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

*Sheet* ____ *of* ____
PROPERTY ID #: _____
COUNTY: _____

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

OWNER: _____ APPLICATION DATE_____
ADDRESS: _____ DATE EVALUATED: _____
PROPOSED FACILITY: _5 bedroom_____ PROPOSED DESIGN FLOW (.1949): _600 GPD_____ PROPERTY SIZE: _____
LOCATION OF SITE: _Point 1371_____ PROPERTY RECORDED: _____
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) | | 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 | |
| 1 | LS 5% | 0-8 | Br SCL WSBK | FR SS SP | Few YBs @ 24-34" No YBs >34" | 48" | | | PS 0.25 |
| | | 8-34 | R C SBK | FR SS SP | | | | | |
| | | 34-48 | R CL WSBK | FR SS SP | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| 2 | LS 5% | 0-8 | Br SCL WSBK | FR SS SP | Few YBs @ 26-35" No YBs >35" | 48" | | | PS 0.25 |
| | | 8-35 | R C SCK | FR SS SP | | | | | |
| | | 35-48 | R CL WSBK | FR SS SP | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| 3 | LS 3% | 0-37 | R C SBK | FR SS SP | | 48" | | | PS 0.3 |
| | | 37-48 | R CL WSBK | FR SS SP | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| 4 | LS 7% | 0-40 | R C SBK | FR SS SP | | 48" | | | PS 0.3 |
| | | 40-48 | R CL WSBK | FR SS SP | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |

| DESCRIPTION | INITIAL SYSTEM | REPAIR SYSTEM |
|---|---|---|
| Available Space (.1945) | 1500 FT2 | 800 FT2 |
| System Type(s) | 25% Reduction | PPBPS |
| Site LTAR | 0.3 | 0.25 |

OTHER FACTORS (.1946): _____
SITE CLASSIFICATION (.1948): _____

EVALUATED BY: _M A & Associates_____
OTHER(S) PRESENT: _____

COMMENTS: _____

# SOIL/SITE EVALUATION

*(Continuation Sheet)*

*Sheet ____ of ____*

DEPARTMENT OF ENVIRONMENT
AND NATURAL RESOURCES
DIVISION OF ENVIRONMENTAL HEALTH

PROPERTY ID #: ____________
DATE OF EVALUATION: ____________
COUNTY: ____________

| 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 | |
| 5 | LS 3% | 0-40 | R C SBK | FR SS SP | Few YBs | 48" | | | PS 0.25 |
| | | 40-48 | R CL WSBK | FR SS SP | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| 6 | LS 5% | 0-30 | R C SBK | FR SS SP | | 48" | | | PS 0.3 |
| | | 30-48 | R CL WSBK | FR SS SP | | | | | |
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COMMENTS: ____________________________________________



**MICHAEL ATHANAS & ASSOCIATES**
**LICENSED SOIL SCIENTIST**
**1999 CANDLEWICK DRIVE**
**FORT MILL, S.C. 29715**
**803-802-4403 (office)**
**803-802-4402 (fax)**

**Reference: Data Sheet for The Point 1371**
**House Footprint:** See attached
**Building Setbacks:** 53' front, 15' side, 35' back
**Water Source:** Community well
**Number of Bedrooms:** 5/600 GPD
**Proposed LTAR:** 0.3 GPD/FT2 (initial), 0.25 GPD/FT2 (repair)
**Proposed System Type:** 25% Reduction
**Proposed Repair System Type:** PPBPS
**Distribution:** Pressure Manifold
**Flow per Tap:** 7.11 GPM
**Tap Size & Material:** ½" SCH40
**System Flow:** 35.55 GPM
**Dosing Volume:** 219'
**Pump Run Time:** 6.2 minutes
**Elevation Head:** 4.2'
**Friction Head:** 1.7'
**Pressure Head:** 2'
**Total Dynamic Head:** 7.9'
**Supply Line Length:** 70'
**Septic/Pump Tank Size:** 1500/1500 gallons
**Proposed Trench Bottom:** 36"

