Permit/File #:	

	DEPARTMENT OF	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
	IMPROVEM	ENT PERMIT FOR G.S. 130A-335(a2)
County: Harnett		
PIN/Lot Identifier: 0519	-69-3664 000	
Issued To: LGI Home		
	eepee Drive, Lillingtor	NC NC
		Lot #: 45 Block: Section:
LSS Report Provided: Yes		1027
	umber of LSS: Scott Mitche	
New 🔳		System Relocation Change of Use
		lee
	Number of Occupants: 8 or	
Design Wastewater Streng	th: Domestic	High Strength Industrial Process Wastewater Proposed LTAR (Initial): 0.3 Proposed LTAR (Repair): 0.275
Proposed Design Daily Flor		Proposed LTAR (Initial): 0.5 Proposed LTAR (Repair): 0.275
Proposed Wastewater Sys		(Initial) Pump Required: I Yes No May be required
		(Repair) Pump Required: 🔳 Yes 🗌 No 🗌 May be required
		ater system types in accordance with Rule .1301 Table XXXII
	SE HSE NSF/ANSI 40	
	Yes No Saprolite	
		Existing (when adding more than 6 inches of fill to system area provide a fill plan)
Usable Depth to LC (Initial)		Existing (when adding more than 6 inches of fill to system area provide a fill plan)
		Usable Depth to LC (Repair)*: <u>39</u> "+ <i>* Limiting Condition</i> the Depth (Repair)*: <u>26 inches</u> <i>* Measured on the downhill side of the trench</i>
	d: 🗌 Yes 🔳 No If yes, please	
	Private well Dublic well	
		No Drainfield location meets requirements of Rule .0601: Yes No
Permit valid for: Pive ye	ears [site plan submitted pursuan	t to GS 130A-334(13a)] No expiration [plat submitted pursuant to GS 130A-334(7a)]
Permit conditions: Permit is subject to revo No cutting, grading, alte Maintain all required se	radons, or admites allowed in	SOIL spender, or in the interview use shanges, including bedroom count. Source area CAN CAN CAN CAN CAN CAN CAN CAN
Licensed Soil Scientist Print	Name Scott Mitchell	
Licensed Soil Scientist Signa		Date: April 10, 2025
and the second		
The	LSS evaluation is being submitte	opersuant to and meets the requirements of G \$ 1304.225/221
The	LSS evaluation is being submitte *Se	opursuant to and meets the requirements of G.S. 130A-335(a2).

Permit/File #:



This Section for Local Health Department Use Only

Initial submittal received: Date

Initials

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	1212	
	Date		
State Authorized Agent:		Date:	-
Complete		NO SA	
State Authorized Agent:		Date:	-

This Improvement Permit is issued pursuant to G.S. 130A-335 (a2) and (a3) using the signed and sealed LSS/LG evaluation(s) attached here. The issuance of this permit in no way guarantees the issuance of other permits. The permit holder is responsible for checking with appropriate governing bodies in meeting their requirements. This permit is subject to revocation if the site plan, plat, or the intended use changes. The Improvement Permit shall not be affected by a change in ownership of the site. This permit is subject to compliance with the provisions of 15A NCAC 18E and to the conditions of this permit.

The Department, the Department's authorized agents, and the local health departments shall be discharged and released from any liabilities, duties, and responsibilities imposed by statute or in common law from any claim arising out of or attributed to evaluations, submittals, or actions from a licensed soil scientist or licensed geologist pursuant to GS 130A-335(a2).

Improvement Permit Expiration Date:

See attached site sketch



Permit/File #: _____

Re-submittal of Improvement Permit

LHD USE ONLY: This IP resubmittal received:		by	
	Date	Initials	

The following items are being resubmitted pursuant to G.S. 130A-335(a3) for issuance of the Improvement Permit:

I, _______hereby attest that the information required to be included with this re-submittal Licensed Soil Scientist (Print Name) is accurate and complete to the best of my knowledge and that the proposed Improvement Permit meets all applicable federal, State, and local laws, regulations, rules, and ordinances.

