/ft²). A map showing the approximate location of the site and proposed septic layout accompanies this report. If gravity flow cannot be achieved then a design revision may be required for a pump system. **[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.]**

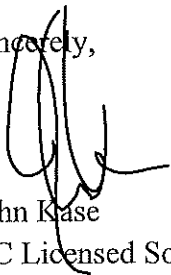
Design Summary

- Initial System: Gravity flow with serial distribution with Accepted 25% Reduction Trenches (225', see septic layout detail)
- 360 gal/day flow rate (3BR)
- 24" maximum trench depth as measured on the downhill side
- 0.4 gpd/ft² LTAR
- 1000-gallon septic pump tank (**certified watertight**)
- Repair System: Gravity flow with serial distribution with Accepted 25% Reduction Trenches (225', see septic layout design detail)
- 24" maximum trench depth as measured on the downhill side
- 0.4 gpd/ft² LTAR
- 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

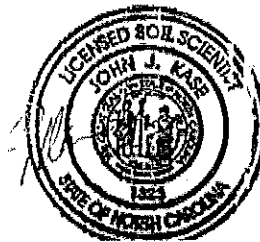
During site construction, it is important not to impact and suitable or provisionally suitable soil areas with activities such as excavation or filling. Only the vegetation should be removed in the areas of the proposed septic drainfields to prevent any disturbance of naturally occurring soil. We recommend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

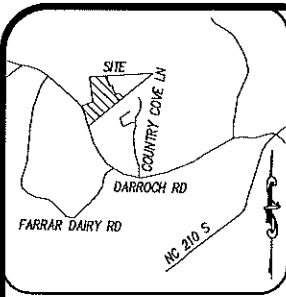
To the extent possible, we have identified the soil types that will impact the flow of wastewater on this site and have provided a professional opinion as to the best septic system layout. This report does not guarantee that the proposed septic system will properly function for any specific length of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

Sincerely,



John Kase
 NC Licensed Soil Scientist #1323
 NC Authorized Wastewater Evaluator #10060E
 NC REHS #1785





VICINITY MAP (NTS)

LEGEND:

EIP - EXISTING IRON PIPE
 EIB - EXISTING IRON BAR
 BEIP - BENT IRON PIPE
 BEIB - BENT IRON BAR
 CM - CONCRETE MONUMENT
 NIP - NEW IRON PIPE SET
 CATV - CABLE TV BOX
 EB - ELECTRIC BOX
 TEL - TELEPHONE PEDESTAL
 PP - POWER POLE
 OHL - OVERHEAD LINE
 LP - LIGHT POLE
 VM - WATER METER
 WV - WATER VALVE
 CO - SEWER CLEAN-OUT
 SW - SIDEWALK
 PO - PORCH
 N/F - NOW OR FORMERLY
 CYRD - COVERED
 CB - CATCH BASIN
 EOP - EDGE OF PAVEMENT
 BOC - BACK OF CURB

IMPERVIOUS SURFACE TABLE	
HOUSE	2,389 S.F.
DRIVEWAY	918 S.F.
SIDEWALKS	74 S.F.
TOTAL IMPERVIOUS AREA	3,381 S.F.

SETBACKS:

P.B. 2025, PG. 268

FRONT	35'
SIDE	10'
REAR	25'
SIDE STREET	20'

Legend	
—	Initial
-----	Repair

Initial System	
System Type:	11b - Gravity
Trench Type:	Accepted 25% Reduct.
Line Numbers:	1-4
Total Trench Length:	225'
Maximum Trench Depth:	24"
(measured on the downhill side)	

- NOTES:
1. ALL DISTANCES ARE HORIZONTAL GROUND DISTANCES IN U.S. SURVEY FEET UNLESS OTHERWISE NOTED.
 2. AREAS SHOWN HEREON WERE COMPUTED USING THE COORDINATE METHOD.
 3. LINES NOT SURVEYED ARE SHOWN AS DASHED LINES FROM INFORMATION REFERENCED ON THE FACE OF THIS PLAT.
 4. PROPERTY MAY BE SUBJECT TO ANY/ALL EASEMENTS AND RESTRICTIONS OF RECORD. THIS SURVEY IS A CORRECT REPRESENTATION OF THE LAND PLATTED AND OR DEEDED AND HAS BEEN PREPARED WITHOUT THE BENEFIT OF A TITLE REPORT. A NORTH CAROLINA LICENSED ATTORNEY-AT-LAW SHOULD BE CONSULTED REGARDING CORRECT OWNERSHIP, WIDTH AND LOCATION OF EASEMENTS, AND OTHER TITLE QUESTIONS REVEALED BY TITLE EXAMINATION.

