

ROY COOPER • Governor KODY H. KINSLEY • Secretary

MARK BENTON • Deputy Secretary for Health

SUSAN KANSAGRA • Assistant Secretary for Public Health

Division of Public Health

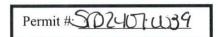
Submittal Includes:	(a2) Improvement Permit	(a2) Construction Authoriza	ation	
	IMPROVEME	ENT PERMIT FOR G.S. 130	A-335(a2)	
County: Harnett				
PIN/Lot Identifier: 053	9-90-2638			
Issued To: Smith Dou	ighlass Homes			
	2 Double Barrel St Lillingtor	n, NC		
Subdivision (if applicabl	e) Duncans Crossing	Lot #: 62	Block:	Section:
LSS Report Provided: Y	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			
If yes, name and license	number of LSS: Alex Adams - L	SS #1247		
New 🗸	Expansion	System Relocation	Change	of Use
Proposed Structure: S				
Number of bedrooms:	4 Number of Occupants: 8	Other:		
Design Wastewater Stre			industrial process	
Proposed Design Daily I	Flow: 480 GPD	Proposed LTAR (Initial): 0.35	Proposed LTAR (R	epair): 0.35
Proposed Wastewater S	System Type*: Type III (b) - Acc	epted Status (Initial) Pu	mp Required: 🗹 Yes	☐ No ☐ May be required
Proposed Wastewater S	System Type*: Type III (b) - Acc	epted Status (Repair) Pur	mp Required: 🗹 Yes	☐ No ☐ May be required
*Please include system	classification for proposed wastewe	ater system types in accordance wi	th 15A NCAC 18A .1961	Table V(a)
Saprolite System (initia	): Yes V No Saprolite	System (repair): Yes V No		
	Yes No If yes, specify: New			
	Yes No If yes, specify: Nev		than 6 inches of fill to	system area provide a fill plan)
Usable Soil Depth (Initia	al): 30 Usable So	oil Depth (Repair): 30		
	tial)‡: 18 Max. Tree			
	ired: Yes 🗹 No If yes, please			
	Private well Public well			Other:
	ts requirements of Rule .1945: Yes			
Permit valid for: V Five	e years [site plan submitted pursua	nt to GS 130A-334(13a)] No ex	cpiration [plat submitte	ed pursuant to GS 130A-334(7a)]
Permit conditions:				
Licensed Soil Scientist P	rint Name: Alex Adams	mA		7-9-24

The LSS evaluation is being submitted pursuant to and meets the requirements of G.S. 130A-335(a2).

\*See attached site sketch\*

NC DEPARTMENT OF HEALTH AND HUMAN SERVICES • DIVISION OF PUBLIC HEALTH





## This Section for Local Health Department Use Only

G.S. 130A-335(a3) states the following:
When an applicant for an Improvement Permit submits to a local health department an Improvement Permit application, the permit fee charged by the local health department, the common form developed by the Department, and a soil evaluation pursuant to subsection (a2) of this section, the local health department shall, within five business days of receiving the application, conduct a completeness review of the submittal. A determination of completeness means that the Improvement Permit includes all of the required components. If the local health department determines that the Improvement Permit is incomplete, the local health department shall notify the applicant of the components needed to complete the Improvement Permit. The applicant may submit additional information to the local health department to cure the deficiencies in the Improvement Permit. The local health department shall make a final determination as to whether the Improvement Permit is complete within five business days after the local health department receives the additional information from the applicant. If the local health department fails to act within any period set out in this subsection, the applicant may treat the failure to act as a determination of completeness. The Department shall develop a common form for use as the Improvement Permit.
The review for completeness of this Improvement Permit was conducted in accordance with G.S. 130A-335(a3). This Improvement Permit is determined to be:
☐ Incomplete (If box is checked, information in this section is required.)
The following items are missing:
Copies of this were sent to the LSS and the Applicant on
State Authorized Agent: Date:
Complete
Complete State Authorized Agent: Mah M REHS Date: 7-12-24

