DEPARTMENT OF HUMAN RESOURCES
DIVISION OF HEALTH SERVICES

SITE / SOIL EVALUATION FOR SANITARY SEWAGE SYSTEM

OWNER: JIM & DELORES GRAHAM PHONE: _____ DATE REQUESTED: 4-19-93 DATE EVALUATED: 4-20-93

ADDRESS: _____ PROPERTY IDENTIFICATION NO.: _____

COUNTY: IREDELL PROPERTY SIZE: _____ ~~PROPOSED~~ EXISTING FACILITY: SINGLE FAMILY DWELLING

LOCATION OF SITE: INDIAN TRAIL ROAD SECTION 7 LOT 21

WATER SUPPLY: On-Site Well ✓ Community ____ Public ____ EVALUATION BY: Auger Boring ✓ Pit ____ Cut ____

FACTORS	PROFILE 1	PROFILE 2	PROFILE 3	PROFILE 4	PROFILE 5
LANDSCAPE POSITION	SIDESLOPE	SIDESLOPE			
SLOPE (%)					
HORIZON I DEPTH	0-4	0-10			
Texture Group	dark gray-brown. sil	sil			
Consistence	mvfr	mvfr			
Structure	mod med gran	mod med gran			
Mineralogy					
HORIZON II DEPTH	4-9	10-20			
Texture Group	sil	fsl			
Consistence	mvfr	mvfr			
Structure	mod med gran	wk/s med+fn gran			
Mineralogy					
HORIZON III DEPTH	9-~25	20-30			
Texture Group	sicl	fsl clay peds			
Consistence	msfi	mvfr			
Structure	wk med sbk	wk med+fn gran			
Mineralogy	1:1 mixed	peds mixed/2:1			
HORIZON IV DEPTH	25-45	30-50			
Texture Group	sil (fs)	(fn+med) sl			
Consistence	mfr	mvfr			
Structure	wk fn sbk/gran	wk fn gran			
Mineralogy		clay peds mixed/2:1			
SOIL WETNESS	>50"	>50"			
RESTRICTIVE HORIZON	>50"	>50"			
SAPROLITE	@25"	@10"			
CLASSIFICATION					
LONG-TERM ACCEPTANCE RATE					

SITE CLASSIFICATION: NONE-SEE REMARKS SITE LONG-TERM ACCEPTANCE RATE: NONE-SEE REMARKS

EVALUATED BY: ANDREA LEMON, RS OTHER(S) PRESENT: DAVID HINSON, RS

REMARKS: EVALUATION REQUESTED BY MR. HINSON TO DETERMINE FEASIBILITY OF ATTEMPTING ON-SITE REPAIR OF EXISTING SEPTIC SYSTEM. IF THIS WERE A SITE EVALUATION FOR IMPROVEMENTS PERMIT ISSUANCE, BACKHOE PITS WOULD BE NECESSARY FOR SAPROLITE EVALUATION. SLOPE IS PROVISIONALLY SUITABLE. EXCESSIVE SUBSURFACE LATERAL FLOW CAN BE EXPECTED ESPECIALLY IN THE FINE SANDY MATERIAL FOUND AT PROFILE 2. CLAY MINERALOGY, COLOR AND UNDETERMINED DEPTH OF A RESTRICTIVE HORIZON, SLOPE, AND SANDY TEXTURE ALL CONTRIBUTE TO THE RISK OF SYSTEM MALFUNCTION. RECOMMEND WATER CONSERVATION IN THE HOME AND GUTTER/SURFACE/SUBSURFACE WATER DIVERSION AS APPROPRIATE. INSTALL MAXIMUM AMOUNT OF REPAIR POSSIBLE.

LEGEND

LANDSCAPE POSITION
- R - Ridge
- S - Shoulder slope
- L - Linear slope
- FS - Foot slope
- N - Nose slope
- H - Head slope
- Cc - Concave slope
- Cv - Convex slope
- T - Terrace
- FP - Flood Plain

TEXTURE (Group I: 1.2-0.8; Group II: 0.8-0.6; Group III: 0.6-0.3; Group IV: 0.4-0.1 — Avg. Pipestem Rate)
- I: s - sand; ls - loamy sand
- II: sl - sandy loam; l - loam; si - silt; sil - silt loam
- III: sicl - silty clay loam; cl - clay loam; scl - sandy clay loam
- IV: sc - sandy clay; sic - silty clay; c - clay

MOIST
- vfr - very friable
- fr - friable
- fi - firm
- vfi - very firm
- efi - extremely firm

CONSISTENCE

WET
- Ns - non-sticky
- Ss - slightly sticky
- S - sticky
- Vs - very sticky

- Np - non-plastic
- Sp - slightly plastic
- P - plastic
- Vp - very plastic

STRUCTURE
- sg - single grain
- m - massive
- cr - crumb
- gr - granular
- sbk - subangular blocky
- abk - angular blocky
- pl - platy
- pr - prismatic

MINERALOGY
1:1, 2:1, mixed

Use the above standard abbreviations.

NOTES:
- Horizon Depth – in inches
- Depth of Fill – in inches from land surface
- Restrictive Horizon – thickness and inches from land surface
- Saprolite – S (suitable) or U (unsuitable)

NOTES:
- 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)
- Long-Term Acceptance Rate – gal/day/ft²

DHS 2601 (Revised _____)
Sanitation Branch (Review _____)