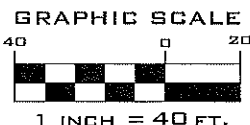
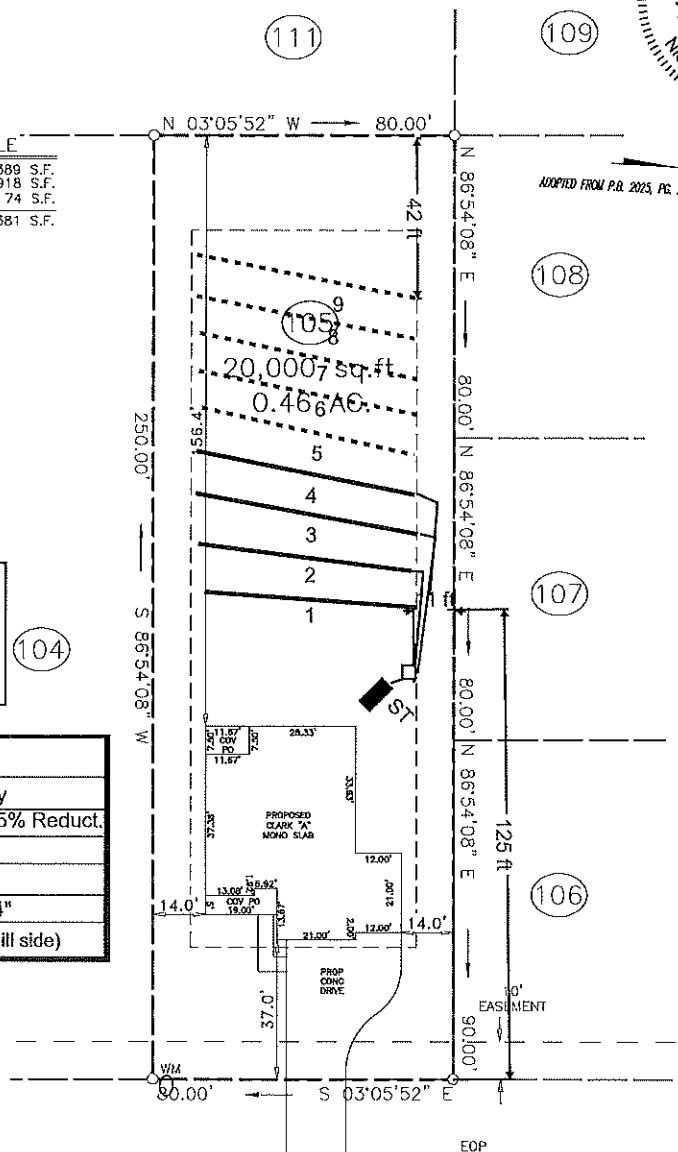
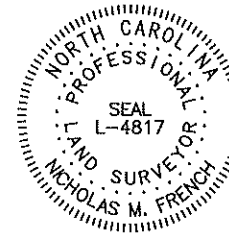
5. THIS PARCEL IS NOT LOCATED WITHIN A FLOOD HAZARD ZONE AS INDICATED ON CID NO. 370328 PANEL 0526, SUFFIX J, HARNETT COUNTY WITH AN EFFECTIVE DATE OF 10/03/2025.

CERTIFICATE OF ACCURACY & MAPPING
 I NICHOLAS M. FRENCH PLS CERTIFY THAT THIS MAP WAS DRAWN UNDER MY SUPERVISION FROM AN ACTUAL FIELD SURVEY DONE UNDER MY SUPERVISION, AND THAT THE ERROR OF CLOSURE AS COMPUTED BY CO-ORDINATES IS LESS THAN 1:10,000.

PRELIMINARY
 NICHOLAS M. FRENCH, PLS L-4817 DATE

THIS MAP IS ONLY INTENDED FOR THE PARTIES AND PURPOSES SHOWN. THIS MAP IS NOT FOR RECORDATION. NO TITLE REPORT PROVIDED. ANY VISIBLE ENCROACHMENTS ARE SHOWN HEREON.

THIS MAP MAY NOT BE A CERTIFIED SURVEY AND HAS NOT BEEN REVIEWED BY LOCAL GOVERNMENT AGENCY FOR COMPLIANCE WITH ANY APPLICABLE LAND DEVELOPMENT REGULATIONS AND HAS NOT BEEN REVIEWED FOR COMPLIANCE WITH RECORDING REQUIREMENTS FOR PLATS.



