Permit/File #: _	



ROY COOPER · Governor

KODY H. KINSLEY · Secretary

MARK BENTON • Chief Deputy Secretary for Health

SUSAN KANSAGRA • Assistant Secretary for Public Health

Division of Public Health

Submittal Includes:	(a2) Improvement Permit	(a2) Construction Authorization	Fee \$	

IMPROVEMENT PERMIT FOR G.S. 130A-335(a2)
County: Harnett
PIN/Lot Identifier: 0519-69-7153.000
Issued To: LGI Homes NC LLC
Property Location: 92 Camp Rock Road, Lillington, NC
Subdivision (if applicable) Boone Trail Village Phase 1 Lot #: 56 Block: Section:
LSS Report Provided: Yes No No
If yes, name and license number of LSS: Scott Mitchell - 1237
New ■ Expansion □ System Relocation □ Change of Use □
Facility Type: Single-Family Dwelling Unit
Number of bedrooms: 4 Number of Occupants: 8 or less Other:
Design Wastewater Strength: Domestic High Strength Industrial Process Wastewater
Proposed Design Daily Flow: 480 GPD Proposed LTAR (Initial): 0.35 Proposed LTAR (Repair): 0.35
Proposed Wastewater System Type*: IIb (Initial) Pump Required: ☐ Yes ■ No ☐ May be required
Proposed Wastewater System Type*: IIb (Repair) Pump Required: Yes No May be required
*Please include system classification for proposed wastewater system types in accordance with Rule .1301 Table XXXII
Effluent Standard: DSE HSE NSF/ANSI 40 TS-I TS-II RCW
Saprolite System (Initial): ☐ Yes ■ No Saprolite System (Repair): ☐ Yes ■ No
Fill System (Initial): Yes 🔳 No If yes, specify: New 🔲 Existing (when adding more than 6 inches of fill to system area provide a fill plan)
Fill System (Repair): Yes No If yes, specify: New Existing (when adding more than 6 inches of fill to system area provide a fill plan)
Usable Depth to LC (Initial)x: 34" Usable Depth to LC (Repair)x: 36" * Limiting Condition
Max. Trench Depth (Initial)*: 20 inches Max. Trench Depth (Repair)*: 22 inches *Measured on the downhill side of the trench
Artificial Drainage Required: Yes No If yes, please specify details:
Type of Water Supply: Private well Public well Shared well Municipal Supply Spring Other:
Drainfield location meets requirements of Rule .0508: Yes 🔳 No 🗌 Drainfield location meets requirements of Rule .0601: Yes 🔳 No 🗌
Permit valid for: Five years [site plan submitted pursuant to GS 130A-334(13a)] No expiration [plat submitted pursuant to GS 130A-334(7a)]
Permit conditions: Permit is subject to revocation if the Site Plan or Platonasges or 1 the Intended use changes, including bedroom count. No cutting, grading, alterations, or utilities allowed in septic area. Maintain all required setbacks.
Licensed Soil Scientist Print Name: Scott MillCrieil
Licensed Soil Scientist Signature: Date: February 14, 2025
The LSS evaluation is being submitted bur want to and meets the requirements of G.S. 130A-335(a2). *See attached RESketches

NCDHHS/DPH/EHS/OSWP



Permit/File #:

This Section for Local Health Department Use Only

	Initial submittal received:		by	
		Date	Initials	
G.S. 130A-335(a3) states the followir	g:			
When an applicant for an Improvement Permi department, the common form developed by twithin five business days of receiving the appl. Permit includes all of the required components in the shall notify the applicant of the components in department to cure the deficiencies in the Implies complete within five business days after the act within any period set out in this subsection common form for use as the Improvement Per	he Department, and a soil evaluatio cation, conduct a completeness revi s. If the local health department deto eeded to complete the Improvement rovement Permit. The local health d local health department receives th , the applicant may treat the failure	on pursuant to subsectio iew of the submittal. A a ermines that the Improv t Permit. The applicant r lepartment shall make a ee additional information	n (a2) of this section, the loca letermination of completeness rement Permit is incomplete, t may submit additional informa I final determination as to who In from the applicant. If the loc	I health department shall, s means that the Improvement the local health department ation to the local health ether the Improvement Permit al health department fails to
The review for completeness of this Permit is determined to be:	mprovement Permit was cor	nducted in accorda	nce with G.S. 130A-335(a3). This Improvement
☐ Incomplete (If box is checked, in	formation in this section is $r\epsilon$	equired.)		
The following items are missing:				
Copies of this were sent to the LSS a		Date		
State Authorized Agent:			Date:	<u> </u>
☐ Complete	- 20/A		W 78	
State Authorized Agent:			Date:	£
This Improvement Permit is issued pattached here. The issuance of this for checking with appropriate gover plat, or the intended use changes. The permit is subject to compliance with The Department, the Department's any liabilities, duties, and responsibe valuations, submittals, or actions for the second seco	permit in no way guarantees ning bodies in meeting their he Improvement Permit sha the provisions of 15A NCAC authorized agents, and the I lilities imposed by statute or	s the issuance of or requirements. <u>Thi</u> all not be affected I C 18E and to the co local health depart in common law fro	ther permits. The perm is permit is subject to re by a change in ownersh nditions of this permit. ments shall be discharg om any claim arising ou	it holder is responsible evocation if the site plan, ip of the site. This ed and released from it of or attributed to
Improvement Permit Expiration Dat	e:			

See attached site sketch



Permit/File #:

Re-submittal of Improvement Permit

	LHD USE ONLY: This IP resubmittal received:	Date	by	
Γhe following i	items are being resubmitted pursuant to G.S. 130A-335((a3) for issuance of	f the Improvement Permit:	- -
	- SU SU		No.	
s accurate and	hereby attest that Scientist (Print Name) complete to the best of my knowledge and that the prilaws, regulations, rules, and ordinances.		quired to be included witl ent Permit meets all appl	
Signatur	re of Licensed Soil Scientist		Date	
LHD Follow-u	The section below is for Local Health Department use of up Completeness Review of Improvement Pe		ems noted as missing above.	
	completeness of this Improvement Permit re-submitta Permit is determined to be:	l was conducted in	accordance with G.S. 130)A-335(a3). This
•	e (If box is checked, information in this section is requir tems are missing:	red.)		
Copies of this w	vere sent to the LSS and the Applicant on			
State Authorize	Date ed Agent:		Date:	
☐ Complete				
State Authorize	ed Agent:		Date:	



Harnett County GIS

PID: 130519 0103 61 **PIN:** 0519-69-7153.000

Account Number: 1500028388

Owner: LGI HOMES NC LLC

Mailing Address: 1450 LAKE ROBBINS DR STE 430 THE WOODLANDS, TX 77380-3294

Physical Address: 92 CAMP ROCK RD LILLINGTON, NC 27546 ac

Description: LOT#56 BOONE TRAIL VILLAGE PH1 MAP#2024-600

Surveyed/Deeded Acreage: 0.63
Calculated Acreage: 0.63

Deed Date:

Deed Book/Page: 4144 - 0878

Plat(Survey) Book/Page: 2024 - 600

Last Sale: 2022 - 4
Sale Price: \$2220000
Qualified Code: A
Vacant or Improved: V
Transfer of Split: T

Actual Year Built:
Heated Area: SqFt
Building Count: 0

Parcel Outbuilding Value: \$0

Parcel Land Value: 26900 Market Value: \$26900 Deferred Value: \$0

Building Value: \$0

Total Assessed Value: \$26900

Zoning: RA-30 - 0.63 acres (100.0%)

Zoning Jurisdiction: Harnett County

Wetlands: No

FEMA Flood: Minimal Flood Risk

Within 1mi of Agriculture District: Yes

Elementary School: Boone Trail Elementary

Middle School: Western Harnett Middle

High School: Western Harnett High

Fire Department: Boone Trail

EMS Department: Medic 12, D12 EMS

Law Enforcement: Harnett County Sheriff

Voter Precinct: Boone Trail

County Commissioner : Duncan Edward Jaggers

School Board Member: John Hairr



Mitchell Environmental, P.A.