\*See attached site sketch\*





## CONSTRUCTION AUTHORIZATION FOR G.S. 130A-335(a2)

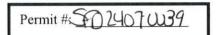
County: Harnett	
PIN/Lot Identifier: 0539-90-2638	
Issued To: Smith Douglas Homes	
Property Location: 352 Double Barrel St Lillington, NC	
AOWE/PE Plans/Evaluations Provided: Yes 🗹 No 🗌 If yes, name and license number of A	OWE/PE: Alex Adams - AOWE#10021E
Facility Type: SFH	
✓ New   Expansion   Repair   System Relocation	Change of Use
Basement? Yes V No Basement Fixtures? Yes	□ No
Type of Wastewater System* Type III (b) - Accepted Status (Initial)	yep III (b) - Accepted Status (Repair)
*Please include system classification for proposed wastewater system types in accordance wi	th 15A NCAC 18A .1961 Table V(a)
Design Daily Flow: 480 GPD Wastewater Strength: 🗸 domestic	high strength Industrial process
Session Law 2014-120 Section 53, Engineering Design Utilizing Low-flow Fixtures and Low-flow (if yes, please provide engineering documentation)	w Technologies? Yes No
Installation Requirements/Conditions	
Septic Tank Size: 1000 gallons Total Trench/Bed Length: 345 feet Trench/Bed	ed Spacing: 9 feet on center
Trench/Bed Width: 36 inches LTAR: 0.35 gpd/ft²	
Soil Cover: 6 inches Slope Corrected Maximum Trench/Bed Depth‡: 18 inch	es * Measured on the downhill side of the trench
Aggregate Depth: 6 inches above pipe 6 inches below pipe 12 inches	es total
Pump Tank Size (if applicable): 1000 gallons Requires more than 1 pump?	Yes 🕝 No
Pump Requirements: 10 ft. TDH vs. 21.3 GPM Grease Trap Size (if applicable): _	gallons
Distribution Method: ✓ Serial ☐ D-Box or Parallel ☐ Pressure Manifold(s) ☐ LPP	Other:
Artificial Drainage Required: Yes No V If yes, please specify details:	
Legal Agreements (If the answer is "Yes" to any type of legal agreements, please attach a cop	by of the agreement.)
Multi-party Agreement Required [.1937(h)]: Yes V No	
Easement, Right-of-Way, or Encroachment Agreement Required [.1938(j)]: Yes 🔽 No	
Declaration of Restrictive Covenants: Yes V No	
Pre-Construction Conference Required: Yes ☐ No 🗹	
Conditions: No Foundation or Gutter Drains directed towards septic field.	
If plumbing is sufficient then septic field may be dosed with gravity dispersa	I and pump tank removed.
The construction and installation requirements of Rules .1950, .1952, .1954, .1955, .1956, .19	957, .1958, and .1959 are incorporated by reference
into this permit and shall be met. Systems shall be installed in accordance with the attached	system layout.
Alex Adams	12-31-25
AOWE/PE Print Name: Alex Adams	xpiration Date: 12-31-25
AOWE/PE Signature: X Lex Noamo	Date: 7-9-24

This AOWE/PE submittal is pursuant to and meets the requirements of G.S. 130A-335(a2) and (a5).

\*See attached site sketch\*

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## This Section for Local Health Department Use Only

Initial submittal received:	7-1	1-24	by W
	Dat	e	Initials

#### G.S. 130A-335(a5) states the following:

When an applicant for a Construction Authorization, or an Improvement Permit and Construction Authorization together, submits a Construction Authorization, or an Improvement Permit and Construction Authorization application together, the permit fee charged by the local health department, the common form developed by the Department, and any necessary signed and sealed plans or evaluations conducted by a person licensed pursuant to Chapter 89C of the General Statutes as a licensed engineer or a person certified pursuant to Article 5 of Chapter 90A of the General Statutes as an Authorized On-Site Wastewater Evaluator, the local health department shall, within five business days of receiving the application, conduct a completeness review of the submittal. A determination of completeness means that the Construction Authorization or Improvement Permit and Construction Authorization includes all of the required components. If the local health department determines that the Construction Authorization or Improvement Permit and Construction Authorization is incomplete, the local health department shall notify the applicant of the components needed to complete the Construction Authorization or Improvement Permit and Construction Authorization. The applicant may submit additional information to the local health department to cure the deficiencies in the Construction Authorization or Improvement Permit and Construction Authorization. The local health department shall make a final determination as to whether the Construction Authorization or Improvement Permit and Construction Authorization is complete within five business days after the local health department receives the additional information from the applicant. If the local health department fails to act within any period set out in this subsection, the applicant may treat the failure to act as a determination of completeness. The applicant may apply for the building permit for the project upon the decision of completeness of the Construction Authorization or Improvement Permit and Construction Authorization by the local health department or if the local health department fails to act within five business days. The Authorized On-Site Wastewater Evaluator or licensed engineer submitting the evaluation pursuant to this subsection may request that the local health department revoke or suspend the Construction Authorization or Improvement Permit and Construction Authorization for cause. Upon written request of the Authorized On-Site Wastewater Evaluator or licensed engineer, the local health department shall suspend or revoke the Construction Authorization or Improvement Permit and Construction Authorization pursuant to G.S.