Signature of Licensed Soil Scientist

Date

The section below is for Local Health Department use after submittal of items noted as missing above.

LHD Follow-up Completeness Review of Improvement Permit

The review for completeness of this Improvement Permit re-submittal was conducted in accordance with G.S. 130A-335(a3). This Improvement Permit is determined to be:

Date

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: _____

Complete

State Authorized Agent: _____

Date: _____

Date: _____



PID: 130519 0103 50
PIN: 0519-69-3664.000
Account Number: 1500028388
Owner: LGI HOMES NC LLC
Mailing Address: 1450 LAKE ROBBINS DR STE 430 THE WOODLANDS, TX 77380-3294
Physical Address: 20 TEEPEE DR LILLINGTON, NC 27546 ac
Description: LOT#45 BOONE TRAIL VILLAGE PH1 MAP#2024-600
Surveyed/Deeded Acreage: 0.68
Calculated Acreage: 0.68
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: ⊺
Actual Year Built:
Heated Area : SqFt

Building Count : 0

Harnett County GIS

Building Value: \$0 Parcel Outbuilding Value: \$0 Parcel Land Value: 27850 Market Value: \$27850 Deferred Value: \$0 Total Assessed Value: \$27850 Zoning: RA-30 - 0.68 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).

Lot 43 (64 Tecpce Dr.) Lot 44 (44 Tecpce Dr.) Boone TRAIL Subject Property (Address, PIN, etc.): Lot 45 (20 Tecpce Dr.) Village
Property Owner Name (<i>Print</i>): <u>LGI Homes</u>
Owner Representative (Print): Keith Sears
Owner Representative (Sign):

Date: 4/11/25

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



CERTIFICATE OF LIABILITY INSURANCE

EMARIY
DATE (MM/DD/YYYY)

MITCENV-01

								_	1/16/2025	
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	DUCE		•	0011		CONTACT Select E		nit		
ler	a Gi	Group				PHONE (A/C, No, Ext): (919)			(919) 467-4987	7
		arklake Avenue, Suite 225 n, NC 27612				E-MAIL ADDRESS: em@tris	sure.com	(A/C, NO):	(313) 401 4301	
and	''g'''	1, 10 27012						RDING COVERAGE	NAIC	ш
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	RED	<u>, </u>						surance Company	38776	
150	KED	Mitchell Environmental PA					America ins	surance Company	30770	
		Scott Mitchell				INSURER C :				
		5601 Maggie Run Lane				INSURER D :				
		Fuquay Varina, NC 27526				INSURER E :				
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CERTIFICATE HOLDER	CANCELLATION
LGI Homes – NC, LLC 1450 Lake Robbins Drive Suite 430	SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.
The Woodlands, TX 77380	AUTHORIZED REPRESENTATIVE

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Mitchell Environmental, P.A.

April 10, 2025

Mr. Robert Putze LGI Homes - NC, LLC 5511 Capital Center Drive, Suite 550 Raleigh, North Carolina 27606

Re: On-Site Sewage Disposal Site and Soils Evaluation Report for: Boone Trail Village Subdivision – Lot 45 20 Teepee Drive, Lillington, Harnett County

Mr. Putze:

At your request, we have completed a site evaluation for use of on-site sewage disposal systems at Lot 45 of Boone Trail Village Subdivision located at 20 Teepee Drive in Lillington, Harnett County. The site evaluation was completed using hand augers on February 25, 2025, 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*

1501 Lakestone Village Lane, Suite 205 Fuquay-Varina, North Carolina 27526 919-669-0329 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 <u>trench bottom</u> 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 <u>nitrification field</u> 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 range of 0.275 to 0.30 gpd/ft². Observed suitable soil depths on this site are greater than 39 inches, with LTAR controlling soil textures ranging from clay loam to clay.

