DENR/DEH

ON-SITE WASTEWATER SECTION

Sheet 1 of 2
PROPERTY ID #: 4703461878
COUNTY: Iredell

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

OWNER: Troutman Family Limited Partner — APPLICATION DATE 7-9-12
ADDRESS: 232 Davie Ave Statesville — DATE EVALUATED: 7-23-12
PROPOSED FACILITY: 3BR Residence — PROPOSED DESIGN FLOW (.1949): 360 gpd — PROPERTY SIZE: 0.471 acres
LOCATION OF SITE: 139 Cub Farm Rd. Statesville — PROPERTY RECORDED: Yes
WATER SUPPLY: • Private (Public) • Well • Spring • Other N/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 | 8% NS | 0-7 | SCL GR | Fr SS Small SE | +48" | +48" | +48" | +48" | PS 0.25 |
| | | 7-32 | C ABK | Fi SS/SP Mod SE | | | | | |
| | | 32-48 | CL+SAP WABK | Fr SS Mod SE | | | | | |
| 2 | 6% NS | 0-7 | SCL Gr | Fr SS Small SE | +37" | 37" | +37" | 37" | PS 0.25 |
| | | 7-30 | C ABK | Fi SS/SP Mod SE | | | | | |
| | | 30-37 | CL+SAP WABK | Fr SS Mod SE | | | | | |
| | | 37 | RCS | | | | | | |
| 3 | 4% NS | 0-10 | SCL Gr | Fr SS Small SE | +48" | 31" | 31" | +48" | Backhoe Pits needed |
| | | 10-31 | C ABK | Fi SS Mod SE | | | | | |
| | | 31-48 | SAP | | | | | | |
| 4 | 5% NS | 0-13 | SCL Gr | Fr SS Small SE | +48" | 36" | 36" | +48" | Need Backhoe Pits |
| | | 13-36 | CL WABK | Fr SS Small SE | | | | | |
| | | 36-48 | SAP | | | | | | |

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

OTHER FACTORS (.1946): N/A
SITE CLASSIFICATION (.1948): Backhoe Pits needed for further evaluation
EVALUATED BY: Justin Henderson
OTHER(S) PRESENT: N/A