130A-23. The Department shall develop a common form for use as the Construction Authorization.	
The review for completeness of this Construction Authorization was conducted in accordance we Construction Authorization is determined to be:  Incomplete (If box is checked, information in this section is required.)	vith G.S. 130A-335(a5). This
The following items are missing:	
Copies of this were sent to the AOWE/PE and the Applicant on	
State Authorized Agent:	Date:
State Authorized Agent:  Make DEHr  Date  This Construction Authorization is issued pursuant to G.S. 130A-335(a2) and (a5) using the sig attached here. This Construction Authorization is subject to revocation if the site plan, plat, or Construction Authorization shall not be affected by a change in ownership of the site. This Cot to compliance with the provisions of the Laws and Rules for Sewage Treatment and Disposal any liabilities, duties, and responsibilities imposed by statute or in common law from any clair plans, evaluations, preconstruction conference findings, submittals, or actions from a person the General Statutes as a licensed engineer or a person certified pursuant to Article 5 of Chap Authorized On-Site Wastewater Evaluator in GS 130A-335(a2), (a5), and (a7). The Department agents, and the local health departments shall be responsible and bear liability for their action obligations under State law or rule, including the issuance of the operations permit pursuant Construction Authorization Expiration Date:  12-31-25	r the intended use changes. The construction Authorization is subject and to the conditions of this permit.  I be discharged and released from m arising out of or attributed to licensed pursuant to Chapter 89C of ter 90A of the General Statutes as an t, the Department's authorized ns and evaluations and other

\*See attached site sketch\*

## Adams Soil Consulting, PLLC 1676 Mitchell Road Angier, NC 27501 919-414-6761

alexadams@bcsoil.com

July 9, 2024 Project #1146

"The LSS/LG evaluation(s) attached to this application is to be used to issue an Improvement Permit in accordance with G.S. 130A-335(a2) and (a3)."

"The plans or evaluations attached to this application are to be used to issue a Construction Authorization in accordance with G.S. 130A-335 (a2), (a5), and (a6)"

RE: 352 Double Barrel St. – Lillington, NC -Lot #62 – Duncan's Crossing for Smith Douglas Homes (Harnett County PIN# 0539-90-2638 To whom it may concern:

Adams Soil Consulting (ASC) conducted a preliminary soil evaluation on the above referenced parcel to determine the areas of soils which are suitable for subsurface wastewater disposal systems (conventional & LPP). The soil/site evaluation was performed using hand auger borings during moist soil conditions based on the criteria found in the State Subsurface Rules, State Subsurface Rules, 15ANCAC 18E. From this evaluation, ASC is providing the attached 4-bedroom septic design.

The suitable soils found on the subject property were relatively consistent in the initial and repair areas. The area designated for the initial/primary septic system (see attached septic plan) was found to contain soils with greater than 24 inches in depth before a restrictive horizon was encountered.

Please find the attached wastewater soil/site evaluation forms for specific soil properties found in the initial and repair areas as well as assigned soil long term acceptance rate (LTAR). Numerous soil borings were made throughout the property and representative soil profile descriptions for the primary septic field and repair area are provided. A location sketch for profile descriptions is also attached. The initial and primary septic fields were sized based on a flow rate of 480 gallons/day and utilizing Accepted Status. Any unauthorized site disturbance, filling, soil removal, or layout changes may result in the permit being revoked.

