| Permit/File #: _ | <br> |
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**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

| IMPROVEMENT PERMIT FOR G.S. 130A-335(a2)   |
|--|
| County: Harnett  |
| PIN/Lot Identifier: 9691-79-0896.000   |
| Issued To: HHHunt Homes Raleigh-Durham LLC   |
| Property Location: 942 Hollies Pines Road, Broadway, NC  |
| Subdivision (if applicable) Pinedarosa 1 Lot #: 2 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: 6 or less Other:  |
| Design Wastewater Strength: Domestic High Strength Industrial Process Wastewater   |
| Proposed Design Daily Flow: 480 GPD Proposed LTAR (Initial): 0.30 Proposed LTAR (Repair): 0.30   |
| Proposed Wastewater System Type*: IIIf   |
| Proposed Wastewater System Type*: IIIe (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   |
| Saprolite System (Initial): Yes No Saprolite System (Repair): Yes No   |
| Fill System (Initial): Tes In 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) <sup>x</sup> : >52"  Usable Depth to LC (Repair) <sup>x</sup> : >52"  *Limiting Condition   |
| Max. Trench Depth (Initial)*: 30 inches Max. Trench Depth (Repair)*: 34 inches *Measured on the downhill side of the trench  |
| Artificial Drainage Required:  |
| 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(12a)] No expiration [plat submitted pursuant to GS 130A-334(7a)]   |
| Permit conditions:  SOIL SCA   |
| STATE OF THE STATE |
|  |
|  |
| Licensed Soil Scientist Print Name: Scott Mitchell   |

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

Licensed Soil Scientist Signature: \_

Date: March 14, 2024



| Permit/File #: |  |
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### This Section for Local Health Department Use Only

| initial submittal received:  |   | Dy   |  |
|--|---|--|--|
|  | Date  | Initials   |  |
| G.S. 130A-335(a3) states the following:  |   |  |  |
| When an applicant for an Improvement Permit submits to a local health depart department, the common form developed by the Department, and a soil evalua within five business days of receiving the application, conduct a completeness repermit includes all of the required components. If the local health department a shall notify the applicant of the components needed to complete the Improvem department to cure the deficiencies in the Improvement Permit. The local health is complete within five business days after the local health department receives act within any period set out in this subsection, the applicant may treat the fails common form for use as the Improvement Permit. | ntion pursuant to su<br>eview of the submit<br>letermines that the<br>ent Permit. The app<br>h department shall<br>the additional infol | bsection (a2) of this section, the local health departmental. A determination of completeness means that the Improvement Permit is incomplete, the local health of licant may submit additional information to the local make a final determination as to whether the Improvement from the applicant. If the local health department in the local health department. | nent shall,<br>e Improvement<br>department<br>Il health<br>vement Permit<br>ement fails to |
| The review for completeness of this Improvement Permit was on<br>Permit is determined to be:   | conducted in ac   | cordance with G.S. 130A-335(a3). This Im   | provement  |
| ☐ Incomplete (If box is checked, information in this section is  | required.)  |  |  |
| The following items are missing:   |   |  |  |
|  | 1   |  |  |
| Copies of this were sent to the LSS and the Applicant on   | Date  |  |  |
| State Authorized Agent:  |   | Date:  |  |
| ☐ Complete   |   |  |  |
| State Authorized Agent:  | - 1/-18   | Date:  |  |
| This Improvement Permit is issued pursuant to G.S. 130A-335 attached here. The issuance of this permit in no way guarante for checking with appropriate governing bodies in meeting the plat, or the intended use changes. The Improvement Permit's permit is subject to compliance with the provisions of 15A NC. The Department, the Department's authorized agents, and the any liabilities, duties, and responsibilities imposed by statute evaluations, submittals, or actions from a licensed soil scientis  | ees the issuance<br>eir requirement<br>hall not be affe<br>AC 18E and to t<br>e local health d<br>or in common l                        | e of other permits. The permit holder is rest.  Is. This permit is subject to revocation if to cted by a change in ownership of the site the conditions of this permit.  Example 2 in the conditions of this permit.  Example 2 in the conditions of this permit.  Example 3 in the conditions of this permit.   | esponsible<br>he site plan,<br>. This  |
| Improvement Permit Expiration Date:  |   |  |  |
|  |   |  |  |
|  |   |  |  |

