

Central Carolina Soil Consulting, PLLC

1900 South Main Street, Suite 110
Wake Forest, NC 27587
919-569-6704

Acknowledgment of Subsurface wastewater evaluation and septic design by Central Carolina Soil Consulting, PLLC. for Honeycutt Hills S/D, Lot 47, for issuance of an IP and CA.

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 G.S. 130A-335(a2), (a3), (a5) and (a6).

Owner: DAB Homes

Owner's representative: KJB

Date: 6.2.23

IMPROVEMENT PERMIT FOR G.S. 130A-335(a2)/SL2022-11

PIN/Lot Identifier: N/A

Issued To: DRB Homes

Property Location: Honeycutt Hills Subdivision, Lot 47

Subdivision: Honeycutt Hills Subdivision Lot #: 47 Block: _____ Section: _____

LSS Report Provided: Yes No

If yes, name and license number of LSS: Jason Hall, NC LSS #1248

New Repair Expansion System Relocation

Proposed Structure: 4-Bedroom, Single Family

Proposed Wastewater System Type: Gravity to D-Box, IIIG (Initial) Pressure Manifold, IIIB (Repair)

Fill System: Yes No If yes, specify: New Existing (when adding more than 6 inches of fill to system area please provide a fill plan)

Proposed Design Daily Flow: 480 GPD Proposed LTAR (Initial): 0.4 Proposed LTAR (Repair): 0.4

Design Wastewater Strength: domestic high strength industrial process

Number of bedrooms: 4 Number of Occupants: ≤8 Other: _____

Pump Required: Yes No May be required based upon final location and elevations of facilities

Artificial Drainage Required: Yes No If yes, please specify details: _____

Type of Water Supply: Private well Public well Municipal Supply Spring Other: _____

Drainfield location meets requirements of Rule .1945: Yes No

Drainfield location meets requirements of Rule .1950: 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)]

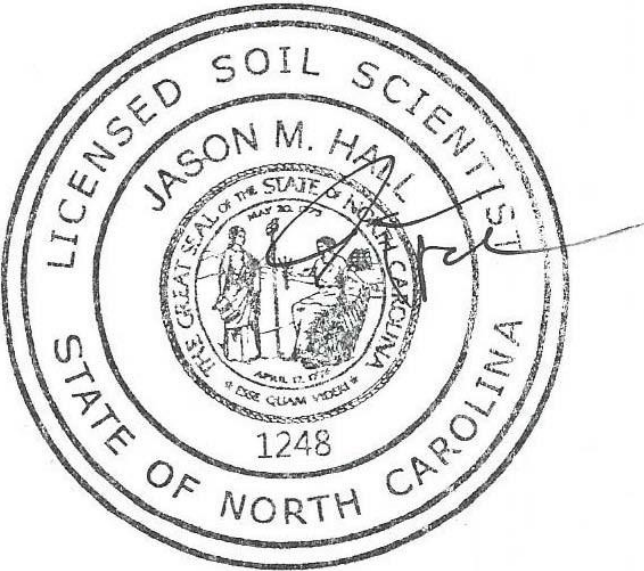
Permit conditions:

Licensed Soil Scientist Print Name: Jason Hall

Licensed Soil Scientist Signature: *Jason Hall* Date: 05/31/2023

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

See attached site sketch



This Section for Local Health Department Use Only

Initial submittal received: _____ by _____
Date Initials

Permit Number: _____

G.S. 130A-335(a4) states the following: *'If a local health department fails to act on an application for an improvement permit submitted pursuant to subsection (a3) of the section within 10 business days of receipt of a complete application, the local health department shall issue the improvement permit.'*

In accordance with G.S. 130A-335(a3) the improvement permit application is:

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 Owner on _____
Date

State Authorized Agent: _____ Date: _____

Denied (See attached report.)

Copies of this were sent to the LSS and the Owner on _____
Date

State Authorized Agent: _____ Date: _____

Complete

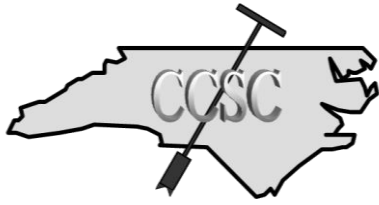
State Authorized Agent: _____ Date of Issuance: _____

This Improvement Permit is issued pursuant to G.S. 130A-335 (a2), (a3), and (a4) using the signed and sealed LSS/LG evaluation(s) attached here. The issuance of this permit by the Health Department 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 site is subject to revocation if the site plan, plat, or the intended use changes, or if information submitted in the application was falsified, inaccurate or misleading. 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 the Laws and Rules for Sewage Treatment and Disposal and to conditions of this permit. The location and identification of all property lines, easements, water lines, and other appropriate utilities shall be the responsibility of the owner.