| Line | Design Length | Actual Length | Elevation |
|---|---|---|---|
| **Red 1** | **90'** | **91'** | **5.8'** |
| **Blue 2** | **100'** | **105'** | **6.5'** |
| **Orange 3** | **100'** | **130'** | **7.2'** |
| **White 4** | **105'** | **125'** | **7.8'** |
| **Blue 5** | **105'** | **142'** | **8.4'** |
| Blue 6 | | 165' | 6.5' |
| Pink 7 | | 160' | 7.5' |
| White 8 | | 85' | 8.2' |
| Red 9 | | 50' | 8.6' |

**Initial System:** 500' **Repair System:** 460'
**Pump tank:** 5.0 **House corner:** 4.8' **Benchmark:** 3.1'

**Comments:**
There is a 25' utility easement crossing the lot which contains a community water line which is center in the easement. The supply line must cross the 18" below the waterline. Please note all lines have been picked up by Piedmont Design.

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

Sheet ___ of ___
PROPERTY ID #: ___
COUNTY: ___

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

OWNER: P. & R. 13 APPLICANT: ___
ADDRESS: ___ APPLICATION DATE: ___ DATE EVALUATED: 6/24
PROPOSED FACILITY: House PROPOSED DESIGN FLOW (.1949): 480 PROPERTY SIZE: 6/25
LOCATION OF SITE: ___ PROPERTY RECORDED: ___
WATER SUPPLY: ☐ Private ☒ Public ☐ Well ☐ Spring ☐ Other ___
EVALUATION METHOD: ☐ Auger Boring ☒ Pit ☐ Cut
TYPE OF WASTEWATER: ☒ Sewage ☐ Industrial Process ☐ Mixed

1371

| 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 | Linear 2-4% | 0-8 | WK SBK SL | SS SP FR | Br | | | | .25-.3 |
| | | 8-34 | Mo SBK C | SS SP FI | Red | | | | |
| | | 34-48 | WK SBK CL | SS SP FR | Red; F/C Sap | | | | |
| 2 | Linear 1-4% | 0-7 | WK SBK SL | SS SP FR | Br | | | | US |
| | | 7-24 | Mo SBK/WK ARP C | SS SP FR | Red; F Yel Br | | | | |
| | | 24-48 | WK SBK CL | SS SP FR | Red; F distinct [illegible] | | | 24" SPK | |
| | | 48-52 | WA L SAP | F | Red; [illegible] | | | | |
| ~~3~~ | Linear 0-2% | 0-3 | Mo [illegible] | SS SP FR | [illegible] | | | | .3 |
| | | 3-12 | WK SBK [illegible] | SS SP FR | LT [illegible] | | | | |
| | | 12-29 | Mo SBK C | SS SP FR | Red | | | | |
| | | 29-48 | Mo SBK CL | SS SP FR | Red; F Sap F Relic Yel Br | | | | |
| ~~4~~ | Linear 2-4% | 0-11 | WK SBK SL | SS SP FR | Br | | | | .3 |
| | | 11-32 | Mo SBK C | SS SP FR | Red | | | | |
| | | 32-48 | Mo SBK CL | SS SP FR | Red; F Sap | | | | |

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

OTHER FACTORS (.1946): ___
SITE CLASSIFICATION (.1948): ___
EVALUATED BY: ___

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

Sheet ___ of ___
PROPERTY ID #: ___
COUNTY: ___

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

OWNER: Point on Norman APPLICANT: ___
ADDRESS: ___ APPLICATION DATE: ___ DATE EVALUATED: ___
PROPOSED FACILITY: House PROPOSED DESIGN FLOW (.1949): 480 PROPERTY SIZE: ___
LOCATION OF SITE: ___ PROPERTY RECORDED: ___
WATER SUPPLY: ☐ Private ☒ Public ☐ Well ☐ Spring ☐ Other ___
EVALUATION METHOD: ☐ Auger Boring ☒ Pit ☐ Cut
TYPE OF WASTEWATER: ☒ Sewage ☐ Industrial Process ☐ Mixed

