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

Sheet 1 of 2
PROPERTY ID #: 47180191 28
COUNTY: Iredell

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

OWNER: Bayce Henderson
APPLICATION DATE: 8-3-15
ADDRESS: 494 Liberty Hill Rd.
DATE EVALUATED: 9-1-15
PROPOSED FACILITY: SFD
PROPOSED DESIGN FLOW (.1949): 360 gpd
PROPERTY SIZE: 3. acres
LOCATION OF SITE: 494 Liberty Hill Rd.
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 | 7% slight HS | 0-24 | Fill ? | | | | | | US 0-24 US 24-48 Lg weed pits + Fill removed |
| | | 24-48 | CL SBK | Fr Mod SE | 48" | 48" | 48" | — | |
| | | many mag | deposits | present | | | | | |
| 2 | 3% slight HS | 0-16 | Fill | | | | | | US |
| | | 16 | unable to | get Deeper | — | — | — | — | |
| 3 | L | 0-21 | Fill | | | | | | US |
| | | | | | — | — | — | — | |
| 4 | 17% L | 0-15 | Fill | | | | | | PS 0.25 |
| | | 15-30 | CL SBK | Fr Mod SE | 48" | 48" | 48" | 48" | |
| | | 30-36 | C SBK | Fr Mod SE | | | | | |
| | | 36-48 | SAP Rock BC w SBK | Fr Mod SE | | | | | |
| | | many mag | deposits | HS | | | | | |

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

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

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) | | | | |
| S (Shoulder Slope) | | SiL (Silt Loam) | | | | |
| T (Terrace) | | | | | MOIST | WET |
| | IV | SC (Sandy Clay) | 0.4 - 0.1 | 0.2 - 0.05 | VFR (Very Friable) | NS (Non-sticky) |
| | | SiC (Silty Clay) | | | FR (Friable) | SS (Slightly Sticky) |
| | | C (Clay) | | | FI (Firm) | S (Sticky) |
| | | O (Organic) | None | None | VFI (Very Firm v. Very Sticky) | VS (Very Sticky) |
| | | | | | 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.

