DENR/DEH

ON-SITE WASTEWATER SECTION

Sheet 1 of 34
PROPERTY ID #: 2976
COUNTY: IREDELL

SOIL/SITE EVALUATION
for ON-SITE WASTEWATER SYSTEM

OWNER: David + Shelia McMillan
ADDRESS: PO Box 9 West Jefferson NC 28694
PROPOSED FACILITY: SFR
PROPOSED DESIGN FLOW (.1949):
LOCATION OF SITE: 106 Brick Kiln Way, Mooresville NC
WATER SUPPLY: ☐ Private ☒ Public ☒ Well ☐ Spring ☐ Other
EVALUATION METHOD: ☐ Auger Boring ☒ Pit ☐ Cut
TYPE OF WASTEWATER: ☒ Sewage ☐ Industrial Process ☐ Mixed

APPLICATION DATE: 9/17/15
DATE EVALUATED: 11/10/15
PROPERTY SIZE: .760 ACRE
PROPERTY RECORDED: —

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	OTHER PROFILE FACTORS .1943 SOIL DEPTH	OTHER PROFILE FACTORS .1956 SAPRO CLASS	OTHER PROFILE FACTORS .1944 RESTR HORIZ	PROFILE CLASS & LTAR
P1	LS 10%	0-10	BSL, GR	VFR, SS, SP	PRP mottles 14-44"	48"	N/A	N/A	.225
		10-32	RC, WABK/SBK	FR, SS, SP					
		32-48	RYCL, ABK	FR, S, P					
P2	LS 10%	0-6	BSL, GR	VFR, SS, SP	DRW mottles 12-40"	48"	F-C SAP INCL 40-46"	N/A	.225
		6-34	RC, WABK	FR, SS, SP					
		34-48	RYCL, WABK	FR, S, P					
P3	LS 10%	0-6	BSCL, WBK	FR, SS, SP	/	60"	C-M SAP INCL 30-60"	N/A	.325
		6-27	RC, SBK	" " "					
		27-60	RCL, SBK/MASS	" " "					
P4	HS 8%	0-6	BSCL, GR	FR, SS, SP	/	46"	PS C-M SAP INCL 20-46"	N/A	.325
		6-24	RC, SBK	" " "					
		24-40	RCL, WSBK	" " "					
		40-64	SL SAP	VFR, SS, SP					

DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM
Available Space (.1945)	PS	PS
System Type(s)	Approved	Approved
Site LTAR	.275	.225

OTHER FACTORS (.1946): —
SITE CLASSIFICATION (.1948): PS

EVALUATED BY: SC
OTHER(S) PRESENT: Ben Aldridge, Mike Testa

COMMENTS: USE Interceptor Drain around P1 & P2
Evaluated 1 day after several days of rain. Observed some water come from sidewall of pit 1.

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.

