DENR/DEH

ON-SITE WASTEWATER SECTION

Sheet 1 of 2
PROPERTY ID #: 471243606
COUNTY: Iredell

SOIL/SITE EVALUATION
for ON-SITE WASTEWATER SYSTEM

OWNER: Eric Ward
ADDRESS: 1124 Charlotte Hwy
PROPOSED FACILITY: SFD
PROPOSED DESIGN FLOW (.1949): 360 gpd
LOCATION OF SITE: 125 Atwell Dr.
WATER SUPPLY: • Private • Public • Well • Spring • Other N/A
EVALUATION METHOD: • Auger Boring • Pit • Cut
TYPE OF WASTEWATER: • Sewage • Industrial Process • Mixed

APPLICATION DATE 2-10-15
DATE EVALUATED 3-6-15
PROPERTY SIZE: 1.147
PROPERTY RECORDED: Yes

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
1	6% slight NS	0-4	SBK SCL	Fr SE	+60"	26"	26"	+60"	PS 0.25
		4-16	ABK C	Fr SE					
		16-26	wABK Sap BC Inc	Fi/Fr SE					
		26-60	mass Sap (SC)	Fr N/A					
2	3% L	0-5	SBK SCL	Fr SE	+64"	29"	29"	+64"	PS 0.25
		5-20	ABK C	Fi SE					
		20-29	wABK Sap BC Inc	Fi/Fr SE					
		29-64	mass Sap	Fr N/A					
3	5% slight NS	0-16	ABK C	Fi SE	+60"	28"	28"	28" Sil SAP US	PS 0.175
		16-28	BC wABK	Fr SE					
		28-60	SiL SAP						
4	9% L	0-8	SBK SCL	Fr SE	+60"	+60"	+60"	+60"	PS 0.25
		8-31	ABK C	Fi SE					
		31-60	wABK Sap BC Inc	Fi/Fr SE					

DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM
Available Space (.1945)	PS	PS
System Type(s)	III	IV
Site LTAR	0.25	0.25

OTHER FACTORS (.1946): N/A
SITE CLASSIFICATION (.1948): PS
EVALUATED BY: Justin Henderson; Adrian Pruett
OTHER(S) PRESENT: N/A

COMMENTS:

SOIL/SITE EVALUATION

(Continuation Sheet-Complete all field in full)

DEPARTMENT OF HEALTH AND HUMAN SERVICES
DIVISION OF PUBLIC HEALTH
ENVIRONMENTAL HEALTH SECTION
ON-SITE WATER PROTECTION BRANCH

PROPERTY ID #: 4712430606
DATE OF EVALUATION: 4-6-15
COUNTY: Iredell

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
5	Ridge	0-5	SCL SBK	Fr Mod SE	+60"	34"	34"	+60"	PS 0.25
		5-19	C ABK	Fr Mod SE					
		19-34	BC SAP Incl WABK	Fr Mod SE					
		34-60	SCL SAP M	Fr					
6	Ridge	0-20	C ABK	Fr Mod SE	+60"	48"	48"	+60"	PS 0.25
		20-48	BC SAP Incl WABK	Fr Mod SE					
		48-60	L SAP M	Fr					
		< 50% Rock	Present in						
		this Pit	(Rock Inclusion on 1 Pit wall)						
7	Ridge	0-14	SCL SBK	Fr Mod SE	+60"	36"	36"	+60"	PS 0.25
		14-18	C ABK	Fr Mod SE					
		18-36	BC WABK	Fr Mod SE					
		36-60	SCL SAP M						
		SAP horizon occurs @ variable depths in Pit							
8	Ridge	0-6	SCL SBK	Fr Mod SE	+60"	33"	33"	+60"	PS 0.3
		6-20	C ABK	Fr Mod SE					
		20-33	BC SAP Incl WABK	Fr Mod SC					
		33-60	SCL SAP M	Fr					

COMMENTS:

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)			MOIST	WET
R (Ridge)		SCL (Sandy Clay Loam)				
S (Shoulder Slope)		SiL (Silt Loam)			VFR (Very Friable)	NS (Non-sticky)
T (Terrace)					FR (Friable)	SS (Slightly Sticky)
	IV	SC (Sandy Clay)	0.4 - 0.1	0.2 - 0.05	FI (Firm)	S (Sticky)
		SiC (Silty Clay)			VFI (Very Firm v. Very Sticky)	VS (Very Sticky)
		C (Clay)			EFI (Extremely Firm)	NP (Non-plastic)
		O (Organic)	None	None		SP (Slightly Plastic)
						P (Plastic)
						VP (Very Plastic)

*Adjust LTAR due to depth, consistence, structure, soil wetness, landscape, position, wastewater flow and quality.

