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

Sheet 1 of 2
PROPERTY ID #:
COUNTY:

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

OWNER: Robert D'Andrade APPLICANT: Same
ADDRESS: 514 Liggard Farm Rd, Stk. NC. APPLICATION DATE: DATE EVALUATED:
PROPOSED FACILITY: Expansion PROPOSED DESIGN FLOW (.1949): 480 PROPERTY SIZE:
LOCATION OF SITE: PROPERTY RECORDED: Yes
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 | SOIL MORPHOLOGY (.1941) CONSISTENCE/ MINERALOGY | OTHER PROFILE FACTORS .1942 SOIL WETNESS/ COLOR | .1943 SOIL DEPTH | .1956 SAPRO CLASS | .1944 RESTR HORIZ | PROFIL. CLASS & LTAR |
|---|---|---|---|---|---|---|---|---|---|
| 1 | Linear | 0-14 | sl/scl gr/sbk | fr ss/sp se/p | dk BRN | | | | |
| | | 14-22 | cl sbk | fr ss sp se/p | 24" red-yellow mottles | | | | |
| | | 22-42 | cl abk | fi sp se/p | 2.5Y 5/2 chroma 2+ @ | 42" | | | .25 |
| | | 42-48 | scl sbk | fr ss sp se/p | | | | | |
| | | | | | (30" to TS and) | | | | |
| 2 | | 0-3 | sl dk BRN | ME/p | 8" red/yellow mottles | | | | |
| | | 3-24 | cl sbk | fr ss sp se/p | 20" red/yellow/BRN mottles | | | | .25 |
| | | 24-39 | scl w/ mica wbk | fr ss NP sl/m | 24" chroma 2 | | | | |
| | | 39-48 | v massive | fi sp se/p | - Gley/white | | | | |
| 3A | Linear Side Slope | 0-3 | sl | | 11" BRN/yellow mottles | | | | LTAR w/o rock |
| | | 3-20 | cl | | | | | | |
| | | 20-21 | sap/rock | | | | | | |
| | | 21+ | rock | | | | | | |
| 4 | Linear Side Slope | 0-13 | l/scl | | | | | | LTAR w/o rock |
| | | 13-24 | sap | | | | | | |
| | | 24+ | Rock | | | | | | |

| DESCRIPTION | INITIAL SYSTEM | REPAIR SYSTEM |
|---|---|---|
| Available Space (.1945) | 95 | 95 |
| System Type(s) | | Pump, low pressure |
| Site LTAR | .25 | .25 |

OTHER FACTORS (.1946):
SITE CLASSIFICATION (.1948):
EVALUATED BY: Bill Lehman
OTHER(S) PRESENT:

# 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) |

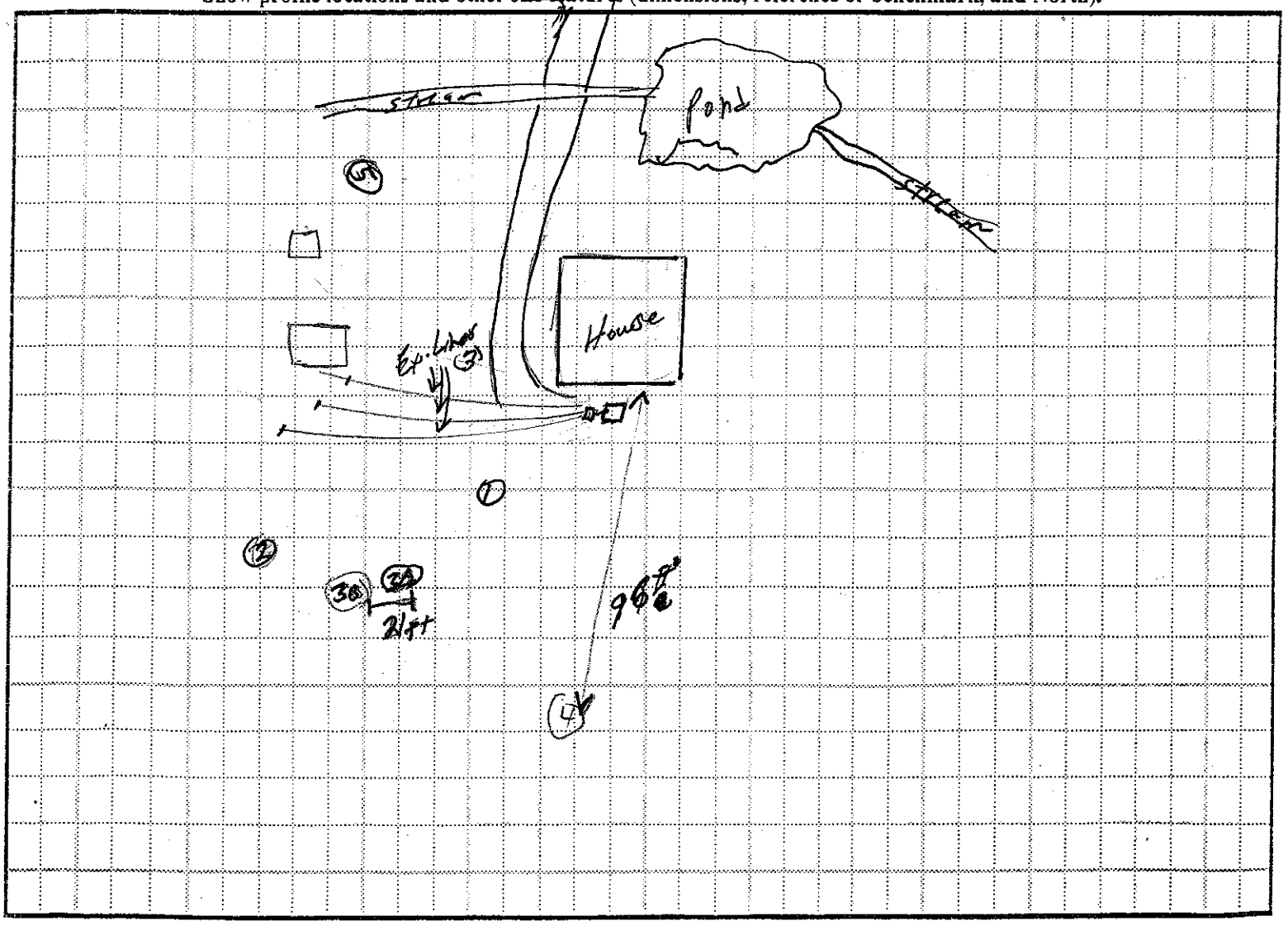
*NOTES*

| | |
|---|---|
| *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).



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|---|---|---|---|---|---|---|---|---|---|
| 3B | Linear | 0-12 | dl/mod fri slk ss sp SEAP | | DKBRN | | | | US |
| | | 12-46 | Sap | | | | | | 4% perc 60" dep |
| 5 | Linear 6% | 0-7 | sl | | 45" - yellow mottles | | | | PS |
| | | 7-28 | cl | | 32" - Chroma 2 | | | | .25 |
| | | 28-33 | c | | 36" - Chroma 3 | | | | |
| | | 33-48 | sicl | | (need subsurface drainage) | | | | |
| 3 | | | | | | | | | |
| 4 | | | | | | | | | |

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| System Type(s) | | |
| Site LTAR | | |

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