

SOIL/SITE EVALUATION for ON-SITE WASTEWATER SYSTEM

(Complete all fields in full)

OWNER: Smith Douglas Homes DATE EVALUATED: 4-17-24
 ADDRESS: 243 oriental st
 PROPOSED FACILITY: SFD 35' x 56' PROPOSED DESIGN FLOW (.0400): 360' 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 R O F I L E # | .0502 LANDSCAPE POSITION/ SLOPE % | HORIZON DEPTH (IN.) | SOIL MORPHOLOGY | | OTHER PROFILE FACTORS | | | | .0509 PROFILE CLASS & LTAR* | .0503 SLOPE CORRE CTION |
|--|--|---------------------------|--------------------------------|-------------------------------------|------------------------------------|------------------------|-------------------------|-------------------------|--------------------------------------|----------------------------------|
| | | | .0503 STRUCTURE/ TEXTURE | .0503 CONSISTENCE/ MINERALOGY | .0504 SOIL WETNESS/ COLOR | .0505 SOIL DEPTH | .0506 SAPRO CLASS | .0507 RESTR HORIZ | | |
| 1, 2, 3, 4 | 2-3% LS | 0-47 | SL, g' | Vf, NS, NP, SE | 48" | | | | .5 | |
| | | 47-48 | SCL, SK | Ff, SS, NP, SE | | | | | | |
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| DESCRIPTION | INITIAL SYSTEM | REPAIR SYSTEM | SITE CLASSIFICATION (.0509): <u>S</u> EVALUATED BY: <u>R.L.</u> OTHER(S) PRESENT: <u> </u> |
|-------------------------|-------------------------------------|-------------------------------------|---|
| Available Space (.0508) | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | |
| System Type(s) | <u>25% Red</u> | <u>50% Red</u> | |
| Site LTAR | <u>.5</u> | <u>.5</u> | |
| Maximum Trench Depth | <u>18-26"</u> | <u>18-26"</u> | |

Comments:

LEGEND

| LANDSCAPE POSITION | SOIL GROUP | SOIL TEXTURE | CONVENTIONAL LTAR (gpd/ft ²) | SAPROLITE LTAR (gpd/ft ²) | LPP LTAR (gpd/ft ²) | 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 | | None | EFI (Extremely firm) | SP (Slightly plastic) | PL (Platy) |
| N (Nose slope) | | SiCL (Silty clay loam) | P (Plastic) | | VP (Very plastic) | | | | |
| R (Ridge/summit) | | Si (Silt) | | | | | | | |
| 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).

