ICHD - ENVIRONMENTAL HEALTH DIVISION

Statesville Office (704) 878-5305 x3456 | Mooresville Office (704) 660-3625

MANF - 284-99663

SWP PERMIT #: OSWP 2024 - 49204

SEPTIC: IMPROVEMENT PERMIT / AUTHORIZATION TO CONSTRUCT / OPERATION PERMIT / EXISTING SYSTEM

PIN # 4705 - 85 - 5799

APPLICANT/OWNER: Teresa Brower | APPLICANT ADDRESS: 1400 Hwy 9 Bypass Lancaster SC

SITE ADDRESS: 145 Zircon Dr., Statesville 28625 | PHONE: 803-379-2277 | ALT. PHONE: —

SITE DIRECTIONS: (W) 64 → (L) Lippard Farm - (L) Stones Edge - (L) Gemstone - (R) Zircon - Lot (C)

SAP CONTROLLED: ☑ YES ☐ NO

SUBDIVISION: Stones Edge | SECTION: - | LOT # 33 | LOT AREA: 1.56 | DESIGN FLOW: 360gpd | L.T.A.R.(Initial): .3 | L.T.A.R (Repair): .3

Septic Tank 1000 (gal) STB Date

Pump Tank 1000 (gal) PT Date

Pump Make Model Serial #

Nitrification Fields 1 # Lines 4 Linear Ft 300'

Trench Width 36" *Max. Trench Depth(Initial) 28" *Max. Trench Depth(Repair) Gravel Depth —

* Measured on the downhill side of the trench

Effluent Standard: ☑ DSE ☐ HSE ☐ TS-I ☐ TS-II ☐ RCW ☐ NSF/ANSI 40

☑ New System ☐ Repair ☐ Expansion System Type: I II (III) IV V VI

System Description: 25% Reduction

Repair System Description: 50% Reduction

Maintenance Agreement Required: ☐ YES ☑ NO

☐ GRAVITY ☑ PRESSURE

Usable Depth to LC (Initial): 52"

☑ Residence ☐ Business ☐ Other ☐ Slab ☐ Basement w/plumbing

No. Bedrooms 3 | No. Persons 6 | No. Employees — | ☑ Crawl Space

☐ Basement w/o plumbing

Usable Depth to LC (Repair): 55" *Limiting Condition*

Water Supply: ☐ Private ☑ Public ☐ Community

Comments / Conditions: Do not pave, grade, park, drive or bury utilities in drainfield area. Install on contour, divert all drainage from drainfield. Keep water lines 10' from system. Stay 15' off gullies w/ drainlines, tanks, & 10' w/ supply lines. Keep tanks far enough away to avoid cuts >2'.

INITIAL SITE SKETCH

See attached site plan by ICHD

AS BUILT SKETCH

FOR SEPTIC FINAL INSPECTION CALL: 704-664-3703 between 8am-9am

the day the inspection is needed. Be sure to speak with an inspector to confirm your time.

Tank placement may be adjusted as long as all set backs from foundation & gullies are met.

House moved back 45' no

retaining wall allowed along back of house.

*Needs electrical

PH
PM
Alarm } 12/10/24 → SH

* see attached as built *

Permit can be suspended or revoked if any false information is supplied toward securing the permit / any unauthorized changes are made to the site / any unauthorized changes are made in the installation of the system. **CONTACT A LOCATOR SERVICE PRIOR TO ANY EXCAVATION**

☐ **IMPROVEMENT PERMIT** *with plat valid without expiration.* ☑ **IMPROVEMENT PERMIT** *with site plan valid for 60 mos.* ☑ **AUTHORIZATION TO CONSTRUCT** *valid for period equal to IMPROVEMENT PERMIT--not to exceed 60 mo.*

