DEPARTMENT OF HEALTH AND HUMAN SERVICES
DIVISION OF PUBLIC HEALTH, ENVIRONMENTAL HEALTH SECTION
ON-SITE WATER PROTECTION BRANCH

Sheet 1 of 2
PROPERTY ID #: 4854107756
COUNTY: Iredell

**SOIL/SITE EVALUATION**
***for* ON-SITE WASTEWATER SYSTEM**
(Complete all fields in full)

OWNER: Marcus Ireland
ADDRESS: 486 Howards Bridge Rd
PROPOSED FACILITY: SFD
PROPOSED DESIGN FLOW (.1949): 240
LOCATION OF SITE: TR N T/L 901 T/R Howards Bridge
APPLICATION DATE 9/23/15
DATE EVALUATED: 12/11/15
PROPERTY SIZE: 4.0
PROPERTY RECORDED: NO

WATER SUPPLY: ☒ Private ☐ Public ☒ Well ☐ Spring ☐ Other W/A
EVALUATION METHOD: ☒ Auger Boring ☐ Pit ☐ Cut
TYPE OF WASTEWATER: ☒ 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 | L 8% | 0-12 | SBK CL | fr SE | Chroma 3 12"-32" 32"-36" 36"-48" Manganese Concretions | PS | W/A | W/A | PS |
| | | 12-32 | WSBK C | fr SE | | | | | |
| | | 32-48 | WABK BC | fr/fi SE | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| 2 | L 16% | 0-18 | SBK CL | fr SE | few manganese concretions | PS | W/A | W/A | .25 |
| | | 18-36 | WSBK C | fr SE | | | | | |
| | | 36-48 | WABK BC | fr/fi SE | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| 3 | L 16% | 0-10 | SBK CL | fr SE | PS | PS | W/A | W/A | PS .3 |
| | | 10-27 | SBK C | fr SE | | | | | |
| | | 27-48 | WSBK BC | fr/fi SE | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| 4 | L 14% | 0-8 | SBK CL | fr SE | PS | PS | W/A | W/A | .25 |
| | | 8-26 | SBK C | fr SE | | | | | |
| | | 26-48 | WABK BC | fr/fi SE | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |

| DESCRIPTION | INITIAL SYSTEM | REPAIR SYSTEM |
|---|---|---|
| Available Space (.1945) | PS | PS |
| System Type(s) | III | III |
| Site LTAR | .25 | .25 |

OTHER FACTORS (.1946): PS
SITE CLASSIFICATION (.1948): PS
EVALUATED BY: H. Snow
OTHER(S) PRESENT:

COMMENTS:

# SOIL/SITE EVALUATION

*(Continuation Sheet-Complete all field in full)*



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|---|---|---|---|---|---|---|---|---|---|
| 5 | L <9% | 0-10 | SBK CL | fr SE | PS | PS | N/A | N/A | PS .25 |
| | | 10-27 | WSBK C | fr SE | | | | | |
| | | 27-48 | WSBK BC | fr/fi SE | | | | | |
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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 | SEXP (Slightly Expansive) | G (Single Grain) |
| CV (Convex Slope) | | LS (Loamy Sand) | | | EXP (Expansive) | M (Massive) |
| D (Drainage Way) | | | | | | 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).**