1371

| 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 |
|---|---|---|---|---|---|---|---|---|---|
| 5 LY | Linear 2-4% | 0-6 | WK SBK SL | SS SP FR | Br | | | | |
| | | 6-26 | WK ABK C | SS SP FR | Red; C yel Br & | | pale Br | 15-28" | |
| | | 26-48 | WK ABK CL | SS SP FR | Red; C yel Br C 10YR 6/1 | | | | US |
| | | | | | | | | | |
| | | | | | | | | | |
| 6 2 | Linear 4-6% | 0-11 | WK SBK OR SL | SS SP FR | Br; 0-5" Rocks | | | | |
| | | 11-36 | WK ABK C | SS SP FR | Red; C yel Br | | | | |
| | | 36-48 | WK SBK CL | SS SP FR | Red; F yel Br; F Sap | | | | .25 |
| | | | | | | | | | |
| | | | | | | | | | |
| B1 3 | | 0-4 | gr brn SL | fr | | | | | |
| | | 4-32 | SBK RC | fi fr sp sap | few brn mottles | | | | .25 |
| | | 32-52 | WK SBK RCL | FrSS sp | Lmd Sap | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| B2 4 | | 0-8 | WK SBK brn SCL | fr | | | | | |
| | | 8-32 | SBK RC | fi fr sp sap | few brn mott Lmd Sap | | | | .02-.25 |
| | | 32-51 | WK SBK mar RCL | fi ss sp | common mi Sap | | | | |
| | | | | | | | | | |
| | | | | | | | | | |