COMMENTS: N/A

# 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.

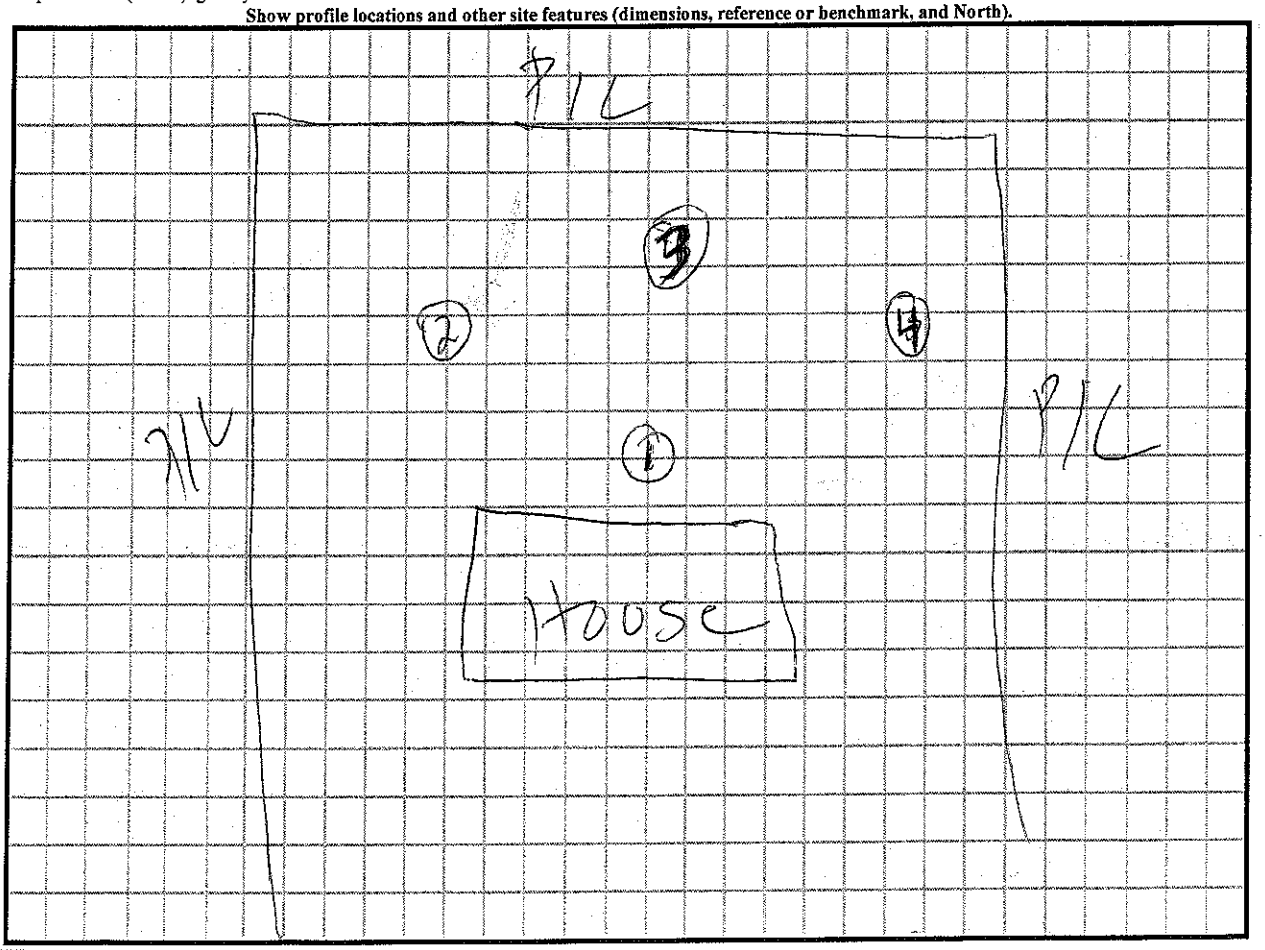
***NOTES***

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

DENR/DEH

ON-SITE WASTEWATER SECTION

Sheet 2 of 2
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COUNTY: Iredell

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LOCATION OF SITE: 139 Cub Farm Rd. Statesville — PROPERTY RECORDED: Yes
WATER SUPPLY: • Private • (Public) • Well • Spring • Other N/A
EVALUATION METHOD: • Auger Boring • (Pit) • Cut — TYPE OF WASTEWATER: • (Sewage) • Industrial Process • Mixed

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|---|---|---|---|---|---|---|---|---|---|
| 1 | 5% NS | 0-9 | SCL SBK | Fr Mod SE | +48" | 32" | 32" | 32" | PS 0.25 |
| | | 9-32 | C ABK | Fi Mod SE | | | | | |
| | | 32-48 | SAP Weath Rock | | | | | | |
| 2 | 4% NS | 0-8 | SCL SBK | Fr Mod SE | +48" | +48" | +48" S | +48" | PS 0.25 |
| | | 8-36 | C ABK | Fr SS Mod SE | | | | | |
| | | 36-48 | CL+SAP WABK | Fr Mod SE | | | | | |
| 3 | 6% NS | 0-9 | SCL SBK | Fr mod SE | +60" | +60" | 39" | +60" | PS 0.25 |
| | | 9-39 | C ABK | Fi Mod SE | | | | | |
| | | 39-60 | CL+SAP WABK | Fr mod SE | | | | | |
| 4 | 9% NS | 0-9 | SC SBK | Fr Mod SE | +60" | +60" | +60" | +60" | PS 0.25 |
| | | 9-36 | C ABK | Fi SS Mod SE | | | | | |
| | | 36-60 | CL+SAP WABK | Fr Mod SE | | | | | |

| DESCRIPTION | INITIAL SYSTEM | REPAIR SYSTEM |
|---|---|---|
| Available Space (.1945) | PS | PS |
| System Type(s) | III | V |
| Site LTAR | 0.25 | 0.25 |

OTHER FACTORS (.1946): N/A
SITE CLASSIFICATION (.1948): PS
EVALUATED BY: Just Henderson
OTHER(S) PRESENT: Steve Hedrick