I hereby authorize representatives of Mitchell Environmental, P.A., to provide subsurface wastewater evaluations and septic system designs on my behalf, for the issuance of an IP and CA, for the property identified below.

For Improvement Permit (IP) issuance:

"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)."

For Construction Authorization (CA) issuance:

"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)."

The LSS evaluation attached to this application was used to produce and design a subsurface wastewater septic system for permitting to obtain an IP and CA in accordance with G.S. 130A-335(a2), (a3), (a5), and (a6).

41/63/85/92/70 Comp Rock Rd.
41/63/85/92/70 Comp Rock Rd. Subject Property (Address, PIN, etc.): 46 Comp Rock Rd. Lillington NC 27546
Property Owner Name (Print): LGI Homes
Owner Representative (Print): Keith Sears
Owner Representative (Sign):
Date: 2/10/25

1501 Lakestone Village Lane, Suite 205 Fuguay-Varina, North Carolina 27526 919-669-0329



EMARTY



CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY) 1/16/2025

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the contificate holder is an ADDITIONAL INSURED, the notice/lies) must have ADDITIONAL INSURED provisions or be endorsed

lf	SUE	BROGATION IS WAIVED, subjectificate does not confer rights to	ct to	the	terms and conditions of	the po	licy, certain	policies may				
PROD	DUCE	R				CONTACT Select Business Unit						
	Alera Group I131 Parklake Avenue, Suite 225						PHONE (A/C, No, Ext): (919) 469-2473 FAX (A/C, No): (919) 467-					
Raleigh, NC 27612						E-MAIL ADDRESS: em@trisure.com						
							INS	SURER(S) AFFOR	RDING COVERAGE		NAIC #	
						INSURE	R A : Westch	ester Surp	lus Lines		10172	
INSU	RED					INSURE	RB: Sirius A	America Ins	urance Company		38776	
		Mitchell Environmental PA				INSURE	ER C:					
	Scott Mitchell 5601 Maggie Run Lane					INSURER D:						
		Fuquay Varina, NC 27526				INSURER E:						
						INSUR	RF:					
CO	/ER	AGES CER	TIFIC	CATE	NUMBER:				REVISION NUMBER:			
IN Ce	DICA ERTII	S TO CERTIFY THAT THE POLICIENTED. NOTWITHSTANDING ANY REFICATE MAY BE ISSUED OR MAY ISIONS AND CONDITIONS OF SUCH	PER	REME TAIN,	ENT, TERM OR CONDITION THE INSURANCE AFFORI	N OF A	ANY CONTRA Y THE POLIC	CT OR OTHER IES DESCRIB	R DOCUMENT WITH RESP	ECT TO	WHICH THIS	
NSR LTR		TYPE OF INSURANCE	ADDL INSD	SUBR	POLICY NUMBER		POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMI	гѕ		
Α	X	COMMERCIAL GENERAL LIABILITY					,	,	EACH OCCURRENCE	\$	1,000,000	
		CLAIMS-MADE X OCCUR			G28210486009		1/27/2025	1/27/2026	DAMAGE TO RENTED PREMISES (Ea occurrence)	\$	50,000	
									MED EXP (Any one person)	\$	10,000	
									PERSONAL & ADV INJURY	\$	1,000,000	
	GEN	I'L AGGREGATE LIMIT APPLIES PER:							GENERAL AGGREGATE	\$	2,000,000	
- 1		V PRO-	1	1							2 000 000	