Owner / Applicant Signature: Online | Date: —

IMPROVEMENT PERMIT by: Sydney Holland | Date: 3/27/24

AUTHORIZATION TO CONSTRUCT by: Sydney Holland | Date: 3/27/24

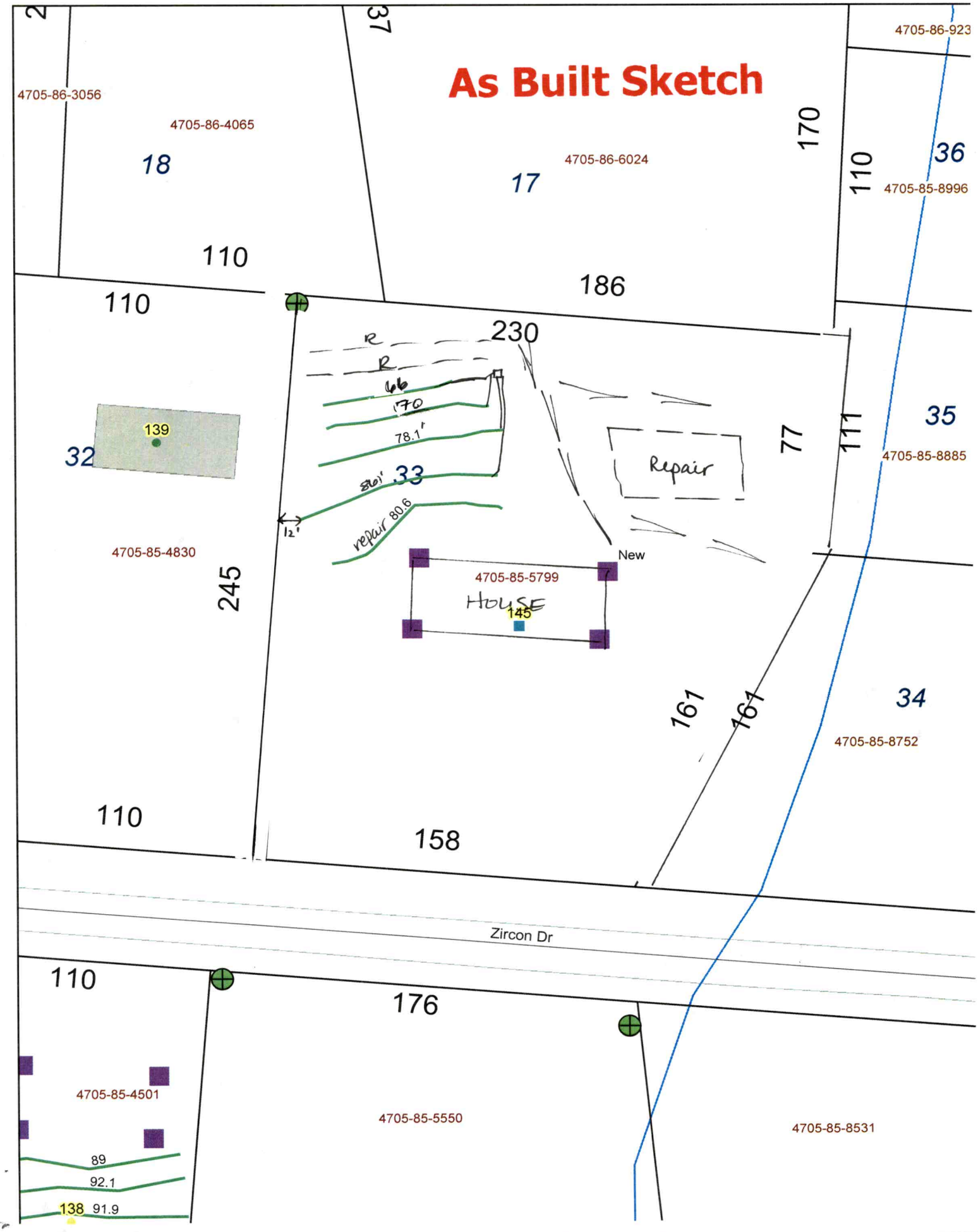
Installed by: Chad Gainer

OPERATION PERMIT by: Sarah Williams | Date: 1/29/25

Existing System Inspected by: | Date:

Item	Date	Initials
Drain Lines Checked	10/14/24	DW
Tanks Checked	10/16/24	DW
Pressure Manifold or Valve Box Checked	10/14/24	DW
Pressure Head Set	12/10/24	SH
Electrical Checked		
Floats Set	10/16/24	DW
Alarm Checked	12/10/24	SH
Maintenance Contract Needed? Y (N)		
Comments:		
Verify slope <50% at back of house		

Repairs Only	
	State Code
Failing System Code	
Type of Distribution	G or P
Type of Failure/Malfunction	
Primary Cause of Failure/Malfunction	
Age of System? _____	
Initial or Repair? _____	


As Built Sketch
4705-86-3056
4705-86-4065
18
4705-86-6024
17
4705-86-923
36
4705-85-8996
35
4705-85-8885
34
4705-85-8752
32
139
33
4705-85-4830
4705-85-5799
HOUSE
145
New
Repair
R
R
66
170
78.1'
80.1'
repair 80.6
12'
2
37
170
110
110
110
186
230
77
111
245
161
161
158
110
110
176
Zircon Dr
4705-85-4501
4705-85-5550
4705-85-8531
89
92.1
138
91.9