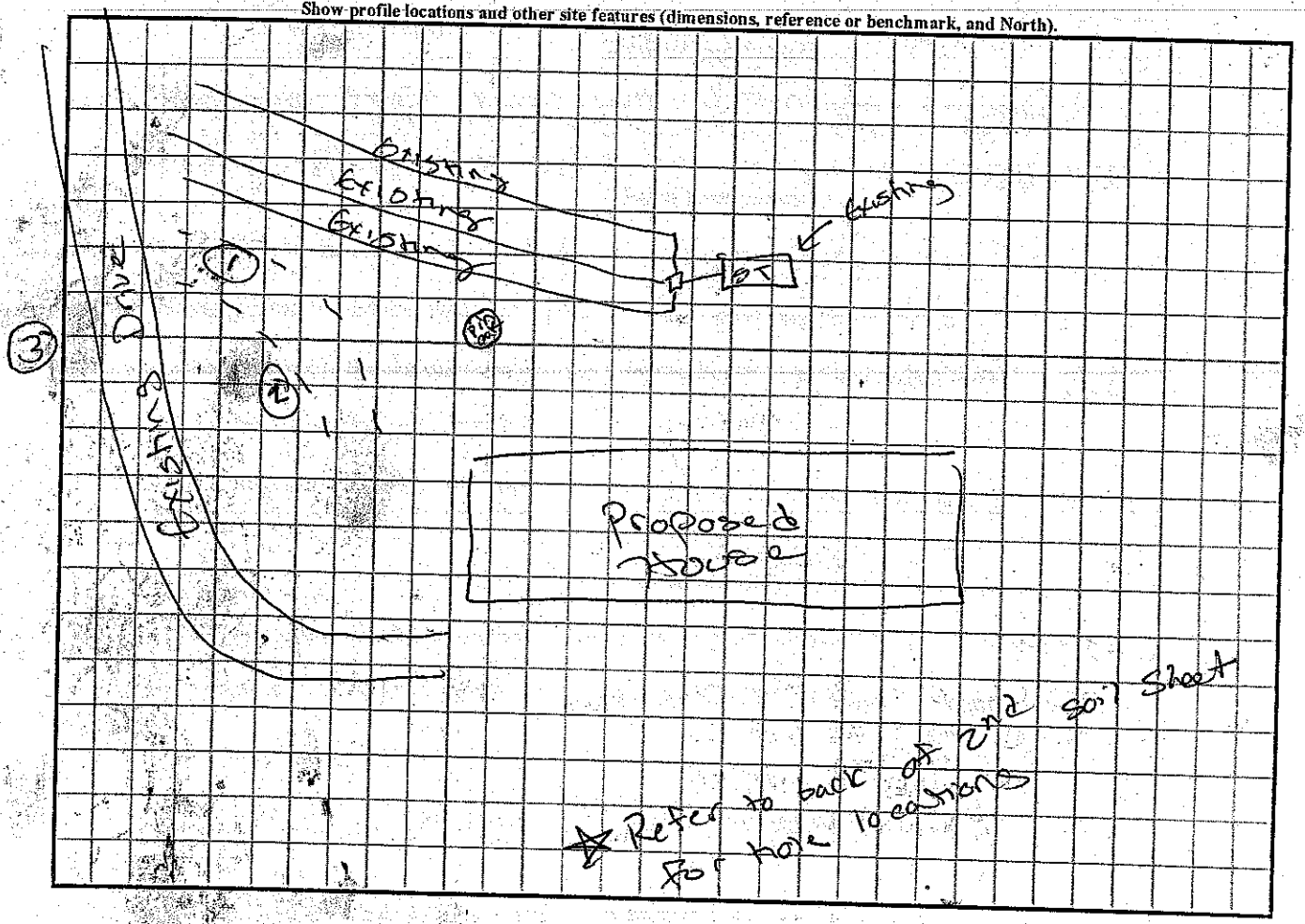
***NOTES***

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



# SOIL/SITE EVALUATION

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

