DENR/DEH

ON-SITE WASTEWATER SECTION

Sheet 1 of 4
PROPERTY ID #: 7981
COUNTY: IREDELL

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

OWNER: Terry Caldwell — APPLICATION DATE: 10/9/15
ADDRESS: 434 Rocky River Rd Mooresville NC — DATE EVALUATED: 11/3/15
PROPOSED FACILITY: SFR — PROPOSED DESIGN FLOW (.1949): 360 GPD — PROPERTY SIZE: —
LOCATION OF SITE: 434 Rocky River Rd. Mooresville — PROPERTY RECORDED: ~99'
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) .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 |
|---|---|---|---|---|---|---|---|---|---|
| P 1 | LL 5% | 0-9 | FILL | | N/A | 50" | F-L LITHO 30-50 | N/A | .3 9"-50" |
| | | 9-14 | BSCL, WSBK | FR, SS, SP | | | | | |
| | | 14-50 | RC, SBK/ABK | " " " | | | | | |
| P 2 | LL 7% | 0-10 | FILL | | Y MOTTLES 39-51" | 51" | Fe 30"-39" | N/A | .225 |
| | | 10-19 | BCL, WSBK | FR, SS, SP | | | | | |
| | | 19-39 | RC, ABK | FR, SS, SP | | | | | |
| | | 39-51 | R/C, ABK | FR, S, P | | | | | |
| P 3 | LL 8% | 0-5 | BCL, WSBK/SBK | FR, SS, SP | Y MOTTLES 24"-37" CHROMA 2's 37"-47" | 47" | Fe 20"-31" F-L SAP 38"-47" | * 37" | .225 |
| | | 5-37 | RC, ABK | " " " | | | | | |
| | | 37-47 | Y/RC, ABK/SBK | FI, S, P | | | | | |
| P 4 | LL 5% | 0-41 | RC, ABK | FR, SS, SP | N/A | 53" | Few Fe F-L SAP LITHIC 40"-53" | N/A | .275 |
| | | 41-53 | RCL, SBK | " " " | | | | | |

| DESCRIPTION | INITIAL SYSTEM | REPAIR SYSTEM |
|---|---|---|
| Available Space (.1945) | PS | PS |
| System Type(s) | Approved | Approved |
| Site LTAR | .225 | |

OTHER FACTORS (.1946): —
SITE CLASSIFICATION (.1948): PS
EVALUATED BY: SC
OTHER(S) PRESENT: Craig Thompson

COMMENTS: #6 Evaluated @ later date. Lots of rain prior. Dry Hole.

# SOIL/SITE EVALUATION

*(Continuation Sheet)*



DEPARTMENT OF ENVIRONMENT
AND NATURAL RESOURCES
DIVISION OF ENVIRONMENTAL HEALTH

PROPERTY ID #: 9981
DATE OF EVALUATION: 11/20/15
COUNTY: Iredell

| PROFILE # | .1940 LANDSCAPE POSITION/ SLOPE % | HORIZON DEPTH (IN.) | SOIL MORPHOLOGY (.1941) | | OTHER PROFILE FACTORS | | | | PROFILE CLASS & LTAR |
|---|---|---|---|---|---|---|---|---|---|
| | | | .1941 STRUCTURE/ TEXTURE | .1941 CONSISTENCE/ MINERALOGY | .1942 SOIL WETNESS/ COLOR | .1943 SOIL DEPTH | .1956 SAPRO CLASS | .1944 RESTR HORIZ | |
| A6 | LS 15% | 0-6 | FILL | | / | 46" | F-C-M SAP INCL 33"-46" | / | .3 |
| | | 6-30 | RBC, SBK | FR, SS, SP | | | | | |
| | | 30-46 | RCL, SBK | " " " " | | | | | |
| | | 46-48 | MASS SAP | " " " " | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |

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.