\*See attached site sketch\*



| Permit/File #: |
|----------------|
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### **Re-submittal of Improvement Permit**

|                  | LHD USE ONLY: This IP resubmit  | tal received:          |                   | by   |                   |
|------------------|---|------------------------|-------------------|--|-------------------|
|                  |   |                        | Date              | Initials   |                   |
| Γhe following i  | tems are being resubmitted pursuant t   | o G.S. 130A-335(a3)    | for issuance of   | f the Improvement Perm                               | it:               |
|                  |   |                        |                   |  |                   |
|                  | _   | 2000000                | ALTERNA           |  |                   |
|                  | Al a  | HE SIA!                | F                 | Dr.  |                   |
| s accurate and   | hescientist (Print Name) complete to the best of my knowledge laws, regulations, rules, and ordinance | ge and that the propo  |                   | equired to be included w<br>nent Permit meets all ap |                   |
| Signatur         | re of Licensed Soil Scientist   |                        |                   | Date   |                   |
|                  | The section below is for Local Health   | h Department use after | r submittal of it | ems noted as missing abov                            | <br>e.            |
| LHD Follow-u     | up Completeness Review of Im  | provement Perm         | it                |  |                   |
|                  | completeness of this Improvement Perentities determined to be:  | ermit re-submittal wa  | as conducted i    | n accordance with G.S. 1                             | 30A-335(a3). This |
| ☐ Incomplete     | e (If box is checked, information in thi  | s section is required. | )                 |  |                   |
|                  | ems are missing:  |                        |                   |  |                   |
|                  |   |                        |                   |  |                   |
| Copies of this w | vere sent to the LSS and the Applicant  | t on                   |                   |  |                   |
| State Authorize  | ed Agent:   |                        |                   | Date:  |                   |
| ☐ Complete       |   |                        |                   |  |                   |
| State Authorize  | ed Agent:   |                        |                   | Date:  |                   |

### 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).

| Subject Property (Address, PIN, etc.): 942 Hollies Pine Road |
|--|
|  |
| Property Owner Name (Print): HI HUNT Homes                   |
|  |
| Owner Representative (Print): Rene Goodspeed                 |
| Owner Representative (Sign): Leve Hoodseed                   |
|  |
| Date: 3/15/2024  |

## Mitchell Environmental, P.A.

March 14, 2024

Mr. William Sutphin HHHunt Homes Raleigh-Durham, LLC 1 Fenton Main Street, Suite 280 Cary, North Carolina 27511

Re: On-Site Sewage Disposal Site and Soils Evaluation Report for: Pinedarosa 1 Subdivision – Lot 2 942 Hollies Pines Road, Broadway, Harnett County

Mr. William Sutphin:

At your request, we have completed a site evaluation for use of on-site sewage disposal systems at Lot 2 of Pinedarosa 1 Subdivision located at 942 Hollies Pines Road in Broadway, Harnett County. The site evaluation was completed using pits on October 21, 2022, under moist soil conditions, based on the criteria found in the State Subsurface Rules, 15A NCAC 18A .1900, "Sewage Treatment and Disposal Systems". This report was prepared pursuant to and meets the requirements of G.S. 130A-335(a2).

#### <u>Site Evaluation for Use of On-Site Sewage Disposal Systems:</u>

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 provisionally suitable depth for on-site waste disposal systems.

Sites classified as provisionally suitable may be utilized for ground absorption sewage treatment and disposal systems consistent with the rules listed above but have moderate limitations. Sites classified provisionally suitable require some modifications and careful planning, design, and installation in order for a ground absorption sewage treatment and disposal system to function satisfactorily. Typically, a minimum of 36 inches of provisionally suitable soil is required for a site to receive a classification of provisionally suitable; however, shallower soil depths can be classified as provisionally suitable where all other evaluation criteria are acceptable and alternative septic system designs (shallow placement, fill systems, low-pressure pipe systems (LPP), large diameter pipe (LDP), sub-surface drip, etc.) are proposed.

