

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

(Complete all fields in full)

OWNER: GAH DATE EVALUATED: \_\_\_\_\_  
 ADDRESS: 161 Persimmon Tree Dr  
 PROPOSED FACILITY: SFD PROPOSED DESIGN FLOW (.0400): 4180 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><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  | P.T. 1                                     | 0-24                      | LS                             | Fr/usp/uxp                          | 10YR 8/1                           | > 18"                  | -                       | 6" layer<br>of rock<br>@ 18"<br>< 50% | S                                    | .4                               |
|  |  | 24-48                     | sc1                            | f./ssp/sexp                         | ≥ 30"                              |                        |                         |                                       |                                      |                                  |
| 2  | P.T. 2                                     | 0-26                      | LS                             | Fr/usp/uxp                          | 10YR 8/1                           | > 18"                  | -                       | ↓                                     | S                                    | .4                               |
|  |  | 26-48                     | sc1                            | f./ssp/sexp                         | ≥ 30"                              |                        |                         |                                       |                                      |                                  |
| 3  |  |                           |                                |                                     |                                    |                        |                         |                                       |                                      |                                  |
| 4  |  |                           |                                |                                     |                                    |                        |                         |                                       |                                      |                                  |

| DESCRIPTION             | INITIAL SYSTEM | REPAIR SYSTEM | SITE CLASSIFICATION (.0509):<br>EVALUATED BY: <u>M. R. RETH</u><br>OTHER(S) PRESENT: _____ |
|-------------------------|----------------|---------------|--|
| Available Space (.0508) | ✓              | ✓             |  |
| System Type(s)          | ✓              | ✓             |  |
| Site LTAR               | .4             | .4            |  |
| Maximum Trench Depth    | 18             | 18            |  |

Comments: curtain drain needed on back property line

# 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              | EFI (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) |                  | SC (Sandy clay)        |  |                                       |                                 |                         | SEXP (Slightly expansive) |                         |            |
| T (Terrace)        | SiC (Silty clay) | 0.1 - 0.4              | 0.05 - 0.2                               | 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).

