DENR/DEH

ON-SITE WASTEWATER SECTION

Sheet 1 of 3
PROPERTY ID #: 8321
COUNTY: Iredell

SOIL/SITE EVALUATION
for ON-SITE WASTEWATER SYSTEM

OWNER: Koehler
ADDRESS: 1753 Brawley School Rd, Mooresville NC
PROPOSED FACILITY: SFR
LOCATION OF SITE: Same
APPLICATION DATE: July 27 201
DATE EVALUATED: 11/3/15
PROPOSED DESIGN FLOW (.1949): 480 GPD
PROPERTY SIZE: 1.654 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	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
A1	LS 15%	0-6	FILL		DRAINAGE MOTTLES 20"-48"	48"	F-L SAP INCL 34"-48"	/	.25
		6-22	BSCL, WSBK	FR, SS, SP					
		22-36	RSC, WSBK	FR, SS, SP					
		36-48	RCL, WSBK	FR, SS, SP					
A2	LS 13%	0-4	BSL, GR	VFR, SS, SP	DRAINAGE MOTTLES THROUGHOUT PROFILE. CHROMA 2 @ 34"	38"	F-L-M SAP INCL 25"-38"	34"	.225 TO 34"
		4-24	BRSCL, WSBK	VFR, SS, SP					
		24-34	RSCL, WSBK	FR, SS, SP					
		34-38	RYCL, WSBK	FR, S, P					
A3	LS 10%	0-10	BSL, GR	VFR, SS, SP	DRAINAGE MOTTLES 6"-40" CHROMA 2 @ 34" WETNESS @ 34"	48"	F-L SAP INCL 20"-48"	34"	.225 TO 34" .25 BELOW 36"
		10-24	BSCL WSBK	VFR, SS, SP					
		24-36	HEAVY RC WSBK	FI, S, P					
		36-42	RCL, WSBK	FR, SS, SP					

DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM
Available Space (.1945)	EXISTING	1/3
System Type(s)	APPROVED	INNOVATIVE & DRIP
Site LTAR	.25	.225

OTHER FACTORS (.1946): —
SITE CLASSIFICATION (.1948): ER
EVALUATED BY: SL
OTHER(S) PRESENT: Koehler

COMMENTS: Rained 2 DAY Prior & DAY OF EVAL.

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)
	IV	SC (Sandy Clay)	0.4 - 0.1	0.2 - 0.05	FR (Friable)	SS (Slightly Sticky)
		SiC (Silty Clay)			FI (Firm)	S (Sticky)
		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.

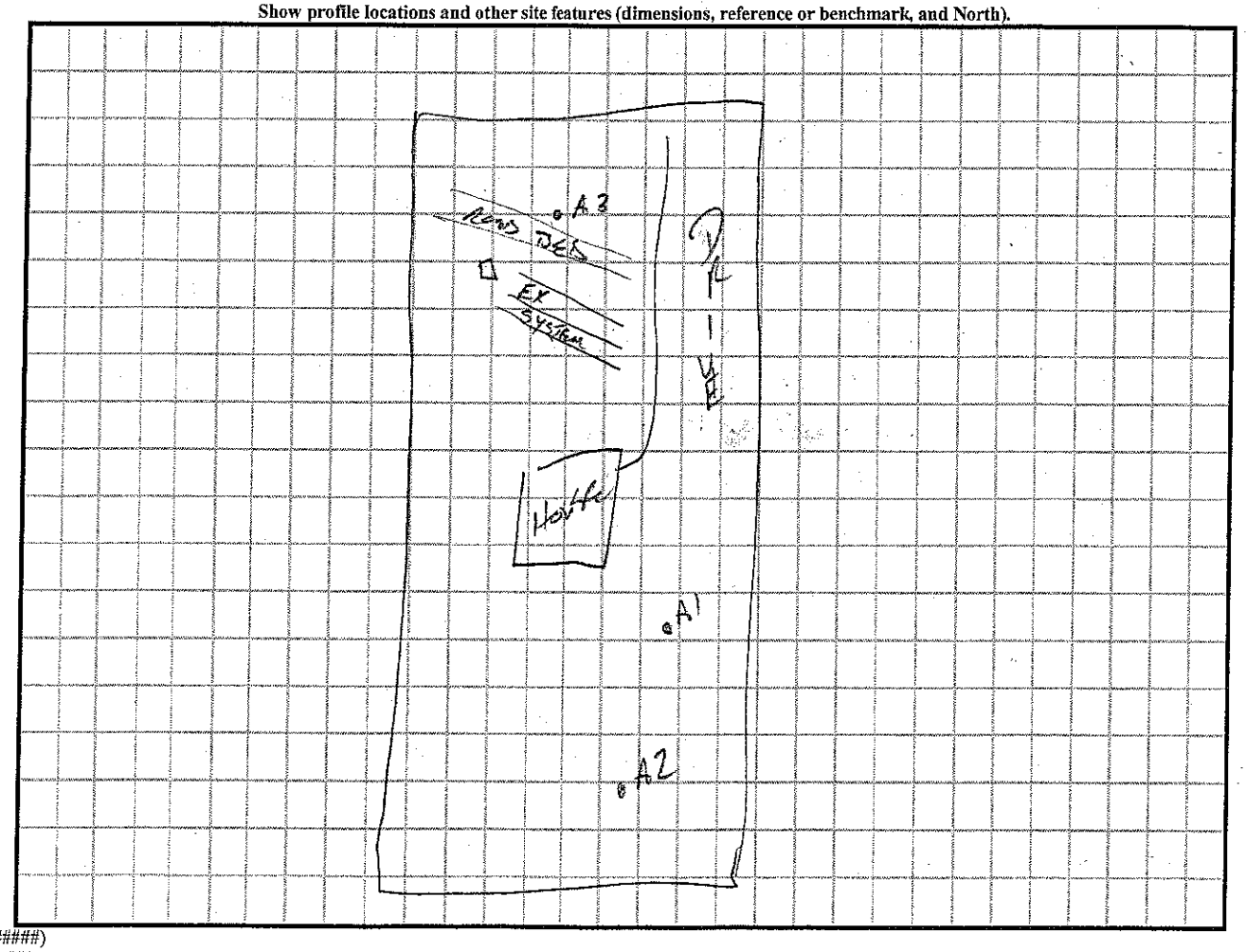
NOTES

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)

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 (#####)

* Soil Notes *

1 inch = 60 feet

1:720