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

provisionally 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 <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 provisionally suitable soil depth to accommodate subsurface wastewater systems with an LTAR of 0.30 gpd/ft². Observed provisionally suitable soil depths on this site are greater than 52 inches, with LTAR controlling soil textures ranging from clay loam to clay.

Topography on this lot can be generally characterized as a gentle to moderate convex side slope that generally sheds to the northeast. 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 #: 9691-79-0896.000
COUNTY: Harnett

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

|                  | R: HHHunt H                                |                           |                            |             |   |                                    |                        | DAT                     | TE EVALU                | ATED: 10/2                           | 1/2022                              |
|------------------|--|---------------------------|----------------------------|-------------|---|------------------------------------|------------------------|-------------------------|-------------------------|--------------------------------------|-------------------------------------|
| PROPO            | ESS: <u>1 Fenton</u><br>DSED FACILITY      | : Single-Fami             | ily Dwelling               | PROPOS      | ED DESIGN I   | FLOW (.0400):                      | 480                    |                         |                         | E: <u>0.57 acres</u>                 |                                     |
|                  | TION OF SITE:                              |                           |                            |             | 1.577.11  | g : 04                             |                        |                         |                         | ORDED: <u>3/3′</u>                   | 1/2020                              |
|                  | R SUPPLY: 🛛 I                              |                           | -                          |             |   | Spring □ Oth<br>PE OF WASTE        |                        |                         |                         | Strength 1                           | PWW                                 |
| P                | _  |                           |                            |             |   |                                    |                        |                         |                         |                                      |                                     |
| R<br>O<br>F<br>I |  |                           | SOIL                       | MORPHO      | OLOGY   | ОТНЕ                               | R PROFII               | LE FACT(                | ORS                     |                                      |                                     |
| L<br>E<br>#      | .0502<br>LANDSCAPE<br>POSITION/<br>SLOPE % | HORIZON<br>DEPTH<br>(IN.) | .0503<br>STRUCTU<br>TEXTUE |             | .0503<br>NSISTENCE/<br>NERALOGY                                     | .0504<br>SOIL<br>WETNESS/<br>COLOR | .0505<br>SOIL<br>DEPTH | .0506<br>SAPRO<br>CLASS | .0507<br>RESTR<br>HORIZ | .0509<br>PROFILE<br>CLASS<br>& LTAR* | .0502(d)<br>SLOPE<br>CORRE<br>CTION |
|                  | CV, 8%                                     | A, 0-6                    | SL, G                      | VFR,        | NS, NP, NEXP  |                                    |                        |                         |                         |                                      |                                     |
|                  |  | Bt, 6-52                  | SCL, S                     | BK FR, S    | .0503 SOIL .0505<br>SSISTENCE/ WETNESS/ SOII<br>NERALOGY COLOR DEPT | 52                                 |                        |                         | S, 0.30                 | 1.5"                                 |                                     |
| 1                |  |                           |                            |             |   |                                    |                        |                         |                         |                                      |                                     |
|                  |  |                           |                            |             |   |                                    |                        |                         |                         |                                      |                                     |
|                  |  |                           |                            |             |   |                                    |                        |                         |                         |                                      |                                     |
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| 2                |  |                           |                            |             |   |                                    |                        |                         |                         |                                      |                                     |
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|                  |  |                           |                            |             |   |                                    |                        |                         |                         |                                      |                                     |
| 1                |  |                           |                            |             |   |                                    |                        |                         |                         |                                      |                                     |
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| 3                |  |                           |                            |             |   |                                    |                        |                         |                         |                                      |                                     |
| )                |  |                           |                            |             |   |                                    |                        |                         |                         |                                      |                                     |
|                  |  |                           |                            |             |   |                                    |                        |                         |                         |                                      |                                     |
| <u> </u>         |  |                           |                            |             |   |                                    |                        |                         |                         |                                      |                                     |
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| 4                |  |                           |                            |             |   |                                    |                        |                         |                         |                                      |                                     |
|                  |  |                           |                            |             |   |                                    |                        |                         |                         |                                      |                                     |
|                  |  |                           |                            |             |   |                                    |                        |                         |                         |                                      |                                     |
| <b>*</b>         | EG OR IDTUS:                               | D. HETT. A. S. T.         |                            | . ID OVER   | . 1   | •                                  | •                      | •                       | •                       | •                                    | •                                   |
|                  | ESCRIPTION le Space (.0508)                | INITIAL SYS               | STEM REP.                  | Yes         |   | ECIEICATION (                      | 0500)-                 | Suitable                |                         |                                      |                                     |
| System           |  | IIIf                      |                            | IIIe        | EVALUAT   | SSIFICATION (<br>ED BY:            | .0309):                |                         | nell / Adam             | Aycock                               |                                     |
| Site LT          |  | 0.30                      |                            | 0.30        |   | PRESENT:                           |                        |                         |                         |                                      |                                     |
| Maximu<br>Comme  | m Trench Depth<br>ents:                    | 30" on Low                | Side 34"                   | on Low Side |   |                                    |                        |                         |                         |                                      |                                     |
|                  |  |                           |                            |             |   |                                    |                        |                         |                         |                                      |                                     |
|                  |  |                           |                            |             |   |                                    |                        |                         |                         |                                      |                                     |
|                  |  |                           |                            |             |   |                                    |                        |                         |                         |                                      |                                     |

