

SOIL/SITE EVALUATION for ON-SITE WASTEWATER SYSTEM

(Complete all fields in full)

OWNER: Mattamy Homes LLC DATE EVALUATED: 5-2-24  
 ADDRESS: 167 Beech Circle  
 PROPOSED FACILITY: SFD 4-BK PROPOSED DESIGN FLOW (.0400): 480 PROPERTY SIZE: \_\_\_\_\_  
 LOCATION OF SITE: \_\_\_\_\_ PROPERTY RECORDED: \_\_\_\_\_  
 WATER SUPPLY: Public Single Family Well Shared Well Spring Other \_\_\_\_\_ WATER SUPPLY SETBACK: \_\_\_\_\_  
 EVALUATION METHOD: Auger Boring Pit Cut TYPE OF WASTEWATER: Domestic High Strength IPWW

| P<br>R<br>O<br>F<br>I<br>L<br>E<br># | .0502<br>LANDSCAPE<br>POSITION/<br>SLOPE % | HORIZON<br>DEPTH<br>(IN.) | SOIL MORPHOLOGY                |                                     | OTHER PROFILE FACTORS              |                        |                         |                         | .0509<br>PROFILE<br>CLASS<br>& LTAR* | .0503<br>SLOPE<br>CORRE<br>CTION |
|--------------------------------------|--|---------------------------|--------------------------------|-------------------------------------|------------------------------------|------------------------|-------------------------|-------------------------|--------------------------------------|----------------------------------|
|                                      |  |                           | .0503<br>STRUCTURE/<br>TEXTURE | .0503<br>CONSISTENCE/<br>MINERALOGY | .0504<br>SOIL<br>WETNESS/<br>COLOR | .0505<br>SOIL<br>DEPTH | .0506<br>SAPRO<br>CLASS | .0507<br>RESTR<br>HORIZ |                                      |                                  |
| 1<br>2<br>3<br>4                     | 1-2%<br>LS                                 | 0-20                      | SL, gc                         |                                     | 7.5/2<br>7/2 = 36"                 | 48"                    |                         |                         | .35                                  |                                  |
|                                      |  | 20-36                     | SCl, SBK                       | Fr, SS, NP, SE                      |                                    |                        |                         |                         |                                      |                                  |
|                                      |  | 36-48                     | CL, <sup>W</sup> SBK           |                                     |                                    |                        |                         |                         |                                      |                                  |
| 5<br>2                               | 1-2%<br>LS                                 | 0-16                      | SL, gc                         |                                     | 7.5/1<br>7/1 = 28"                 | 48"                    |                         |                         | .35                                  |                                  |
|                                      |  | 16-28                     | SCl, SBK                       | Fr, SS, NP, SE                      |                                    |                        |                         |                         |                                      |                                  |
|                                      |  | 28-48                     | CL, <sup>W</sup> SBK           |                                     |                                    |                        |                         |                         |                                      |                                  |
| 3                                    |  |                           |                                |                                     |                                    |                        |                         |                         |                                      |                                  |
|                                      |  |                           |                                |                                     |                                    |                        |                         |                         |                                      |                                  |
|                                      |  |                           |                                |                                     |                                    |                        |                         |                         |                                      |                                  |
|                                      |  |                           |                                |                                     |                                    |                        |                         |                         |                                      |                                  |
| 4                                    |  |                           |                                |                                     |                                    |                        |                         |                         |                                      |                                  |
|                                      |  |                           |                                |                                     |                                    |                        |                         |                         |                                      |                                  |
|                                      |  |                           |                                |                                     |                                    |                        |                         |                         |                                      |                                  |
|                                      |  |                           |                                |                                     |                                    |                        |                         |                         |                                      |                                  |

| DESCRIPTION             | INITIAL SYSTEM                      | REPAIR SYSTEM                                       | SITE CLASSIFICATION (.0509): <u>S</u><br>EVALUATED BY: <u>RL</u><br>OTHER(S) PRESENT: _____ |
|-------------------------|-------------------------------------|---|---|
| Available Space (.0508) | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/>                 |   |
| System Type(s)          | <u>25% Red</u>                      | <u>25% Red</u>                                      |   |
| Site LTAR               | <u>.35</u>                          | <u>.35</u>  |   |
| Maximum Trench Depth    | <u>18-22</u>                        | <u>18-22 (4" <sup>min</sup> 16" <sup>max</sup>)</u> |   |
| Comments:               | _____                               |   |   |

# LEGEND

| LANDSCAPE POSITION | SOIL GROUP | SOIL TEXTURE           | CONVENTIONAL LTAR (gpd/ft <sup>2</sup> ) | SAPROLITE LTAR (gpd/ft <sup>2</sup> ) | LPP LTAR (gpd/ft <sup>2</sup> ) | MINERALOGY/ CONSISTENCE |                      | STRUCTURE               |            |
|--------------------|------------|------------------------|--|---------------------------------------|---------------------------------|-------------------------|----------------------|-------------------------|------------|
|                    |            |                        |  |                                       |                                 | MOIST                   | WET                  |                         |            |
| CC (Concave slope) | I          | S (Sand)               | 0.8 - 1.2                                | 0.6 - 0.8                             | 0.4 - 0.6                       | MOIST                   | WET                  | SG (Single grain)       |            |
| CV (Convex Slope)  |            | LS (Loamy sand)        |  | 0.5 - 0.7                             |                                 | Lo (Loose)              | NS (Non-sticky)      | M (Massive)             |            |
| D (Drainage way)   | II         | 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)    | III        | SiL (Silt loam)        | 0.3 - 0.6                                | 0.1 - 0.3                             | 0.15 - 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)   |            | CL (Clay loam)         |  | None                                  |                                 | 0.15 - 0.3              | EFL (Extremely firm) | SP (Slightly plastic)   | PL (Platy) |
| N (Nose slope)     |            | SiCL (Silty clay loam) |  |                                       |                                 |                         |                      | P (Plastic)             |            |
| R (Ridge/summit)   |            | Si (Silt)              |  |                                       |                                 |                         |                      | VP (Very plastic)       |            |
| S (Shoulder slope) | IV         | SC (Sandy clay)        | 0.1 - 0.4                                | 0.05 - 0.2                            | SEXP (Slightly expansive)       |                         |                      |                         |            |
| T (Terrace)        |            | SiC (Silty clay)       |  |                                       | EXP (Expansive)                 |                         |                      |                         |            |
| 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.

*HORIZON DEPTH*

In inches below natural soil surface

*DEPTH OF FILL*

In inches from land surface

*RESTRICTIVE HORIZON*

Thickness and depth from land surface

*SAPROLITE*

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

*SOIL WETNESS*

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

*CLASSIFICATION*

S (Suitable) or U (Unsuitable)

**Show profile locations and other site features (dimensions, reference or benchmark, and North).**