Topography on this lot can be generally characterized as a gentle side slope that generally sheds to the north. 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

SOIL/SITE EVALUATION for ON-SITE WASTEWATER SYSTEM

(Complete all fields in full) DWNER: LGI Homes NC LLC DDFECS 4450 + D + D + D + D + D + D + D + D + D +												
	ADDRESS: <u>1450 Lake Robbins Drive, Suite 430, The Woodlands, TX 77380</u> PROPOSED FACILITY: Single-Family Dwelling PROPOSED DESIGN FLOW (.0400): 480 PROPERTY SIZE: 0.68 acres											
				20 Teepee Drive, Lill		480			CRDED: 12/0			
	-		v	□ Shared Well □		er			SETBACK:			
EVALU	JATION METH	DD: X Auge	r Boring 🗌 Pit	□ Cut TY	PE OF WASTE	WATER:	X Domest	ic 🗌 High	Strength 🗌 I	PWW		
P R O F I	R O F SOIL MORPHOLOGY OTHER PROFILE FACTORS											
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, 2%	Ap, 0-6	SL, G	VFR, NS, NP, NEXP	10YR 5/2							
		E, 6-29	SL, SBK	VFR, NS, NP, NEXP	2.5Y 6/4							
1		Bt1, 29-34	SCL, SBK	FR, SS, SP, SEXP	10YR 6/6							
		Bt2, 34-40+	CL, SBK	FR, SS, SP, SEXP	10YR 6/4 2.5YR 4/8; 15%	40+			S, 0.30	1"		
	L, 2%	Ap, 0-6	SL, G	VFR, NS, NP, NEXP	10YR 5/2							
		E, 6-18	SL, SBK	VFR, NS, NP, NEXP	2.5Y 6/4							
2		Bt1, 18-34	CL, SBK	FR, SS, SP, SEXP	10YR 6/6							
		Bt2, 34-39+	CL, SBK	FR, SS, SP, SEXP	10YR 6/4 2.5YR 4/8; 15%	39+			S, 0.30	1"		
	L, 2%	Ap, 0-6	SL, G	VFR, NS, NP, NEXP	10YR 5/2							
		E, 6-22	SL, SBK	VFR, NS, NP, NEXP	2.5Y 6/4							
3		Bt1, 22-34	CL, SBK	FR, SS, SP, SEXP	10YR 6/6							
		Bt2, 34-42+	C, SBK	FR, SS, SP, SEXP	10YR 6/6 2.5YR 4/8; 15%	42+			S, 0.275	1"		
	L, 2%	Ap, 0-6	SL, G	VFR, NS, NP, NEXP	10YR 5/2							
		E, 6-32	SL, SBK	VFR, NS, NP, NEXP	2.5Y 6/4							
4		Bt, 32-40+	CL, SBK	FR, SS, SP, SEXP	10YR 6/6	40+			S, 0.30	1"		

DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM		
Available Space (.0508)	Yes	Yes	SITE CLASSIFICATION (.0509):	Suitable
System Type(s)	IIIb	IIIbe	EVALUATED BY:	Scott Mitchell / Adam Aycock
Site LTAR	0.30	0.275	OTHER(S) PRESENT:	
Maximum Trench Depth	24" on Low Side	26" on Low Side		
Comments:				

LEGEND

LANDSCAPE POSITION	SOIL GROUP	SOIL TEXTURE	CONVENTIONAL LTAR (gpd/ft ²)	SAPROLITE LTAR (gpd/ft ²)	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)	11	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)	0.0 0.0	0.2 - 0.4		FR (Friable)	S (Sticky)	SBK (Subangular blocky)
FS (Foot slope)		SiL (Silt loam)		0.1 - 0.3		Fl (Firm)	VS (Very sticky)	ABK (Angular blocky)
H (Head slope)		SCL (Sandy clay loam)		0.05 - 0.15**	0.15 - 0.3	VFI (Very firm)	NP (Non-plastic)	PR (Prismatic)
L (Linear Slope)	ш	CL (Clay loam)	0.3 - 0.6			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)						-
		O (Organic)	None					

* 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.

In inches below natural soil surface

HORIZON DEPTH DEPTH OF FILL RESTRICTIVE HORIZON SAPROLITE SOIL WETNESS CLASSIFICATION

Thickness and depth from land surface

In inches from land surface

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 S (Suitable) or U (Unsuitable) Show profile locations and other site features (dimensions, reference or benchmark, and North).