COMMENTS: Trench Bottoms at 36" for initial Repair → Pretreatment w/ 50% Conventional line w/ trench bottom @ 2011

TS-1

# LEGEND

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| | | | | | | VP (Very Plastic) |

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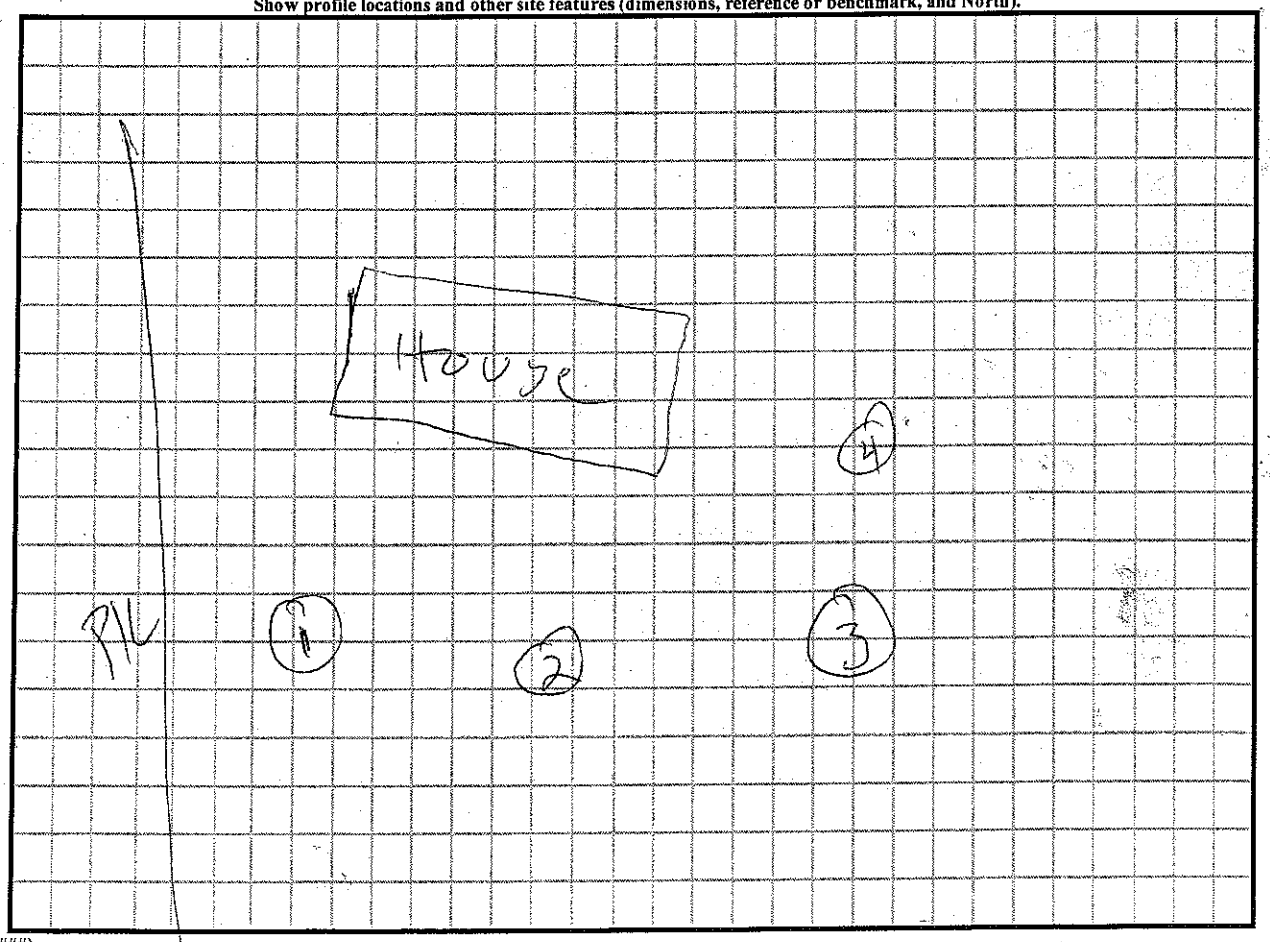
***NOTES***

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Review (#####)