DENR/DEH

ON-SITE WASTEWATER SECTION

PIN 478-28-9465

Sheet ___ of ___
PROPERTY ID #: ___
COUNTY: ___

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

OWNER: Chris Davidson Contractors — APPLICATION DATE 6-16-09
ADDRESS: 115 North St Pisgah Church NR Bowles Plantation Rd — DATE EVALUATED: 6-26-09
PROPOSED FACILITY: SFR House — PROPOSED DESIGN FLOW (.1949): 360gpd — PROPERTY SIZE: 10.00 ac.
LOCATION OF SITE: Lot 1 Echo Glen Drive — PROPERTY RECORDED: ___
WATER SUPPLY: • Private • Public • Well • Spring • Other ___
EVALUATION METHOD: • X Auger Boring • Pit • Cut — TYPE OF WASTEWATER: • X Sewage • Industrial Process • Mixed

| PROFILE # | .1940 LANDSCAPE POSITION/ SLOPE % | HORIZON DEPTH (IN.) | SOIL MORPHOLOGY (.1941) .1941 STRUCTURE/ TEXTURE | .1941 CONSISTENCE/ MINERALOGY | OTHER PROFILE FACTORS .1942 SOIL WETNESS/ COLOR | .1943 SOIL DEPTH | .1956 SAPRO CLASS | .1944 RESTR HORIZ | PROFILE CLASS & LTAR |
|---|---|---|---|---|---|---|---|---|---|
| 1 | Linear to 15% 2% | 0-18 | gr scl | fr sssd | 7/8y | 48" | | | .25 P/S |
| | | 18-45 | sbk sc | fr sssd | | | | | |
| | | 45-48 | sbk cl | fr-sso | Very hard weather @ 48" | | | | |
| 2 | L-F 1% | 0-11 | gr sl | fr ss d | Redish brown common mn coating | 48" | | | 0.25 P/S |
| | | 11-31 | sbk cl | fr sssd | | | | | |
| | | 31-48 | sbk c | fr sso sbd | | | | | |
| 3 | L 2% NOT IN SYSTEM AREA | 0-28 | wsbk cl | fr sssd | common mild segmentation | 48" | | | |
| | | 28-37 | strong clay inclusions | | | | | | |
| | | Bc | another hole | | | | | | |
| 4 | FS 1% | 0-10 | gr sl | fr ss so | | 48" | | | 0.25 P/S |
| | | 10-21 | sbk cl | fr ss sbk | | | | | |
| | | 21-36 | sbk c | fr ss sbk | | | | | |
| | | 36-48 | sbk cl | fr ss sbk | | | | | |

| DESCRIPTION | INITIAL SYSTEM | REPAIR SYSTEM |
|---|---|---|
| Available Space (.1945) | YES | YES |
| System Type(s) | Conventional Gravity | Conventional Gravity |
| Site LTAR | 0.25 gal/sqft | 0.25 gal/sqft |

OTHER FACTORS (.1946): ___
SITE CLASSIFICATION (.1948): FS
EVALUATED BY: Fred Clemmer / David Hanson
OTHER(S) PRESENT: ___

COMMENTS: ___

# LEGEND

*use the following standard abbreviations*

| LANDSCAPE POSITION | GROUP | SOIL TEXTURE | CONVENTIONAL .1955 LTAR* | LPP .1957 LTAR* | MINERALOGY/ CONSISTENCE | STRUCTURE |
|---|---|---|---|---|---|---|
| CC (Concave Slope) | I | S (Sand) | 1.2 - 0.8 | 0.6 - 0.4 | NEXP (Non-expansive) | G (Single Grain) |
| CV (Convex Slope) | | LS (Loamy Sand) | | | SEXP (Slightly Expansive) | M (Massive) |
| D (Drainage Way) | | | | | EXP (Expansive) | CR (Crumb) |
| DS (Debris Slump) | II | SL (Sandy Loam) | 0.8 - 0.6 | 0.4 - 0.3 | | GR (Granular) |
| FP (Flood Plain) | | L (Loam) | | | | SBK (Subangular Blocky) |
| FS (Foot Slope) | | | | | | ABK (Angular Blocky) |
| H (Head Slope) | III | Si (Silt) | 0.6 - 0.3 | 0.3 - 0.15 | | PL (Platy) |
| L (Linear Slope) | | SiCL (Silty Clay Loam) | | | | PR (Prismatic) |
| N (Nose Slope) | | CL (Clay Loam) | | | | |
| R (Ridge) | | SCL (Sandy Clay Loam) | | | **MOIST** | **WET** |
| S (Shoulder Slope) | | SiL (Silt Loam) | | | | |
| T (Terrace) | | | | | VFR (Very Friable) | NS (Non-sticky) |
| | IV | SC (Sandy Clay) | 0.4 - 0.1 | 0.2 - 0.05 | FR (Friable) | SS (Slightly Sticky) |
| | | SiC (Silty Clay) | | | FI (Firm) | S (Sticky) |
| | | C (Clay) | | | VFI (Very Firm v. Very Sticky) | VS (Very Sticky) |
| | | O (Organic) | None | None | EFI (Extremely Firm) | NP (Non-plastic) |
| | | | | | | SP (Slightly Plastic) |
| | | | | | | P (Plastic) |
| | | | | | | VP (Very Plastic) |

*Adjust LTAR due to depth, consistence, structure, soil wetness, landscape, position, wastewater flow and quality.