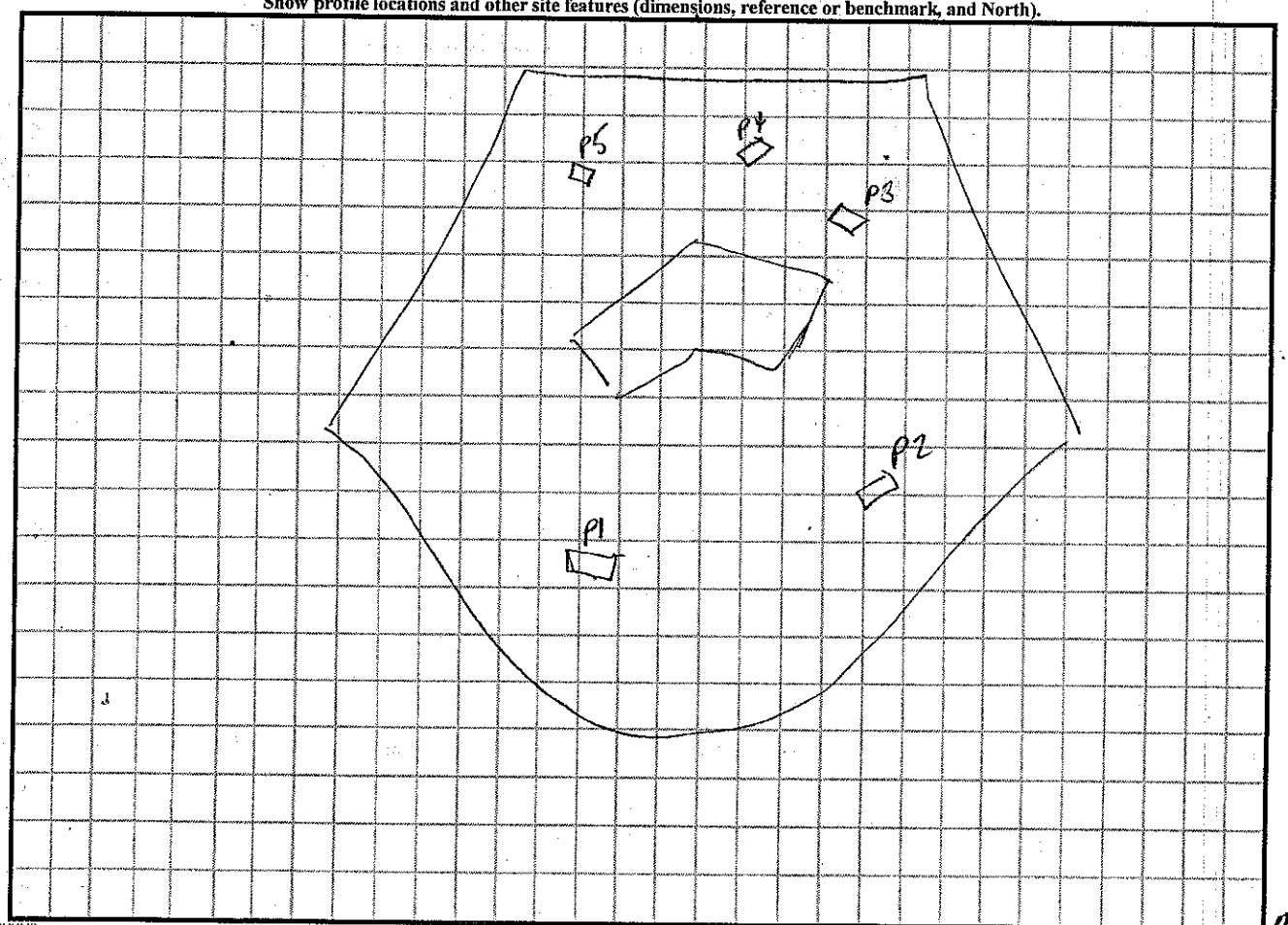
NOTES

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 (#####)

P5

LS
7½

0-9 BSL, GR VFR SS, SP, SD.
9-22 BRCL, MSBK, FR, SS, SP 54"
22-54 BRCL, MSBK FR, SS, SD

MANG INCL.