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



Central Carolina Soil Consulting, PLLC

1900 South Main Street, Suite 110

Wake Forest, NC 27587

919-569-6704

May 31, 2023

Job #3806, Lot 47

DRB Homes
Attention: Kerry Buckner
3000 RDU Center Drive, Suite 202
Morrisville, NC 27560

RE: Preliminary soil/site evaluation for single family wastewater approval in Honeycutt Hills Subdivision, lot 47 (4-bedroom) in Harnett County pursuant to and meets the requirements of G.S. 130A-335(a2).”

To Whom it May Concern:

Central Carolina Soil Consulting, PLLC conducted a preliminary soil evaluation on the aforementioned lot to determine the areas of provisionally suitable soils that are suitable for subsurface wastewater disposal systems (conventional, Accepted & Innovative). **“The LSS evaluation is being submitted pursuant to and meets the requirements of G.S. 130A-335(a2).”** The soil/site evaluation was performed using a hand auger in May 2023, under moist soil conditions, based on the criteria found in the State Subsurface Rules, 15ANCAC 18A .1900 “Laws and Rules for Sewage Treatment and Disposal Systems”. From this evaluation, CCSC laid out and located the septic layout and gps’d for site plan drawing purposes. Please note that the lot lines must be clearly marked by your surveyor prior to system installation by your installer to verify all setbacks before digging.

The lot is proposed to have a 4-bedroom system for the house. A septic system field layout was completed based on the house location and property lines surveyed in the field.

The proposed Initial system for the house is a Gravity to D-Box distribution using lines 7-10 totaling 320 feet of accepted product (EZ-Flow). The repair field is a Pressure Manifold distribution using lines 2-6 totaling 315 feet of accepted product (EZ-Flow) with. The septic tank for the house should be minimum 1,000 gallons with risers.

Based on the findings during the field evaluation, the area on the attached map has at least 48 inches (initial) and 48 inches (repair) of provisionally suitable soils for a modified conventional septic system. The assigned LTAR for the site is 0.40 gal/day/ft² with a maximum depth of 30 inches for the initial system installation of the drain lines due to slope correction. The assigned LTAR for the site is 0.40 gal/day/ft² with a maximum depth of 30 inches for the repair system installation of the drain lines due to slope correction.

Septic Installation:

The septic system for the lot should be installed during dry soil conditions (no rain events within 72 hours). The septic system should be installed on contour while maintaining all required setbacks.

Setbacks:

- **Septic and Pump Tanks** (see septic design)
 - 10' minimum from property lines
 - 5' minimum from house
- **Septic Lines** (see septic design)
 - 10' minimum from property lines
 - 5' minimum from house
- **Manifold's and D-Box's** (see septic design)
 - 10' minimum from property lines
- **Supply Lines** (see septic design)
 - 5' minimum from property lines

Grading:

No grading should be completed within the initial and repair septic areas that change the natural grade of the area. There should be no cutting or filling within the septic areas as well. When grading the lot, no cuts of 2' or greater should be within 15' of the septic areas. If a cut is required near the septic area, keep the cut around 6-8 inches in depth.

HOUSE:

- Initial System: Gravity to D-Box, lines 7-10 totaling 320' (see layout)
- Repair System: Pressure Manifold, lines 2-6 totaling 315' (see layout)
- 480 gal/day flow rate (4-bedroom)
- 1,000 gallon septic tank with risers
- 30" maximum trench depth
- 0.4 LTAR
- No grading/filling septic areas
- No cuts >2' within 15' of septic areas
- Keep tanks and drain lines 10' from property lines
- Keep supply line >5' property lines
- Install in dry soil conditions (No rain events within 72 hours)
- Maintain natural contours when clearing the lot

This letter discusses the location of provisionally suitable soils for subsurface wastewater disposal systems and does not guarantee the future function of any wastewater system on sites. Central Carolina Soil Consulting, PLLC is a professional consulting firm specializing in soil delineations and design for on-site wastewater disposal systems.

If you have any questions regarding the findings on the attached map or in this report, please feel free to contact me at any time. Thank you for allowing Central Carolina Soil Consulting to perform this site evaluation for you.