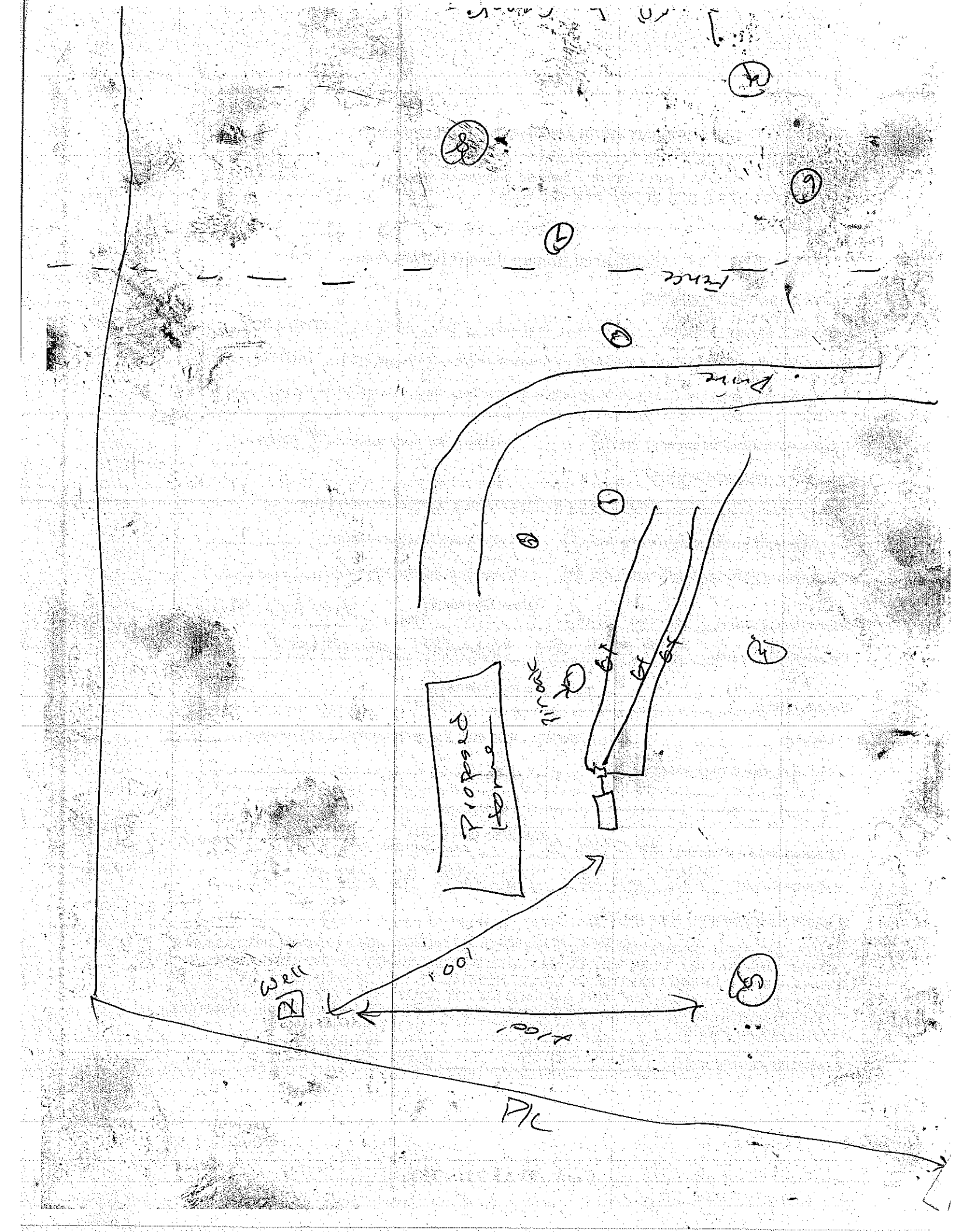


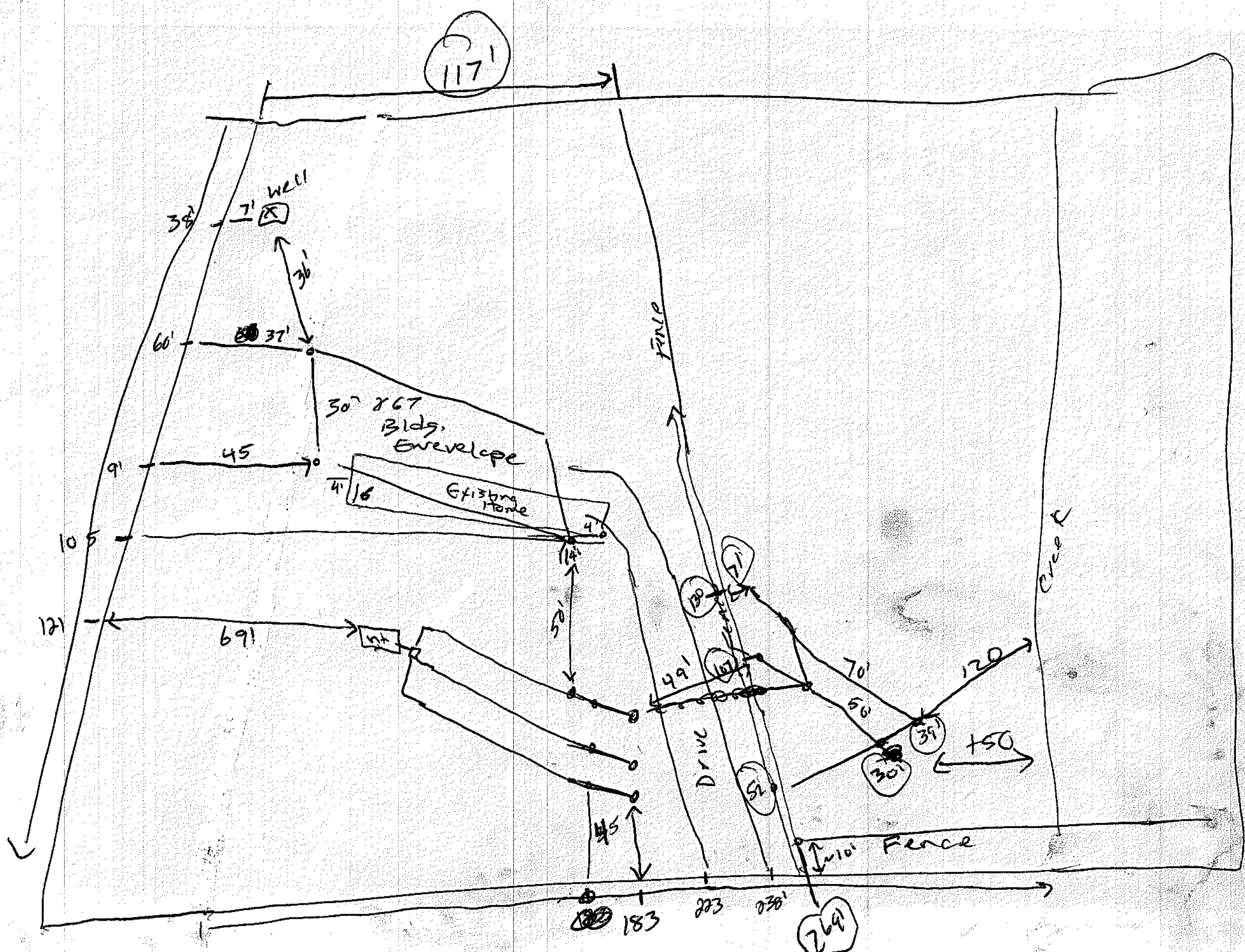
DEPARTMENT OF HEALTH AND HUMAN SERVICES
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ON-SITE WATER PROTECTION BRANCH

