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

Sheet 1 of 1
PROPERTY ID #:
COUNTY: IREDELL

SOIL/SITE EVALUATION
for ON-SITE WASTEWATER SYSTEM

OWNER: FIRST CHOICE HOUSING
ADDRESS: 119 BEECHNUT, STVL 28677
PROPOSED FACILITY: 3 BR HOUSE, PROPOSED DESIGN FLOW (.1949): 360
LOCATION OF SITE: APPLE VALLEY CT 11
APPLICATION DATE
DATE EVALUATED: 7.31.06
PROPERTY SIZE: 2.218 ACRE
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) .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	35% L	0-19	FILL	MATERIAL					PS w/ FILL REMOVED 0.3
		19-20	TOP SOIL	W/ ORGANIC					
		20-34	~~SBK~~ SC	FR SOFT					
		34-62	SBK C	FR SOFT					
2	L 35%	0.33	FILL	MATERIAL					PS w/ FILL REMOVED 0.3
		33-34	TOP SOIL W/	ORGANIC					
		34-38	SBK SC	FR SOFT					
		38-68	SBK C	FR SOFT					
3									
4									

DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM
Available Space (.1945)	PS	PS
System Type(s)	II	III
Site LTAR	0.3	0.3

OTHER FACTORS (.1946): NONE
SITE CLASSIFICATION (.1948): PS
EVALUATED BY: S. HEDRICK
OTHER(S) PRESENT: BOB'S BACKHOE

COMMENTS: FILL MATERIAL MUST BE REMOVED PRIOR TO PERMITTING

LEGEND

use the following standard abbreviations

LANDSCAPE POSITION	GROUP	SOIL TEXTURE	CONVENTIONAL .1955 LTAR*	LPP .1957 LTAR*	MINERALOGY/ CONSISTENCE	STRUCTURE
CC (Concave Slope) CV (Convex Slope) D (Drainage Way) DS (Debris Slump) FP (Flood Plain) FS (Foot Slope) H (Head Slope) L (Linear Slope) N (Nose Slope) R (Ridge) S (Shoulder Slope) T (Terrace)	I	S (Sand) LS (Loamy Sand)	1.2 - 0.8	0.6 - 0.4	NEXP (Non-expansive) SEXP (Slightly Expansive) EXP (Expansive)	G (Single Grain) M (Massive) CR (Crumb) GR (Granular) SBK (Subangular Blocky) ABK (Angular Blocky) PL (Platy) PR (Prismatic)
	II	SL (Sandy Loam) L (Loam)	0.8 - 0.6	0.4 - 0.3		
	III	Si (Silt) SiCL (Silty Clay Loam) CL (Clay Loam) SCL (Sandy Clay Loam) SiL (Silt Loam)	0.6 - 0.3	0.3 - 0.15		
	IV	SC (Sandy Clay) SiC (Silty Clay) C (Clay)	0.4 - 0.1	0.2 - 0.05		
		O (Organic)	None	None		

MOIST	WET
VFR (Very Friable)	NS (Non-sticky)
FR (Friable)	SS (Slightly Sticky)
FI (Firm)	S (Sticky)
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.