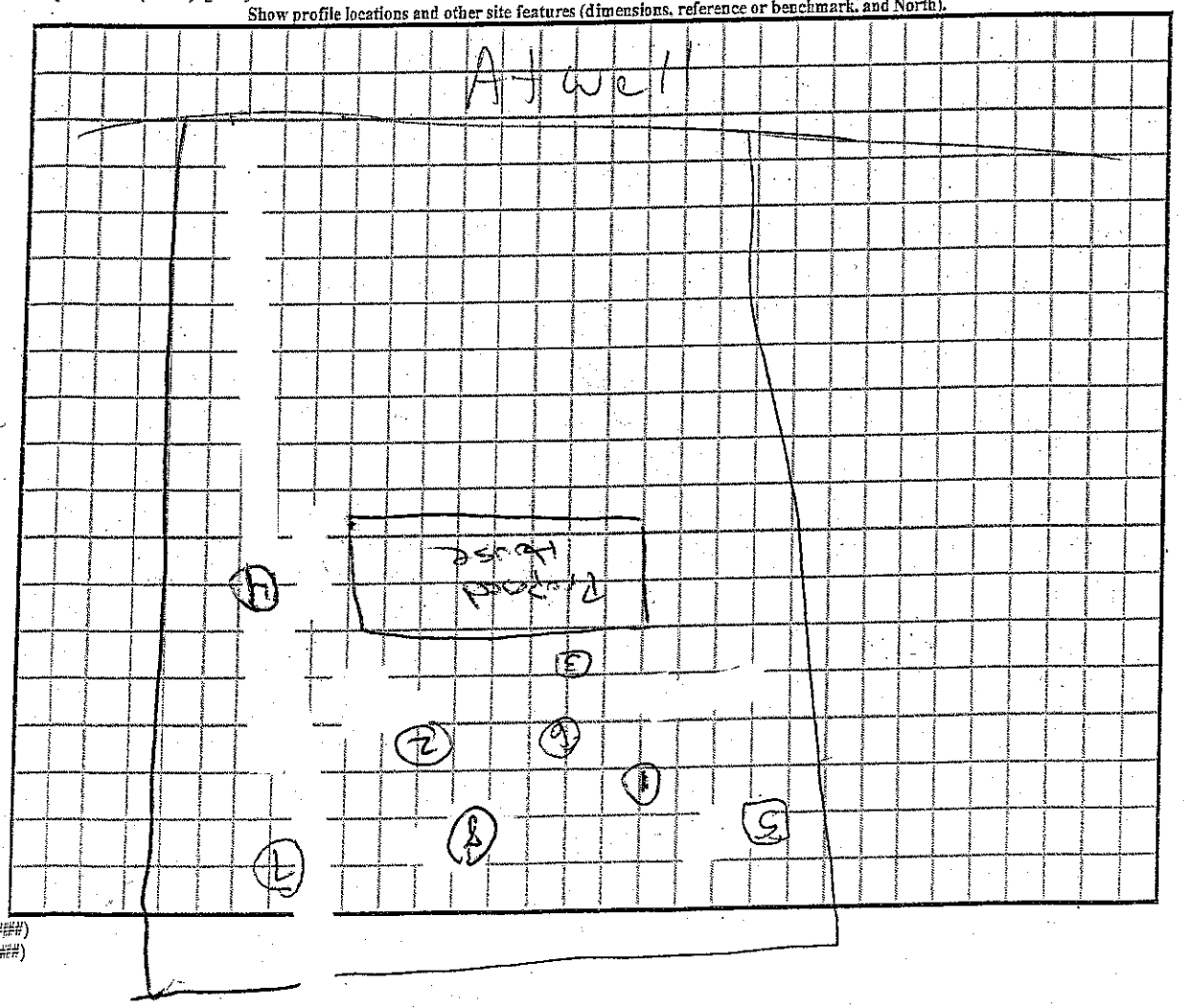
NOTES

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)