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

OTHER FACTORS (.1946): ___
SITE CLASSIFICATION (.1948): ___
EVALUATED BY: ___

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

Sheet ___ of ___
PROPERTY ID #: ___
COUNTY: ___

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

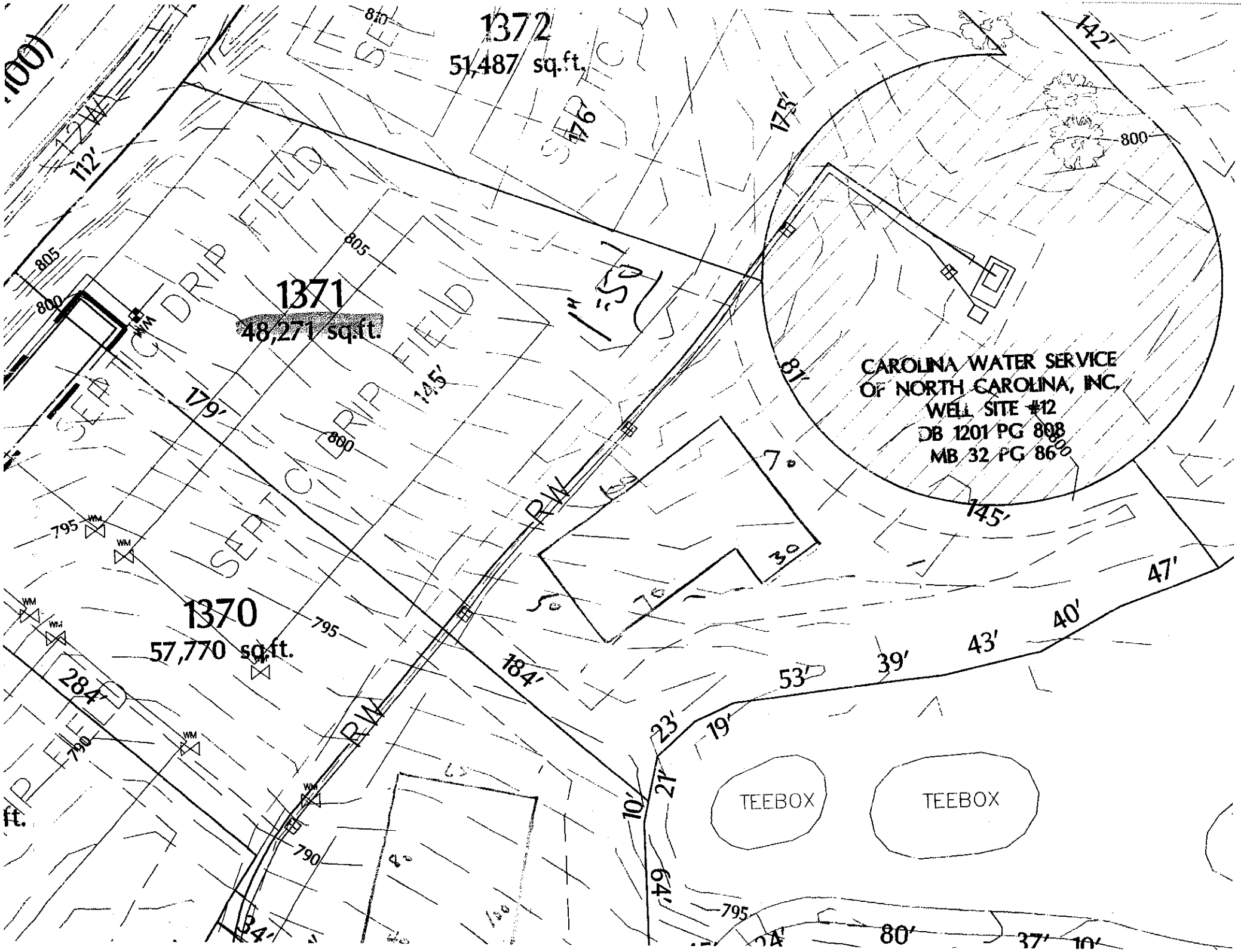
OWNER: Point on Noman APPLICANT: ___
ADDRESS: ___ APPLICATION DATE: 480 DATE EVALUATED: 6/24
PROPOSED FACILITY: House PROPOSED DESIGN FLOW (.1949): ___ PROPERTY SIZE: ___
LOCATION OF SITE: ___ PROPERTY RECORDED: ___
WATER SUPPLY: ☐ Private ☒ Public ☐ Well ☐ Spring ☐ Other ___
EVALUATION METHOD: ☐ Auger Boring ☒ Pit ☐ Cut
TYPE OF WASTEWATER: ☒ Sewage ☐ Industrial Process ☐ Mixed

1372

| 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 |
|---|---|---|---|---|---|---|---|---|---|
| 1A | Linear 2-4% | 0-5 | Mo GR L | SS SP FR | DK Br | | | | .25 |
| | | 5-12 | Mo Gr SL | SS SP FR | Lt Br | | | | |
| | | 12-18 | WK SBK scl | SS SP FR | Lt Red | | | | |
| | | 18-37 | Mo SBK C | SS SP FR | Red; F/C Yel Br | | | | |
| | | 37-52 | WK SBK CL | SS SP FR | Red; C Sap; C Yel Br | | | | |
| 2 | Linear 1-1.5% | 0-6 | Mo GR SL | SS SP FR | Black | | | | .3 |
| | | 6-36 | Mo SBK C | SS SP FR | Red; F mica | | | | |
| | | 36-50 | WK SBK CL | SS SP FR | Red; F/C Sap | | | | |
| 3 | | | | | | | | | |
| 4 | | | | | | | | | |

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

OTHER FACTORS (.1946): ___
SITE CLASSIFICATION (.1948): ___
EVALUATED BY: ___


1372
51,487 sq.ft.
1371
48,271 sq.ft.
1370
57,770 sq.ft.
CAROLINA WATER SERVICE
OF NORTH CAROLINA, INC.
WELL SITE #12
DB 1201 PG 808
MB 32 PG 86
SEPTIC DRIP FIELD
R/W
TEEBOX
TEEBOX
112'
175'
142'
145'
179'
284'
184'
53'
39'
43'
40'
47'
23'
19'
21'
10'
64'
80'
37'
805
800
795
790
WM