PRODUCTS - COMP/OP AGG | \$ POLICY X JECT LOC OTHER: COMBINED SINGLE LIMIT (Ea accident) **AUTOMOBILE LIABILITY** ANY AUTO BODILY INJURY (Per person) OWNED AUTOS ONLY SCHEDULED AUTOS BODILY INJURY (Per accident)
PROPERTY DAMAGE
(Per accident) HIRED AUTOS ONLY NON-OWNED AUTOS ONLY 1,000,000 X OCCUR **UMBRELLA LIAB EACH OCCURRENCE** 1,000,000 G46616182008 1/27/2025 1/27/2026 Χ **EXCESS LIAB CLAIMS-MADE** AGGREGATE DED RETENTION \$ OTH-ER WORKERS COMPENSATION AND EMPLOYERS' LIABILITY PER STATUTE 1,000,000 WC PC 602055-000 2/7/2025 2/7/2026 ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) E.L. EACH ACCIDENT N/A 1,000,000 E.L. DISEASE - EA EMPLOYEE \$ If yes, describe under DESCRIPTION OF OPERATIONS below 1,000,000 E.L. DISEASE - POLICY LIMIT G28210486009 1/27/2025 1/27/2026 1,000,000 Professional Liabili Limit G28210486009 1/27/2025 1/27/2026 Limit 1,000,000 Professional Liabili

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required) Operations of the Named Insured covered by the above referenced policies.

CERTIFICATE HOLDER	CANCELLATION

LGI Homes - NC, LLC 1450 Lake Robbins Drive Suite 430 The Woodlands, TX 77380 SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.

AUTHORIZED REPRESENTATIVE

Mitchell Environmental, P.A.

February 14, 2025

Mr. Robert Putze LGI Homes - NC, LLC 1450 Lake Robbins Drive, Suite 430 The Woodlands, Texas 77380

Re: On-Site Sewage Disposal Site and Soils Evaluation Report for: Boone Trail Village Subdivision – Lot 56

92 Camp Rock Road, Lillington, Harnett County

Mr. Putze:

At your request, we have completed a site evaluation for use of on-site sewage disposal systems at Lot 56 of Boone Trail Village Subdivision located at 92 Camp Rock Road in Lillington, Harnett County. The site evaluation was completed using backhoe pits on October 23, 2024, under moist soil conditions, based on the criteria found in the State Subsurface Rules, 15A NCAC 18E, "Wastewater Treatment and Dispersal Systems". This report was prepared pursuant to and meets the requirements of G.S. 130A-335(a2).

Site Evaluation for Use of On-Site Sewage Disposal Systems:

The evaluation included all usable areas of the property as limited by state and local laws, rules, and regulations. The purpose of the evaluation was to determine the suitability of the site for onsite waste disposal systems per applicable laws, rules, and regulations. "The LSS evaluation is being submitted pursuant to and meets the requirements of G.S. 130A-335(a2)."

A soil/site evaluation for use of on-site waste disposal systems on any site in North Carolina must include an evaluation of each of the following criteria: 1) topography and landscape position, 2) soil morphology, 3) soil wetness, 4) soil depth, 5) restrictive horizons and 6) available space. Upon field evaluation of the site, the majority of the lot was confirmed to contain sufficient suitable depth for on-site waste disposal systems.

Most septic systems in North Carolina that include a sub-surface waste disposal element require nitrification trenches to distribute effluent for final treatment. Any nitrification trench that has an associated width (conventional, LPP, LDP, etc.) must be designed to accommodate slope corrections (typically 1 to 4 inches). Slope corrections are based on trench width and cross slope to ensure the minimum separation distance between the trench bottom and an unsuitable soil condition is maintained over the entire trench width. Sloping sites are required to have greater suitable soil depth to accommodate slope correction as opposed to flat sites that require no slope correction. Please note that all proposed lots that utilize sub-surface nitrification fields must have sufficient area for the initial septic system as well as a full repair system. However, the initial and repair systems are not required to be the same type of system, nor are they required to be contiguous. For example, a lot may have a conventional, gravity system installed as the initial septic system and specify an LPP or subsurface drip system for its repair, several hundred feet away from the house or other structure being served.