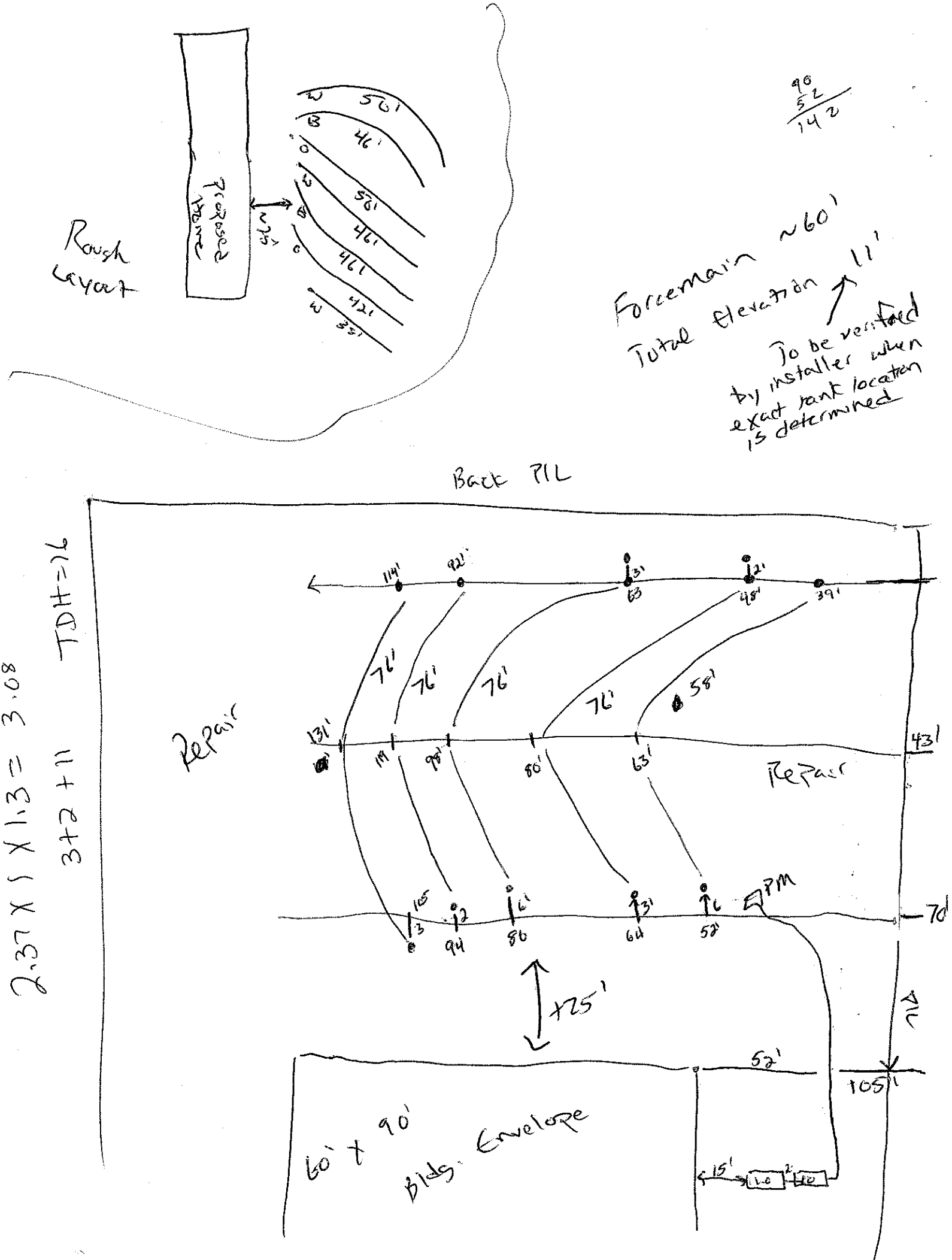
Evaluation of saprolite shall be by pits.

Long-term Acceptance Rate (LTAR): gal/day/ft^2

Show profile locations and other site features (dimensions, reference or benchmark, and North).



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


Rough Layout
Proposed Home
~25'
561
46'
58'
46'
46'
42'
33'
90
52
142
Forcemain ~60'
Total Elevation
11'
To be verified by installer when exact tank location is determined
Back PIL
2.37 x 1.3 = 3.08
TDH=26
3+2+11
Repair
114'
92'
31'
63'
21'
48'
39'
76'
76'
76'
76'
58'
131'
19'
98'
80'
63'
43'
Repair
105'
94'
86'
64'
52'
PM
70'
+25'
52'
105'
PIL
60' x 90'
Bldg. Envelope
15'
10'
10'