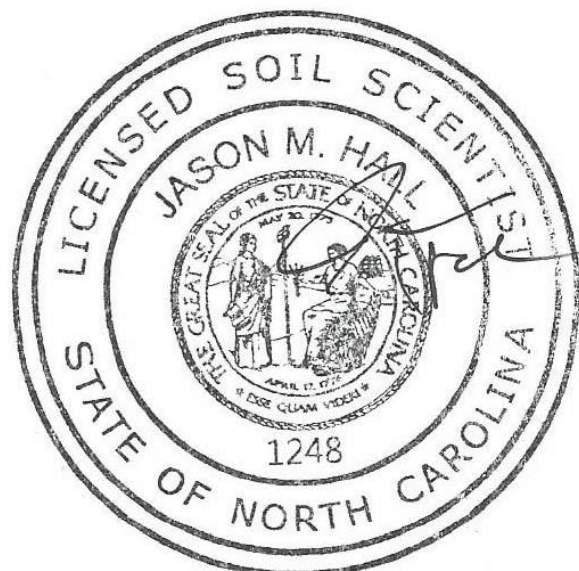
Sincerely,



Jason Hall

NC Licensed Soil Scientist #1248
AOWE certification number 10004E

Encl: Soil Map & septic layout



Sheet:
 Property ID:
 Lot #: 47
 File #:
 AppID:

**CCSC SOIL/SITE EVALUATION
 for ON-SITE WASTEWATER SYSTEM**

Owner:
 Address:
 Proposed Facility: 4-Bedroom Design Flow (.1949) 480 gal/day
 Location of Site: Honeycutt Hills Subdivision
 Water Supply: Public Individual Well Spring Other
 Evaluation Method: Auger Boring Pit Cut
 Type of Wastewater: Sewage Industrial Process Mixed

Applicant:
 Date Evaluated: 5/16/2023
 Property Size:
 Property Recorded: Yes

| P R O F I L E # | .1940 Landscape Position/ Slope% | Horizon Depth (IN.) | SOIL MORPHOLOGY .1941 | | b PROFILE FACTORS | | | | Profile Class & LTAR |
|--------------------------------------|---|---------------------------|--------------------------------|------------------------------------|------------------------------------|------------------------------|-------------------------|-------------------------|----------------------------|
| | | | .1941 Structure/ Texture | .1941 Consistence Mineralogy | .1942 Soil Wetness/ Color | .1943 Soil Depth (IN.) | .1956 Sapro Class | .1944 Restr Horiz | |
| 1 | LS | AE 0-28 | GR SL | VFR NS NP SEXP | | 48 | | | PS |
| | 4% | Bt 28-48 | SBK SCL | FR SS SP SEXP | | | | | 0.40 |
| 2 | LS | AE 0-30 | GR SL | VFR NS NP SEXP | | 48 | | | PS |
| | 4% | Bt 30-48 | SBK SCL | FR SS SP SEXP | | | | | 0.40 |
| 3 | LS | AE 0-26 | GR SL | VFR NS NP SEXP | | 48 | | | PS |
| | 4% | Bt 26-48 | SBK SCL | FR SS SP SEXP | | | | | 0.40 |
| 4 | LS | AE 0-27 | GR SL | VFR NS NP SEXP | | 48 | | | PS |
| | 4% | Bt 27-48 | SBK SCL | FR SS SP SEXP | | | | | 0.40 |

| Description | Initial System | Repair System |
|-------------------------|----------------|---------------|
| Available Space (.1945) | Yes | Yes |
| System Type(s) | III G | III B |
| Site LTAR | 0.40 | 0.40 |

Other Factors (.1946):
 Soil Evaluation By:
 Others Present:
 Site Classification (.1948): Provisionally Suitable
 Site Evaluation By: Michael Seewald
 Others Present:

| <u>Landscape Position</u> | <u>Group</u> | <u>Texture</u> | <u>.1955 LTAR</u> | <u>Structure</u> |
|---------------------------|--------------|-----------------|-------------------|-----------------------|
| R-Ridge | I | S-Sand | 1.2 - 0.8 | SG-Single Grain |
| SS-Shoulder Slope | | LS-Loamy Sand | | M-Massive |
| LS-Linear Slope | | | | CR-Crumb |
| FS-Foot Slope | II | SL-Sandy Loam | 0.8 - 0.6 | GR-Granular |
| NS-Nose Slope | | L-Loam | | SBK-Subangular Blocky |
| HS-Head Slope | | | | ABK-Angular Blocky |
| CC-Concave Slope | III | SI-Silt | 0.6 - 0.3 | PL-Platy |
| CV-Convex Slope | | SICL-Silty Clay | | PR-Prismatic |
| T-Terrace | | Loam | | |
| FP-Flood Plain | | CL-Clay Loam | | |
| | IV | SCL-Sandy Clay | 0.4 - 0.1 | |
| | | Loam | | |
| | | SC-Sandy Clay | | |
| | | SIC-Silty Clay | | |
| | | C-Clay | | |

