## 135 Thunderhill Road Fast Track Septic System Information

| | |
|---|---|
| **Number of Bedrooms** | 4 |
| **Basement or Crawl** | **Basement with Plumbing** |
| **Design Flow (gpd)** | 480 |
| **LTAR (gpd/ft2)** | 0.275 |
| **Primary System Type** | **LP PPBPS** |
| No. Lines | 6 (See Table) |
| Total Linear Feet | 290 |
| Trench Width | 2' min. |
| Trench Spacing | 8' min. |
| Pump Required | Yes |
| Distribution Device | Gate Valve Box w/ LPP Distribution |
| Maintenance Agreement Required | Yes |
| Length and Diameter of Supply Pipe | 90' of 2" SCH 40 PVC |
| Size of laterals | 1 1/4" SCH 40 PVC |
| Flow Rate through the system | 32 gpm |
| Elevation head | Approx. 9.2' |
| Pressure head | 3.0' |
| Friction head | 1.5' |
| 20% Contingency | 2.7' |
| Total Head | 16.4' |
| Pump Requirements | 32 gpm @ 16.4' of head<br>To be designed by installer. |
| Maximum Dosing Volume | 230.4 gal -2.1 doses/day @ design flow* |
| Volume of water pumped per dose | Calculated to specific tank by measure or dealer engineering specifications ( 1 cubic ft. of water equals 7.48 gal.) |
| Pump Run per dose | approx. 7.2 min. |
| Check Valve | Yes |
| Siphon Break hole | No |
| **Repair System** | **LP PPBPS (Repair Exempt)** |
| Total Linear Feet | 103 |
| Repair LTAR | 0.3 |

***Before placement of cap block, one panel on each line near the center of the field should be observed filling to make certain that it does not overflow top chamber into air chambers of panel. If overflow occurs, reduce floats by 25 gallons and reset until no overflow is observed.**

## Table 1: Summary of Primary and Repair Nitrification Line Specifications

| Line No. | Use | Line Color | System Type | Line Length (Ft.) | Rod Reading Elev. (Ft.) | Panels | Holes | Hole Spacing | Hole Size (In.) (.41) | GPM |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | System | Pink | LPPPBPS | 25 endfed | 5.1 | 5.7 | 5 | 1 per panel | 5/32" | 2.05 |
| 2 | System | Orange | LPPPBPS | 35 endfed | | 8 | 8 | 1 per panel | 5/32" | 3.28 |
| 3 | System | White | LPPPBPS | 40 endfed | | 9 | 9 | 1 per panel | 5/32" | 3.69 |
| 4 | System | Red | LPPPBPS | 50 endfed | 7.1 | 11.5 | 11 | 1 per panel | 5/32" | 4.51 |
| 5 | System | Pink | LPPPBPS | 80 centerfed | 7.4 | 18.4 | 18 | 1 per panel | 5/32" | 7.38 |
| 6 | System | Blue | LPPPBPS | 60 centerfed | 7.9 | 13.8 | 13 | 1 per panel | 5/32" | 5.33 |
| 7 | Repair | White | LPPPBPS | 40 | | | | | | 26.24 |
| 8 | Repair | Orange | LPPPBPS | 43 | 5.8 | | | | | |
| 9 | Repair | NF | LPPPBPS | 20 | | | | | | |
| | | | | | 6.4 | Total: 64 (11.9) | Total: 64 (1 in each panel turned up) | | | |
| | | | | Total System: 290' | | | | | | |
| | | | | Total Repair: 103' | | | | | | |

| | | | |
|---|---|---|---|
| Tank | Red | 1000 gal (2 compartment) | 6.3 |
| Pump Tank | Red | 1000 gal. | 6.3 |
| House | Blue | | |

**Note: Lot repair exempt**

# SOIL/SITE EVALUATION

*(Continuation Sheet)*

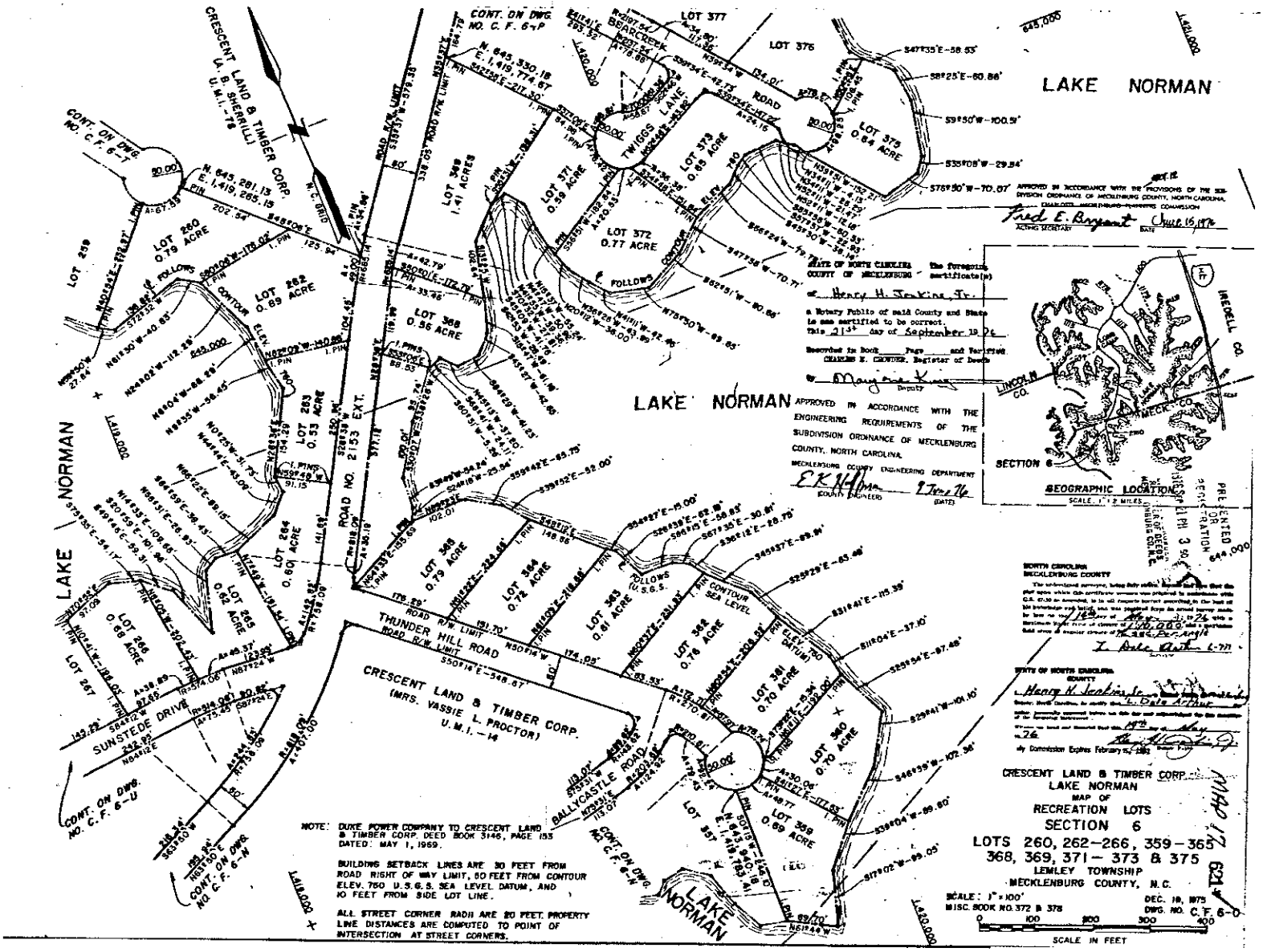
*Sheet ____ of ____*

)EPARTMENT OF ENVIRONMENT
ND NATURAL RESOURCES
)IVISION OF ENVIRONMENTAL HEALTH

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

| PROFILE # | .1940 LANDSCAPE POSITION/ SLOPE % | HORIZON DEPTH (IN.) | SOIL MORPHOLOGY (.1941) .1941 STRUCTURE/ TEXTURE | SOIL MORPHOLOGY (.1941) .1941 CONSISTENCE/ MINERALOGY | OTHER PROFILE FACTORS .1942 SOIL WETNESS/ COLOR | .1943 SOIL DEPTH | .1956 SAPRO CLASS | .1944 RESTR HORIZ | PROFILE CLASS & LTAR |
|---|---|---|---|---|---|---|---|---|---|
| 1 | L | 0-4 | WK GR SCL | FR SS/SP | Red Br | | F/C Mn | | 0.25 |
| | | 4-24 | Mo SBK C | FR SS/SP | Red | | | | |
| | | 24-30 | Mo SBK C | FR SS/SP | Red | | | | |
| | | 30-36 | WK ABK C | FR S/P | Red | | C Vel Br | | |
| | | 36-48 | WK SBK CL | FR SS/SP | Red | | F Sap | | |
| 2 | L | 0-18 | Mo SBK C | FR SS/SP | Red | | C Mica | | 0.3-0.35 |
| | | 18-33 | Mo SBK CL | FR SS/SP | Red | | C Mica | | |
| | | 33-48 | WK SBK CL | FR SS/SP | Red | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| 3 | L | 0-18 | Mo SBK C | FR SS/SP | Red | | | | 0.3-0.35 |
| | | 18-36 | Mo SBK CL | FR SS/SP | Red | | C Sap | | |
| | | 36-48 | WK SBK CL | FR SS/SP | Red | | C Sap | | |
| | | | | | | | | | |
| | | | | | | | | | |
| 4 | L | 0-18 | Mo GR SCL | FR SS/SP | Br | | | | 0.275 |
| | | 18-32 | Mo SBK C | FR SS/SP | Red; CMn | | F Sap | | |
| | | 32-48 | WK SBK CL | FR SS/SP | Red | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| 5 | L | 0-18 | Mo SBK C | FR SS/SP | Red | | F Mica | | 0.3 |
| | | 18-38 | Mo/WK SBK CL | FR SS/SP | Red | | C Mica, F Sap | | |
| | | 38-48 | WK SBK CL | FR SS/SP | Red | | | | |
| | | | | | | | | | |
| | | | | | | | | | |

)MMENTS: KMS/PM




Book 34, Page 25, File Number