The septic installer contractor shall install the primary and repair (if needed) system on contour, see attached site plan for the primary system and repair locations. No underground utilities, water lines, or sprinkler systems shall be

placed into the initial or repair septic areas. Installation must meet all state and local county regulations for septic system installation. The trenches must be installed in the same location as the site plan. If the installation is in question at the time of installation call me (Alex Adams) at 919-414-6761.

This report discusses the location of provisionally suitable soils identified on the property and does not guarantee the future function of any waste water disposal system installed.

If you have any questions regarding the findings on the attached map or in this report, please feel free to contact me anytime.

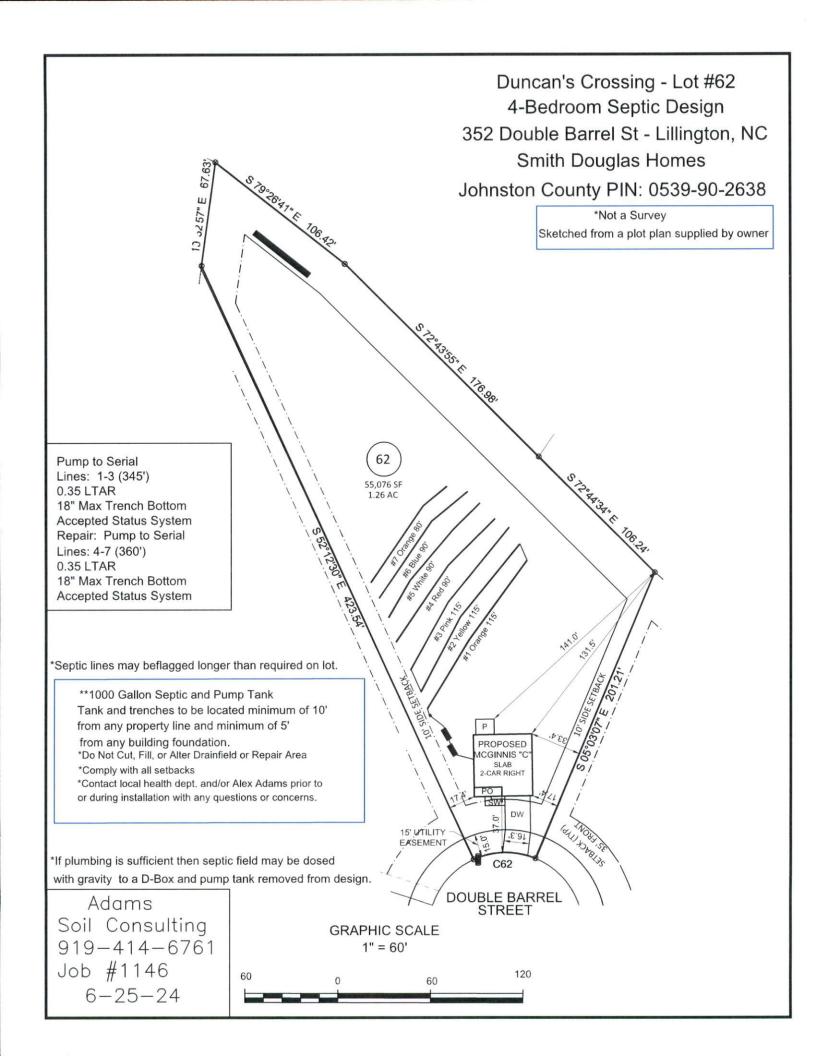
Sincerely,

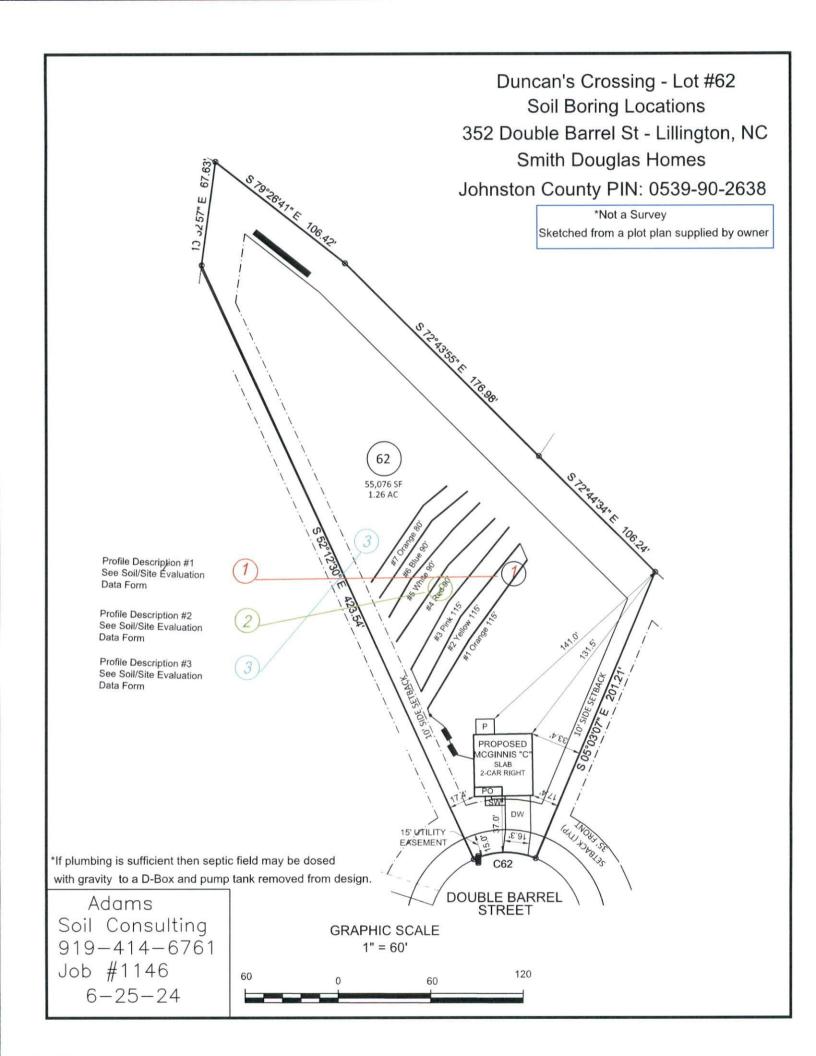
Alex Adams

NC Licensed Soil Scientist #1247 AOWE Certification: 10021E









# SOIL/SITE EVALUATION for ON-SITE WASTEWATER SYSTEM

(Complete all fields in full)

OWNER: Smith Douglas Homes

APPLICATION DATE: 7-9-24