Consistence

Moist

VFR-Very Friable
 FR-Friable
 FI-Firm
 VFI-Very Firm
 EFI-Extremely Firm

Consistence

Wet

NS-Non-Sticky
 SS-Slightly Sticky
 S-Sticky
 VS-Very Sticky
 NP-Non-Plastic
 SP-Slightly Plastic
 P-Plastic
 VP-Very Plastic

Mineralogy

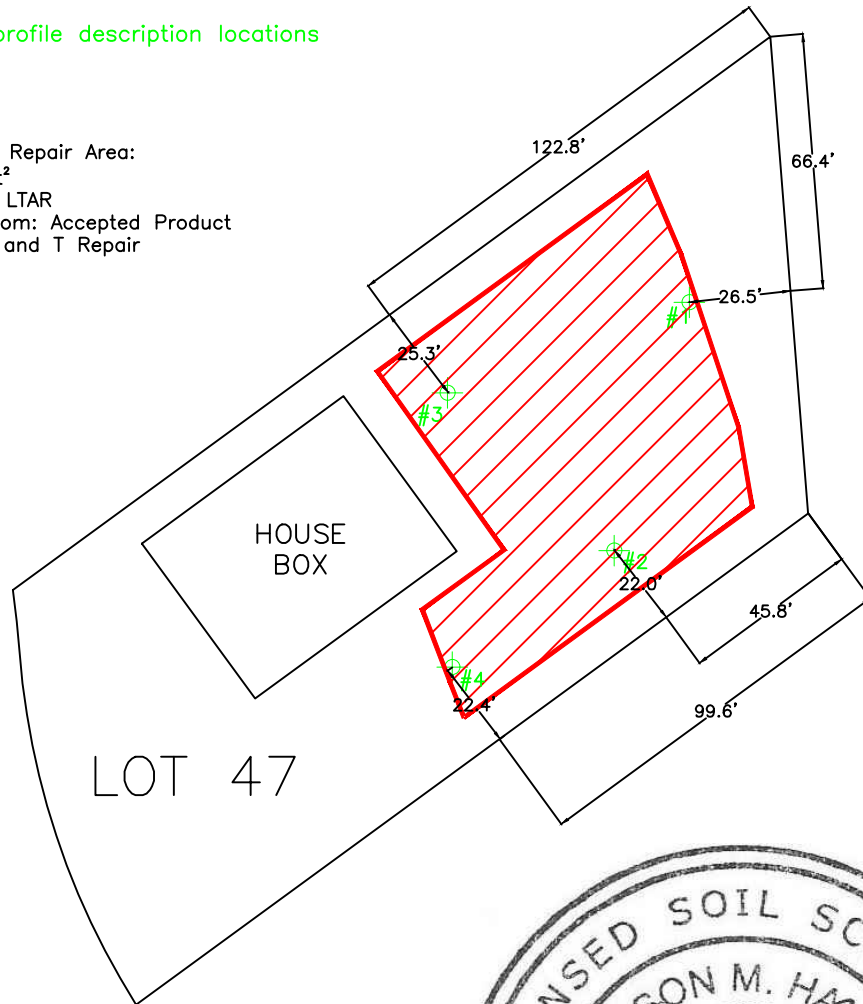
SEXP-Slightly Expansive
 EXP-Expansive

Sketch of Soil Evaluation Locations

⊕ #1 = profile description locations

System and Repair Area:

- ~7,300ft²
- 0.4 soil LTAR
- 4-bedroom: Accepted Product
Primary and T Repair



- *Keep tanks and drain lines 10' from property lines.
- *Not a survey.
- *Not a guarantee of a septic permit.
- *Keep supply lines >5' from property lines.
- *Some lines are flagged longer in the field than lengths indicate.
- *No grading septic area.
- *No adding soil within septic area
- *No rutting-up septic area
- *No cuts of >2' within 15' of septic areas

GRAPHIC SCALE
1" = 50'



Central Carolina Soil Consulting, PLLC
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Phone (919)569-6704 Fax (919)569-6703

Soils Map
Lot 47, Honeycutt Hills Subdivision
Harnett County, North Carolina

| |
|------------------|
| Job#: 3806 |
| Drawn By: MS |
| Date: 05/31/2023 |
| Revision: |