.275

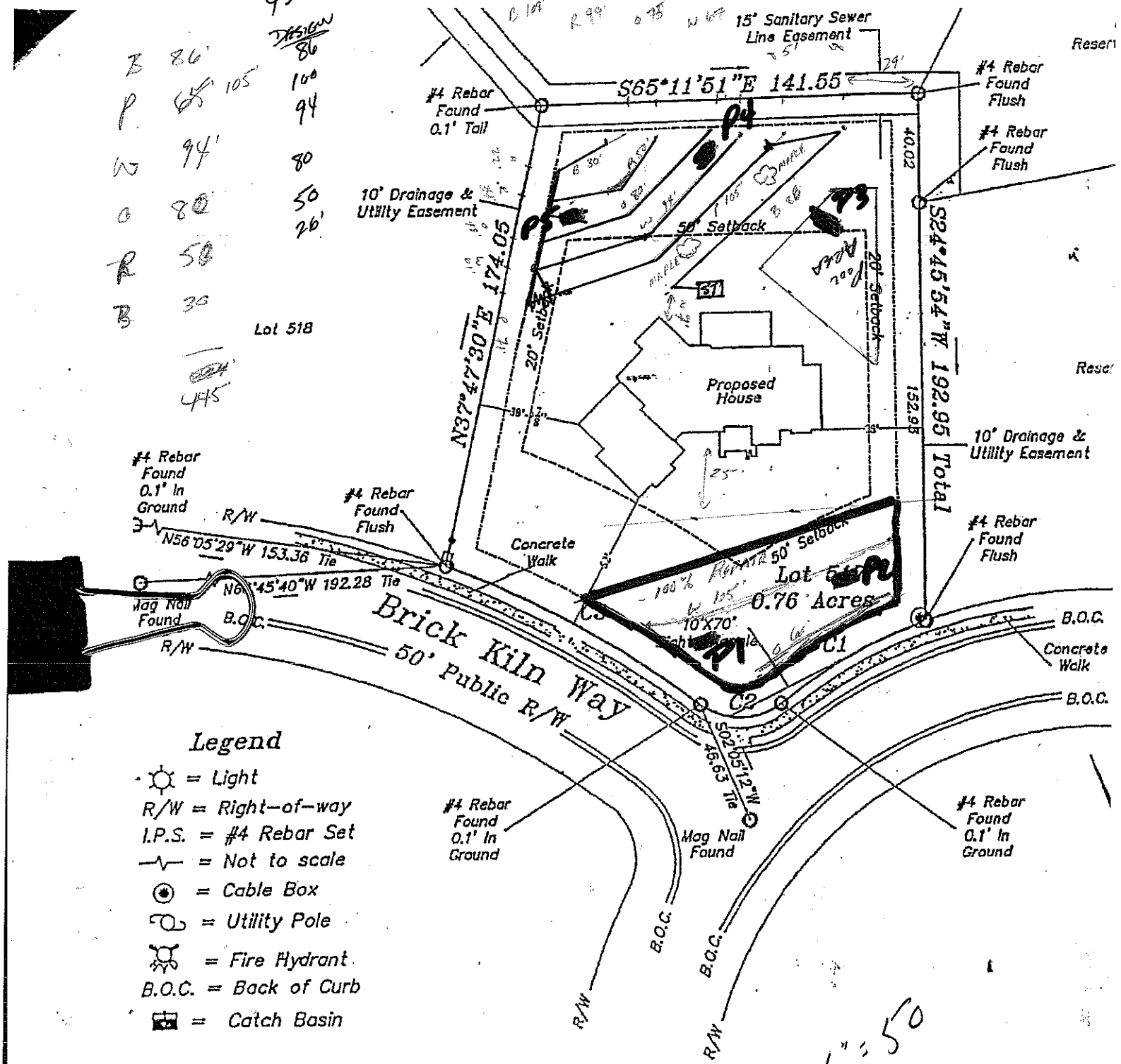
F SAP 22-54

Department of Environment, Health, and Natural Resources
Division of Environmental Health
On-site Wastewater Section

Sheet:
File #: 3/4

SOIL/SITE EVALUATION
for ON-SITE WASTEWATER SYSTEM
CONTINUED

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 (IN.)	.1956 Sapro Class	.1944 Restr Horiz	Profile Class & LTAR
P 5	HS 7%	0-9	BSL, GR	VFR, SS, SP	Some Drainage @ 54"	54"	Some Mark. Incl. F SAP Incl. 30"-54"	N/A	.275
		9-27	BRC, WSBK	FR, SS, SP					
		27-54	BRCL, WSBK	" " "					



Legend

- ☼ = Light
- R/W = Right-of-way
- I.P.S. = #4 Rebar Set
- —∿— = Not to scale
- ◉ = Cable Box
- = Utility Pole
- = Fire Hydrant
- B.O.C. = Back of Curb
- = Catch Basin

Notes:

1) This property may be subject to any Easements, Rights-of-way, and/or Restrictive Covenants.

2) Boundary information based on Plat Book: 33 at Page: 96 as recorded in the Iredell County Register of Deeds.

3) This survey is of an existing parcel or parcels of land.

4) No N.C.G.S. or U.S.G.S. Monuments could be located within 2000'.

5) Area by coordinate method.

6) No Title Commitment was review or provided

GRAPHIC

60 0 30

(IN FE

1 inch =