The number of bedrooms or wastewater design flowrate that any lot will accommodate is entirely dependent upon the usable area of the lot and the long-term acceptance rate (LTAR; LTAR is the

effluent application rate for a septic system. For conventional systems, the LTAR indicates the number of gallons that can be applied to each square foot of the trench bottom per day. For an LPP or subsurface drip system, the LTAR indicates the number of gallons that can be applied to each square foot of the nitrification field per day. An LTAR of 0.2 gallons per day per ft² (gpd/ft²) will require a nitrification field that is twice as large as a field that has an LTAR of 0.4 gpd/ft².). Assigned LTARs will affect the number of bedrooms or wastewater design flowrate lots will accommodate as illustrated above. LTARs can vary from one location to another on a property. Our observations indicate that the majority of the lot contains sufficient suitable soil depth to accommodate subsurface wastewater systems with an LTAR of 0.35 gpd/ft². Observed suitable soil depths on this site range from 34 inches to greater than 46 inches, with LTAR controlling soil textures ranging from sandy clay loam to clay loam.

Topography on this lot can be generally characterized as a gentle side slope that generally sheds to the south. Based on observed site and soil characteristics, in combination with the proposed plot plan, it is my professional opinion that adequate available space exists on this lot for properly designed septic system drainfields (*initial and repair*) sufficient for one, four-bedroom home.

This site evaluation is based upon the conditions of the site at the time of the evaluation. Any alteration of the site, including compaction, clearing, grading, timbering, etc., could negatively affect the suitability for on-site septic systems. Great care should be exercised during site preparation to protect areas that are to be utilized for septic system nitrification fields. No vehicular or construction traffic should be allowed on these areas. Additionally, no sedimentation and erosion control devices or stormwater collection, treatment, diversion, or dispersal devices should be allowed on or near these areas.

Thank you for the opportunity to provide you with this wastewater system soil suitability evaluation. Do not hesitate to call me if you have any questions or concerns about this evaluation or if you need any additional information.

Sincerely,



Scott Mitchell, PE, LSS President

Page <u>1</u> of <u>2</u> PROPERTY ID #: 0519-69-7153.000
COUNTY: Harnett

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

OWNER: LGI Homes NC LLC ADDRESS: 1450 Lake Robbins Drive, Suite 430, The Woodlands, TX 77380										
PROPOSED FACILITY: Single-Family Dwelling PROPOSED DESIGN FLOW (.0400): 480 PROPERTY SIZE: 0.63 acres										
	_			92 Camp Rock Roa ☐ Shared Well ☐					ORDED: <u>12/0</u> SETBACK:	
	JATION METH		-		Spring □ Oth PE OF WASTE				SETBACK:_ Strength I	
P R O F I	P R O			PRPHOLOGY				-		
L E #	.0502 LANDSCAPE POSITION/ SLOPE %	HORIZON DEPTH (IN.)	.0503 STRUCTURE/ TEXTURE	.0503 CONSISTENCE/ MINERALOGY	.0504 SOIL WETNESS/ COLOR	.0505 SOIL DEPTH	.0506 SAPRO CLASS	.0507 RESTR HORIZ	.0509 PROFILE CLASS & LTAR*	.0502(d) SLOPE CORRE CTION
	L, 3%	Ap, 0-6	SL, G	VFR, NS, NP, NEXP	10YR 5/2					
		E, 6-34	SL, SBK	VFR, NS, NP, NEXP	2.5Y 6/4					
1		Bt1, 34-45	SCL, SBK	FR, SS, SP, SEXP	10YR 6/6					
		Bt2, 45-46+	SCL, SBK	FR, SS, SP, SEXP	10YR 6/6 2.5YR 4/8; 15%	46+			S, 0.40	2"
	L, 3%	Ap, 0-6	SL, G	VFR, NS, NP, NEXP	10YR 5/2					
	2, 070	E, 6-18	SL, SBK	VFR, NS, NP, NEXP						
2										
_		Bt1, 18-29	SCL, SBK	FR, SS, SP, SEXP	10YR 6/6					
		Bt2, 29-34	SCL, SBK	FR, SS, SP, SEXP	10YR 6/6					
		CB, 34+	SCL, SBK	FR, SS, SP, SEXP	10YR 6/6 2.5YR 4/8; 25%	34			S, 0.35	2"
3					-					
3					-					
A					-					
					-					
DI	ESCRIPTION	INITIAL SYS	TEM REPAIR S	YSTEM						
	le Space (.0508)	Yes	Ye	SITE CLA	SSIFICATION (.	.0509):	Suitable			
System Site LTA		0.35	0.35	EVALUAT OTHER(S)	TED BY: PRESENT:		Scott Mitcl	nell / Adam	Aycock	
	m Trench Depth	20" on Low								
Comme										