BLACK DUCK LANE
 60' PUBLIC R/W

PRELIMINARY

PROJECT:	DUCKS LANDING
DRAWN BY:	VIH
SURVEYED BY:	
FIELD WORK:	
DWG DATE:	05-16-2026

PLOT PLAN
 FOR
JSJ BUILDERS
 BLACK DUCK LANE
 LOT 105 DUCKS LANDING SUBDIVISION
 ANDERSON CREEK TWP, HARNETT CO., NC
 P.B. 2025, PG. 268

ECLS
 GLOBAL_{INC}
 U.S. VETERAN-OWNED
 19 N MCKINLEY ST
 COATS, NC 27521
 910.897.3257 (TEL) 910.897.3229 (FAX) 606-4175

PROPOSED SUBSURFACE WASTE DISPOSAL SYSTEM DETAIL SHEET

SUBDIVISION: Ducks Landing

LOT 105

INITIAL SYSTEM: Accepted 25% Reduction

REPAIR: Accepted 25% Reduction

DISTRIBUTION: Gravity Parallel

DISTRIBUTION Gravity Serial

BENCHMARK: 100.0

LOCATION H20 Meter - 3.3

NO. BEDROOMS: 3

LTAR 0.4 gpd/ft^2

SEPTIC TANK SIZE 1000 Gallons

PUMP TANK SIZE N/A

<u>LINE</u>	<u>FLAG COLOR</u>	<u>ELEVATION(FT)</u>	<u>LENGTH(FT)</u>
1	White	98	58
2	Blue	97.8	58
3	Red	97.6	58
4	White	97.2	58
			Total-232
5	Blue	96.9	59
6	Red	96.3	58
7	White	96	60
8	Yellow	95.4	60
			Total-238
9	Red	94.8	60 (Not Used)

BY John Kase

DATE 5-28-25

TYPICAL PROFILE

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

HEALTH DEPARTMENT USE ONLY.

DESIGNS DO NOT GURANTEEE FUNCTIONALITY

0-20	LS GR	VFR/NS/NP
20-48	CL SBK	FR/SS/P

0-33	LS GR	VFR/NS/NP
33-48	CL SBK	FR/SS/P

SOUTHEASTERN SOIL & ENVIRONMENTAL ASSOCIATES, INC.			SOIL/SITE EVALUATION SHEET				Sheet #: 1		
OWNER/APP. NAME:		JSJ Builders Inc.			SUBDIV./LOT#		Ducks Landing Lot 105		
LOCATION OF SITE:		493 Black Duck Lane, Lillington							
COUNTY:		Harnett		PROPERTY ID #:		#010527001260		DATE EVALUATED:	5/28/2025
PROPOSED FACILITY:		SFR		PROPOSED DESIGN FLOW (.0400):		360 gpd		PROPERTY SIZE	0.46 ac
WATER SUPPLY:		Public		WATER SUPPLY SETBACK:		10'			
TYPE OF WASTEWATER:			Domestic		EVALUATION METHOD:			Auger	
P R O F I L E #	.0502 LANDSCAPE POSITION/ SLOPE %	HORIZON DEPTH (IN.)	SOIL MORPHOLOGY		OTHER PROFILE FACTORS				.0509 PROFILE CLASS & LTAR
			.0503 STRUCTURE/ TEXTURE	.0503 CONSISTENCE/ MINERALOGY	.0504 SOIL WETNESS/ COLOR	.0505 SOIL DEPTH	.0506 SAPRO CLASS	.0507 RESTR HORIZ	
1	L	0-20	LS - GR	VFR/NS/NP		48	NOT OBSER VED	NOT OBSER VED	S - 0.4
	2%	20-48	CL-SBK	FRIABLE/SS/P					
	.0502(d) SLOPE CORRECTION								
	0.7"								
2	L	0-33	LS - GR	VFR/NS/NP		48	N.O.	N.O.	S - 0.5
	2%	33-48	CL-SBK	FRIABLE/SS/P					
	.0502(d) SLOPE CORRECTION								
	0.7"								
3	L	0-33	LS - GR	VFR/NS/NP		48	N.O.	N.O.	S-0.5
	2%	33-48	CL-SBK	FRIABLE/SS/P					
	.0502(d) SLOPE CORRECTION								
	0.7"								
4	L	0-24	LS-GR	VFR/NS/NP		48	N.O.	N.O.	S-0.4
	2%	24-48	CL - SBK	FRIABLE/S/P					
	.0502(d) SLOPE CORRECTION								
	0.7"								
DESCRIPTION:		INITIAL SYSTEM	REPAIR SYSTEM	SITE CLASSIFICATION (.0509):		Suitable			
Available Space		Suitable	Suitable	EVALUATED BY:		John Kase			
System Type(s):		25% Reduction	25% Reduction	OTHER(S) PRESENT:					
Site LTAR:		0.400	0.400						
Maximum Trench		24"	24"						
Saprolite System:		No	No						
Comments:		Trench bottoms depth measure on downslope side of trench..							





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.