PROPERTY ID #: 4718019128
DATE OF EVALUATION: 9-1-15
COUNTY: Iredell

| 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 | PROFILE CLASS & LTAR |
|---|---|---|---|---|---|---|---|---|---|
| 5 | 18% L | 0-15 | Fill ?? | | — | — | — | — | US |
| | | 15 | Rock | | | | | | |
| 6 | 16% L | 0-15 | C SBK | Fr Mod SE | +48" Y/B mottles 44-48" | +48" | +48" | 48" | PS 0.25 |
| | | 15-48 | BC WSBK | Fr Mod SE | | | | | |
| | | many mag deposits!! | | | | | | | |
| 1 | 13% L | 0-16 | C SBK | Fr Mod SE | +48" Y/B mottles 36-48" | +48" | +48" | +48" | PS 0.25 |
| | | 16-48 | BC Sap Incl WSBK | Fr Mod SE | | | | | |
| | | many mag deposits!! | | | | | | | |
| 8 | 8% L | 0-12 | CL SBK | Fr Mod SE | +48" Y/B mottles 30-48" | +48" | +48" | +48" | PS 0.25 |
| | | 12-22 | C SBK | Fr Mod SE | | | | | |
| | | 22-48 | BC Sap Incl WSBK | Fr Mod SE | | | | | |
| | | many mag deposits | | | | | | | |
| 9 | 14% L | 0-10 | CL SBK | Fr Mod SE | 40" | +40" | +40" | 40" | PS 0.25 |
| | | 10-18 | C SBK | Fr Mod SE | | | | | |
| | | 18-40 | BC Sap Incl WSBK | Fr Mod SE | | | | | |
| | | 40-48 | Chroma 2s | | | | | | |
| | | many mag deposits | | | | | | | |

COMMENTS: TB @ 24"


Fence
Fence
Proposed Home
Well
100'
100'
PL


117'
Well
38'
7'
36'
60'
37'
30' x 67
Bldg.
Envelope
9'
45
4'
16
Existing
Home
105
14'
4'
121'
691
Int
56'
49'
45
183
223
238'
264'
Fence
Drive
Fence
130
107
71
70'
56'
120
39'
30'
+50
52
~10'
Fence
Creek