NCDHHS/DPH/EHS/OSWP Revised January 2024 Form SSE-24.2

LEGEND

LANDSCAPE POSITION	SOIL GROUP	SOIL TEXTURE	CONVENTIONAL LTAR (gpd/ft²)	SAPROLITE LTAR (gpd/ft²)	LPP LTAR (gpd/ft²)	MINERALOGY/ CONSISTENCE		STRUCTURE
CC (Concave slope)		S (Sand)		0.6 - 0.8		MOIST	WET	SG (Single grain)
CV (Convex Slope)	I	LS (Loamy sand)	0.8 - 1.2	0.5 -0.7	0.4 -0.6	Lo (Loose)	NS (Non-sticky)	M (Massive)
D (Drainage way)	Ш	SL (Sandy loam)	0.6 - 0.8	0.4 -0.6	0.3 - 0.4	VFR (Very friable)	SS (Slightly sticky)	GR (Granular)
FP (Flood plain)		L (Loam)		0.2 - 0.4		FR (Friable)	S (Sticky)	SBK (Subangular blocky)
FS (Foot slope)		SiL (Silt loam)		0.1 - 0.3		FI (Firm)	VS (Very sticky)	ABK (Angular blocky)
H (Head slope)		SCL (Sandy clay loam)		0.05 - 0.15**		VFI (Very firm)	NP (Non-plastic)	PR (Prismatic)
L (Linear Slope)	Ш	CL (Clay loam)	0.3 - 0.6		0.15 - 0.3	EFI (Extremely firm)	SP (Slightly plastic)	PL (Platy)
N (Nose slope)		SiCL (Silty clay loam)					P (Plastic)	
R (Ridge/summit)		Si (Silt)		None			VP (Very plastic)	
S (Shoulder slope)		SC (Sandy clay)				SEXP (Slightly	expansive)	
T (Terrace)	IV	SiC (Silty clay)	0.1 - 0.4		0.05 - 0.2	EXP (Exp	ansive)	
TS (Toe Slope)		C (Clay)						1
	•	O (Organic)	None					

HORIZON DEPTH In inches below natural soil surface DEPTH OF FILL RESTRICTIVE HORIZON In inches from land surface Thickness and depth from land surface

SAPROLITE

S(suitable) or U(unsuitable); Evaluation of saprolite shall be by pits.

Inches from land surface to free water or inches from land surface to soil colors with chroma 2 or less - record Munsell color chip designation SOIL WETNESS

CLASSIFICATIONS (Suitable) or U (Unsuitable)

ATION	v		s (s	unac	Show	r∪(prof	Unsu ile lo	nabie cation	e) ns an	d oth	er sit	e fea	tures	(dim	ensio	ns, re	eferei	nce o	r ben	chma	rk, a	nd N	orth)).			
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Revised January 2024 NCDHHS/DPH/EHS/OSWP

^{*} Adjust LTAR due to depth, consistence, structure, soil wetness, landscape, position, wastewater flow and quality.

**Sandy clay loam saprolite can only be used with advanced pretreatment in accordance with 15A NCAC 18E .1200.

