DEPARTMENT OF ENVIRONMENT, HEALTH, AND NATURAL RESOURCES
DIVISION OF ENVIRONMENTAL HEALTH
ON-SITE WASTEWATER SECTION

Sheet ____ of
PROPERTY ID #: ____
COUNTY: IREDELL

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

OWNER: Rocky Creek AME Zion Church APPLICANT: Robert Eckles
ADDRESS: 205 Chadwick Rd Harmony APPLICATION DATE: 6-9-03 DATE EVALUATED: 6-9-03
PROPOSED FACILITY: Church PROPOSED DESIGN FLOW (.1949): ~ 522 gpd PROPERTY SIZE: 1.75 Acres
LOCATION OF SITE: US 21 N, TR Chief Thomas, TR Chadwick, End PROPERTY RECORDED: ____
WATER SUPPLY: ☐ Private ☑ Public ☑ Well ☐ Spring ☐ Other ____
EVALUATION METHOD: ☑ Auger Boring ☐ Pit ☐ Cut
TYPE OF WASTEWATER: ☑ Sewage ☐ Industrial Process ☐ Mixed

| PROFILE # | .1940 LANDSCAPE POSITION/ SLOPE % | HORIZON DEPTH (IN.) | SOIL MORPHOLOGY (.1941) STRUCTURE/ TEXTURE | .1941 CONSISTENCE/ MINERALOGY | OTHER PROFILE FACTORS .1942 SOIL WETNESS/ COLOR | .1943 SOIL DEPTH | .1956 SAPRO CLASS | .1944 RESTR HORIZ | PROFIL CLASS & LTAR |
|---|---|---|---|---|---|---|---|---|---|
| 1 | N 6% | 0-2 | MCGR SCL | FR MIX EXP | OLIVE BROWN | U | | | U |
| | | 2-6 | WMSBK C | FI MIX EXP | YELLOW BROWN | | | | |
| | | 6-10 | MASSIVE CL | FI EXP | GREEN/BLACK WEATHERED ROCK | | | | |
| | | 10+ | GREEN/BLACK WEATHERED ROCK (MAFIC) | | | | | | |
| 2 | L 8% | 0-3 | MCGR SCL | FR MIX EXP | | U | | | U |
| | | 3-7 | WMSBK C | FI MIX EXP | | | | | |
| | | 7-11 | MASSIVE CL | FI EXP | | | | | |
| | | 11+ | GREEN/BLACK WEATHERED MAFIC ROCK | | | | | | |
| 3 | L 10% | 0-4 | MCGR SCL | FR MIX EXP | | U | | | U |
| | | 4-8 | WMSBK C | FI MIX EXP | | | | | |
| | | 8-12 | MASSIVE CL | FI EXP | | | | | |
| | | 12+ | GREEN/BLACK WEATHERED | | MAFIC ROCK | | | | |
| 4 | | | | | | | | | |

| DESCRIPTION | INITIAL SYSTEM | REPAIR SYSTEM |
|---|---|---|
| Available Space (.1945) | U | U |
| System Type(s) | II | III |
| Site LTAR | U | U |

OTHER FACTORS (.1946): U
SITE CLASSIFICATION (.1948): U
EVALUATED BY: S. Hedrick
OTHER(S) PRESENT: Tommy Frye

# 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) | | SLC (Silt Loam Clay) | | | | |
| 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) |
| | | | | | VFI (Very Firm v. Very Sticky) | VS (Very Sticky) |
| | | O (Organic) | None | | EFI (Extremely Firm) | NP (Non-plastic) |
| | | | | | | SP (Slightly Plastic) |
| | | | | | | P (Plastic) |
| | | | | | | VP (Very Plastic) |

*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/ft²

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