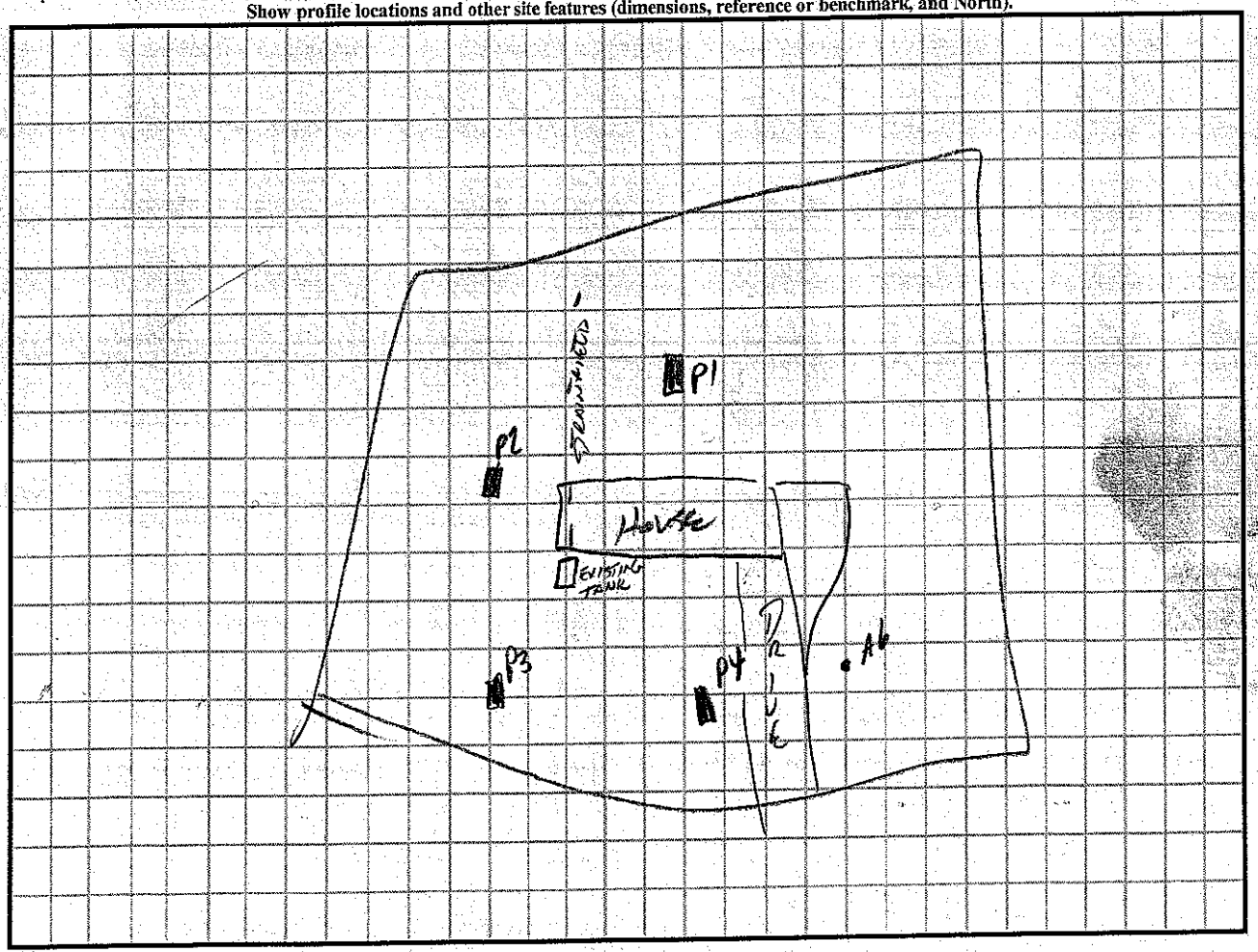
***NOTES***

| | |
|---|---|
| *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 (#####)

*SOIL NOTES* DEPRD 1999 4/4 140 10 GAL./DAY

3RD 4' x 35 (10' off PROP LINE)

28' 27' 50' 104 x 4' BED TOTAL

1 inch = 40 feet 1:480




267' PANEL @ .225

6 @ 45' LINES

140 SQ. FT.

5T

PROP. LINE

UPPER SIDE DRIVE

24' W

37' B

29' P

12' UF

102'

EXISTING LINE 75' FROM EDGE OF HOUSE

B 41'
O 51'
P 53'
W 53'
C 53
B 77' (R 32)
O 57' (2 12)
322

P 40'
W 24'

149 R.

240 W/BACK

228 2 TOTAL

31.5 GAL/DAY REPAIR BED

307.8 GAL/DAY REPAIR

1368 339.3 GAL/DAY

SEE IF EXTENSION 5' off P/L
REPAIR EXEMPT?