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

#### **LEGEND**

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

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∪(<br>prof | Unsu<br>ile lo | nabie<br>cation | e)<br>ns an | d oth | er sit | e fea | tures | (dim | ensio | ns, re | eferei | nce o | r ben | chma | rk, a | nd N | orth) | ). |   |          |  |
|----------|----------|--|------|------|------|-------------|----------------|-----------------|-------------|-------|--------|-------|-------|------|-------|--------|--------|-------|-------|------|-------|------|-------|----|---|----------|--|
|          |          |  |      |      |      |             |                |                 |             |       |        |       |       |      |       |        |        |       |       |      |       |      |       |    |   |          |  |
|          |          |  |      |      |      |             |                |                 |             |       |        |       |       |      |       |        |        |       |       |      |       |      |       |    |   |          |  |
|          |          |  |      |      |      |             |                |                 |             |       |        |       |       |      |       |        |        |       |       |      |       |      |       |    |   |          |  |
|          |          |  |      |      |      |             |                |                 |             |       |        |       |       |      |       |        |        |       |       |      |       |      |       |    |   |          |  |
|          | $\dashv$ |  |      |      |      |             |                |                 |             |       |        |       |       |      |       |        |        |       |       |      |       |      |       |    |   |          |  |
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|          |          |  |      |      |      |             |                |                 |             |       |        |       |       |      |       |        |        |       |       |      |       |      |       |    |   |          |  |
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|          |          |  |      |      |      |             |                |                 |             |       |        |       |       |      |       |        |        |       |       |      |       |      |       |    |   |          |  |
|          |          |  |      |      |      |             |                |                 |             |       |        |       |       |      |       |        |        |       |       |      |       |      |       |    |   |          |  |
|          |          |  |      |      |      |             |                |                 |             |       |        |       |       |      |       |        |        |       |       |      |       |      |       |    |   |          |  |
|          |          |  |      |      |      |             |                |                 |             |       |        |       |       |      |       |        |        |       |       |      |       |      |       |    |   |          |  |
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|          |          |  |      |      |      |             |                |                 |             |       |        |       |       |      |       |        |        |       |       |      |       |      |       |    |   |          |  |
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|          |          |  |      |      |      |             |                |                 |             |       |        |       |       |      |       |        |        |       |       |      |       |      |       |    |   |          |  |

Revised January 2024 NCDHHS/DPH/EHS/OSWP

<sup>\*</sup> 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.