PROPOSED FACILITY: Single Family, 4-bedroom PROPOSED DESIGN FLOW (.1949): 480gpd

PROPERTY SIZE: ~1.26 acres

LOCATION OF SITE: 352 Double Barrel St - Lillington, NC 27546

WATER SUPPLY: Public Water

EVALUATION METHOD: Auger Boring

TYPE OF WASTEWATER: Sewage

P R O F I L	R   O   F   I   .1940   LANDSCAPE   HORIZON		SOIL MORPHOLOGY (.1941)		OTHER PROFILE FACTORS				
E POSITION/ DEPTH (IN.)		.1941 STRUCTURE/ TEXTURE	.1941 CONSISTENCE/ MINERALOGY	.1942 SOIL WETNESS/ COLOR	.1943 SOIL DEPTH	.1956 SAPRO CLASS	.1944 RESTR HORIZ	PROFILE CLASS & LTAR	
	Linear	0-5	GR/LS	FR/SEXP/NS	N/A	28"	N/A	N/A	PS/0.35
	Slope/3%	5-28	SBK/CL	FI/SEXP/SS					
1									
_									
	Linear Slope/3%	0-10	GR/LS	FR/SEXP/NS	N/A	32	N/A	N/A	PS/0.35
1		10-32	SBK/SCL	FI/SEXP/SS					
2									
H	Linear	0-5	GR/LS	FR/SEXP/NS	N/A	30"	N/A	N/A	PS/0.35
	Slope/3%	5-30	SBK/CL	FI/SEXP/SS					
3									
4									

DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM	OTHER FACTORS (.1946):
Available Space (.1945)	>5,000 ft <sup>2</sup>	>5,000 ft <sup>2</sup>	SITE CLASSIFICATION (.1948): PS
System Type(s)	Type III (g)	Type III (g)	EVALUATED BY:A. Adams OTHER(S) PRESENT:
Site LTAR	0.35	0.35	

COMMENTS:

