Permit # 15795/20

PIN # 4811-44-1193.002

DENR/DEH

ON-SITE WASTEWATER SECTION

Sheet 1 of 1

PROPERTY ID #:

COUNTY: Iredell

SOIL/SITE EVALUATION
for ON-SITE WASTEWATER SYSTEM

OWNER: Kathy TC Morton

ADDRESS: 283 Myrtle Road Statesville, NC 28625

PROPOSED FACILITY:

PROPOSED DESIGN FLOW (.1949): 480 gpd

LOCATION OF SITE: 115 N TL Mountain View Rd to Myrtle

APPLICATION DATE 8-13-09

DATE EVALUATED: 9-23-09

PROPERTY SIZE: 6.715 Acres

PROPERTY RECORDED: Lot 2

WATER SUPPLY: X Private • Public • X Well • Spring • Other Roads ~0.6 mile on right

EVALUATION METHOD: X Auger Boring • Pit • Cut

TYPE OF WASTEWATER: X Sewage • Industrial Process • Mixed

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	8-10% Side Slope	0-6"	Fill Material		2.5YR	48"			PS 0.25 gal/ft2 /day
		6-48"	SC WK	FI SS SP					
2	8-10% Side Slope	0-4"	Fill Material		2.5YR	42"	GRP 2 SL		US 0.25 gal/ft2 /day soil depth
		4-24"	SCL WK	FI SS SP					
		24-42	SL/SCL PM	FRI SS SP					
		42"	SAP SL	FRI SS SP					
3	8-10% Side Slope	0-24	SC WKGR	FI SS SP	2.5YR	38"	GRP 2 SL		US soil depth 0.25 gal/ft2 /day
		24-38	SL/SCL PM	FRI SS SP					
		38"	SAP SC	FRI SS SP					
4	Repair #1 8-10% Side Slope	0-3"	SCL WKGR	FRI SS SP	2.5YR	48"			PS 0.25 gal/ft2 /day
		3-30"	C WKGR	FI SS SP					
		30-48	SL/CL WKGR	FRI SS SP					

DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM
Available Space (.1945)	Yes	YES
System Type(s)	GRAVITY 35% RDM	PUMP 250%/50%
Site LTAR	0.25 gal/ft2	0.25 gal/ft2

OTHER FACTORS (.1946): NONE

SITE CLASSIFICATION (.1948): PS

EVALUATED BY: Fred Clemmer

OTHER(S) PRESENT: Rep Matney, Greg Caldwell

COMMENTS: Keep Initial System as Shallow As Poss - MAX depth 30" on Lowest Bottoms Install as Proposed

Soil Borings on Back of Permit Disclaimer Sheet.

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)
Repair (2)	IV	SC (Sandy Clay)	0.4 - 0.1	0.2 - 0.05	FR (Friable)	SS (Slightly Sticky)
0-4" Fill		SiC (Silty Clay)			FI (Firm)	S (Sticky)
4-24" SC wk SAB FI SS SP SOM		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)

24-34" SL SAP FRI SS SP SOM

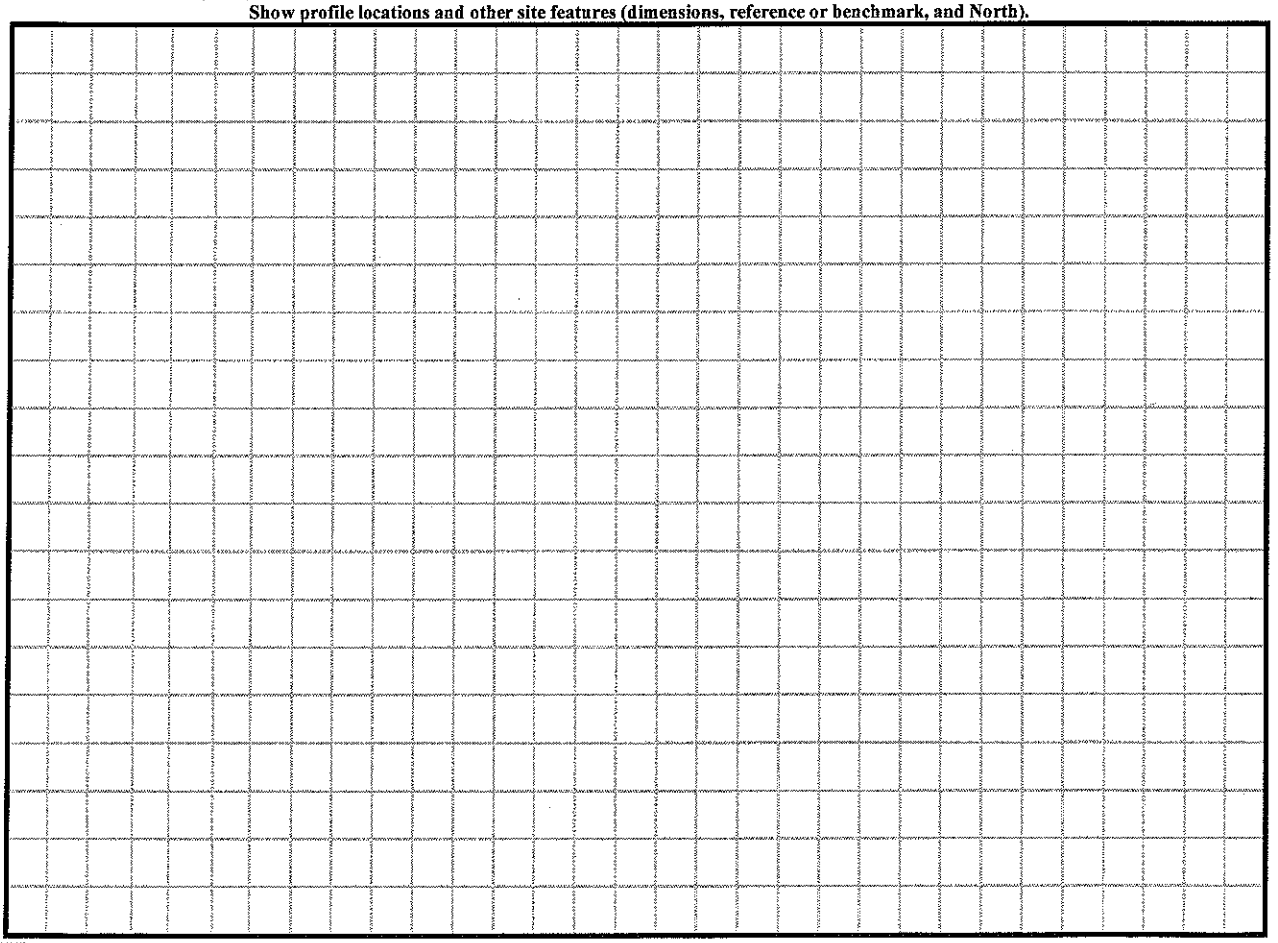
34-54" SAP

34" soil depth (US soil depth)

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 (#####)