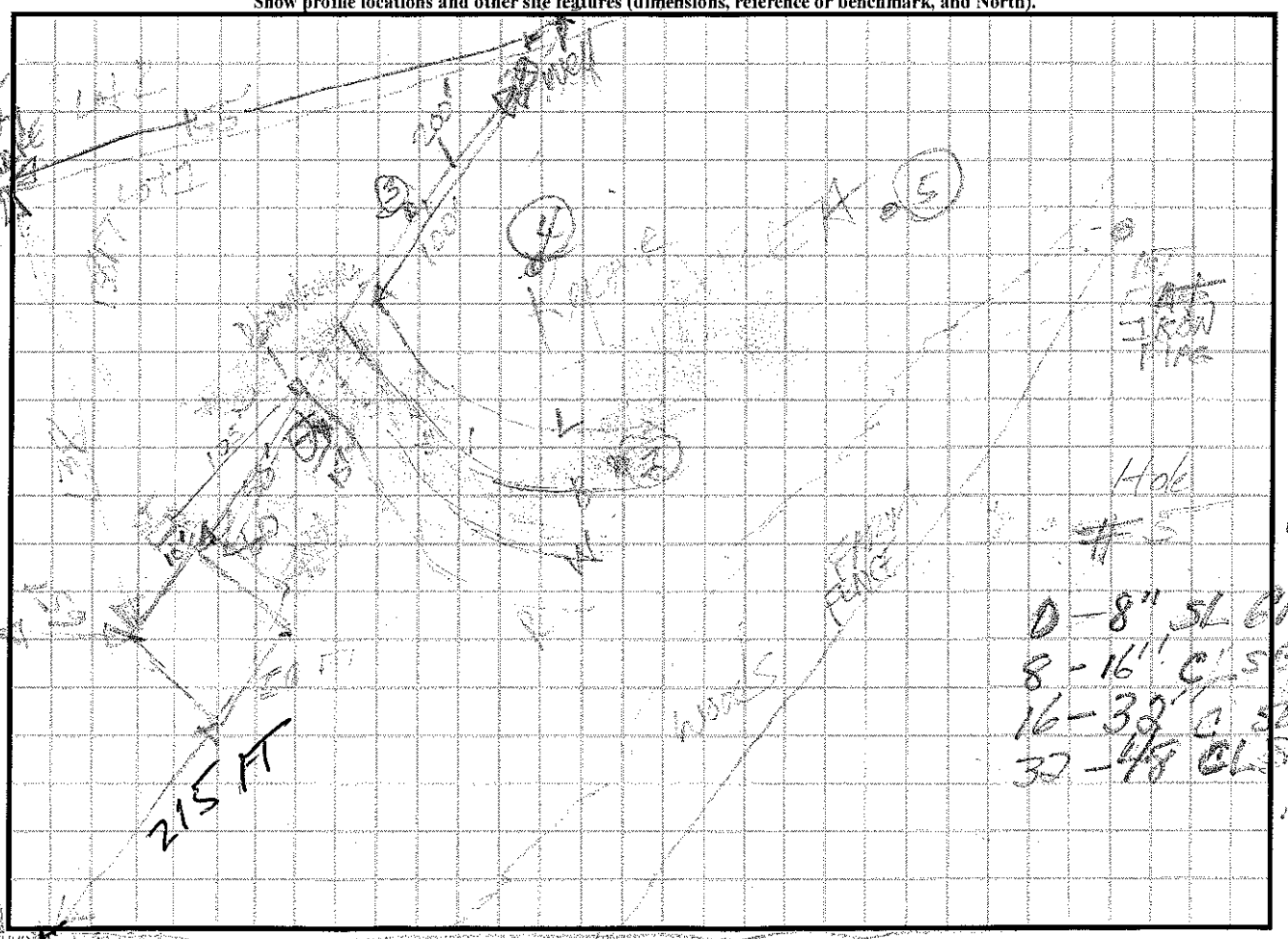
***NOTES***

| | |
|---|---|
| *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) |
| *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), PS (Provisionally Suitable), or U (Unsuitable) |

Evaluation of saprolite shall be by pits.

Long-term Acceptance Rate (LTAR): gal/day/ft$^2$

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




DENR (#####)
Review (#####)