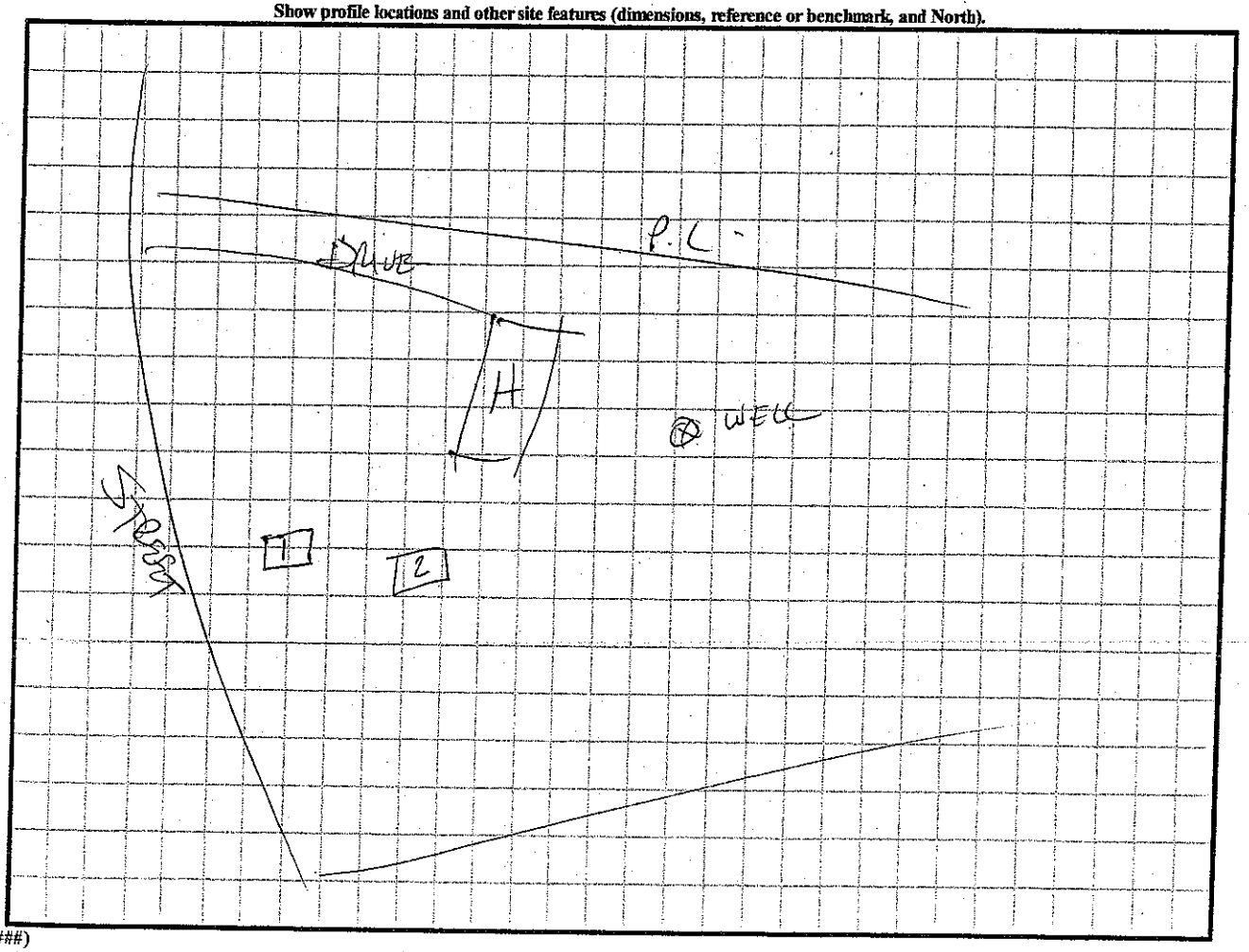
NOTES

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).



DENR (######)
Review (#####)

DIVISION OF ENVIRONMENTAL HEALTH
ON-SITE WASTEWATER SECTION

PROPERTY ID #: _____
COUNTY: IRD

SOIL/SITE EVALUATION
for ON-SITE WASTEWATER SYSTEM

OWNER: Chris Gibson APPLICANT: First Choice Homes / Chris Gibson
ADDRESS: 176 Apple Valley APPLICATION DATE: 5/11 DATE EVALUATED: 5-8
PROPOSED FACILITY: 3Bn. PROPOSED DESIGN FLOW (.1949): 360 PROPERTY SIZE: 2.2
LOCATION OF SITE: Lot 11 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) 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
P-1	L 25 %	0-22	Red Clay SBK	F→Fri SS/SP (SEXP)	—	57"	—	—	.3
		22-40	Red Clay Loam WSBK/Mas	F→Fri SS/SP (SEXP)					
		40-57	Red/Yell Clay Loam WSBK	Fri SS/SP (SEXP)	Few SAP Lined				
P-2	L 25 %	0-10	Br. SCL WSBK	Fri SS/SP (SEXP)	—	58"	—	—	.3
		10-34	Red Clay SBK	F→Fri SS/SP (SEXP)					
		34-46	Red Clay Loam WSBK	Fri SS/SP (SEXP)					
		46-58	Red/Yell SCL WSBK	Fri SS/SP (SEXP)	SAP + Mica Lined.				
P-3	L 27 %	0-8	Br SCL WSBK	Fri SS/SP (SEXP)	—	60"	—	—	.3
		8-40	Red Clay SBK	Fri SS/SP (SEXP)					
		40-60	Red Clay Loam WSBK	Fri SS/SP (SEXP)					
AUGER 4	L 25 %	0-6	Br SCL WSBK	Fri SS/SP (SEXP)		52"	—	—	.3
		6-34	Red Clay SBK	Fri SS/SP (SEXP)	Few Rock Lined				
		34-52	Red Clay Loam WSBK	Fri SS/SP (SEXP)	Few SAP Lined				

DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM
Available Space (.1945)	900 ft²	627 ft²
System Type(s)	INNOV	PPBPS
Site LTAR	.3	.3

OTHER FACTORS (.1946): ← Repair 3' Centers
SITE CLASSIFICATION (.1948): PS
EVALUATED BY: M ATHAWAY
OTHER(S) PRESENT: —

DIVISION OF ENVIRONMENTAL HEALTH
ON-SITE WASTEWATER SECTION

PROPERTY ID #: 2-2
COUNTY: IRD

SOIL/SITE EVALUATION
for ON-SITE WASTEWATER SYSTEM

OWNER: Continuation APPLICANT: _____
ADDRESS: _____ APPLICATION DATE: _____ DATE EVALUATED: _____
PROPOSED FACILITY: _____ 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

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
AB #5	L 30%	0-6	Br. SCL WSBK	Fri SS/SP (SEXP)	Few SAP Incl.	56"	—	—	P.S. .3
		6-40	Red Clay SBK	F→Fri SS/SP (SEXP)					
		40-56	Red Cly fom WSBK	Fri SS/SP (SEXP)					
AB #6	L 25%	0-32	Red Clay SBK	F→Fri SS/SP (SEXP)	Few SAP Incl.	52"	—	—	P.S. .3
		32-52	Red Cly fom WSBK	Fri SS/SP SEXP					
3									
4									

DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM
Available Space (.1945)		
System Type(s)		
Site LTAR		

OTHER FACTORS (.1946): _____
SITE CLASSIFICATION (.1948): _____
EVALUATED BY: _____
OTHER(S) PRESENT: _____

LEGEND

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	II	SL (Sandy Loam) L (Loam)	0.8 - 0.6	0.4 - 0.3		
	III	SI (Silt) SICL (Silty Clay Loam) CL (Clay Loam) SCL (Sandy Clay Loam) SLC (Silt Loam Clay)	0.6 - 0.3	0.3 - 0.15	**MOIST**	**WET**
	IV	SC (Sandy Clay) SIC (Silty Clay)	0.4 - 0.1	0.2 - 0.05	VFR (Very Friable) FR (Friable) FI (Firm) VFI (Very Firm v. Very Sticky) EFI (Extremely Firm)	NS (Non-sticky) SS (Slightly Sticky) S (Sticky) VS (Very Sticky) NP (Non-plastic) SP (Slightly Plastic) P (Plastic) VP (Very Plastic)
		O (Organic)	None			

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

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