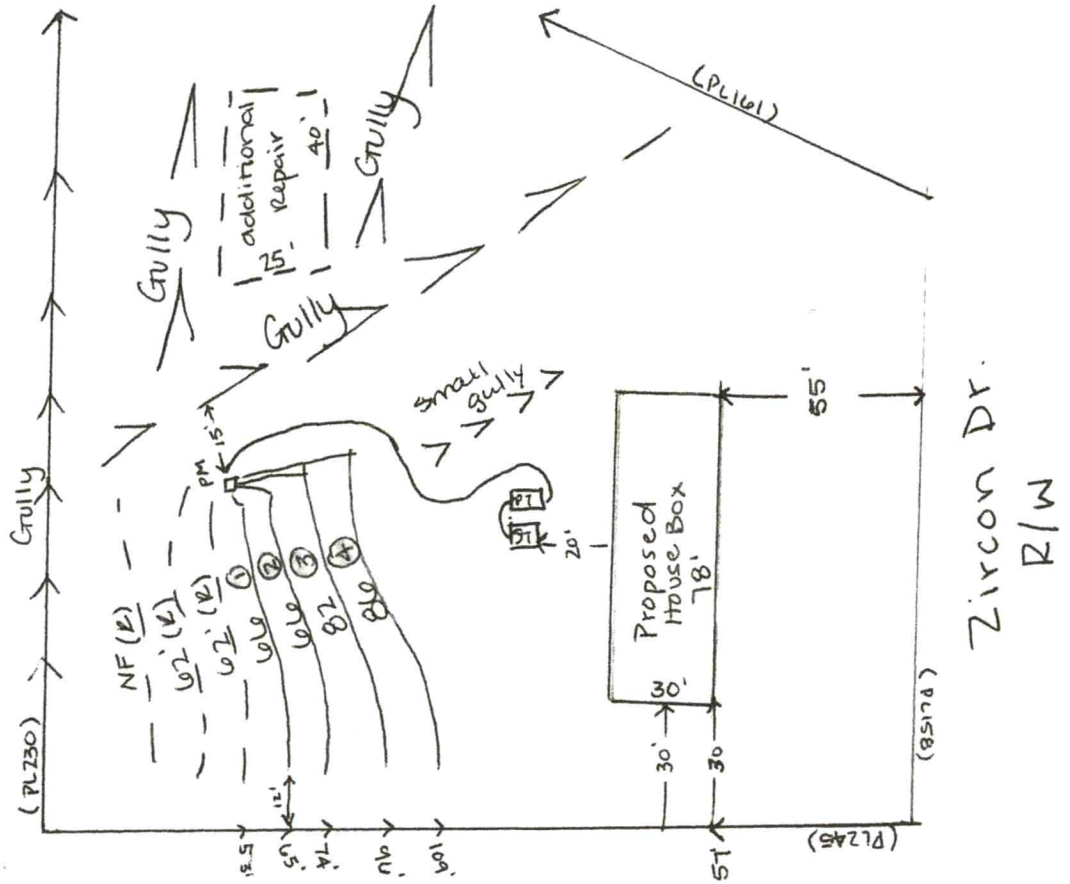
As Built Sketch

1" = 50'

Pressure manifold: 2" supply; 2" pressure head

Lines 1 & 2 = 1/2 sch 80 taps
3 & 4 = 1/2 sch 40 taps

Dose: 136.5 g
Flow: 25.18 gpm
R.T: 5.4 min.
D.D: 6.5"



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SUBDIVISION: Stones Edge | SECTION: — | LOT # 33 | LOT AREA: 1.156 | DESIGN FLOW: 360gpd | L.T.A.R.(Initial): .3 | L.T.A.R (Repair): .3

Septic Tank	1000 (gal)	STB	Date	☑ New System ☐ Repair ☐ Expansion	System Type: I II (III) IV V VI	☑ Residence	No. Bedrooms 3
Pump Tank	1000 (gal)	PT	Date	System Description: 25% Reduction		☐ Business	No. Persons 6
Pump Make		Model	Serial #	Repair System Description: 50% Reduction		☐ Other	No. Employees
# Nitrification Fields	1	# Lines 4	Linear Ft 300'	Maintenance Agreement Required: ☐ YES ☑ NO		☐ Slab	☑ Crawl Space
Trench Width 36"	*Max. Trench Depth(Initial) 28"	*Max. Trench Depth(Repair)	Gravel Depth —	☐ GRAVITY ☑ PRESSURE		☐ Basement w/plumbing	☐ Basement w/o plumbing

Water Supply: ☐ Private ☑ Public ☐ Community

* Measured on the downhill side of the trench | Effluent Standard: ☑ DSE ☐ HSE ☐ TS-I ☐ TS-II ☐ RCW ☐ NSF/ANSI 40 | Usable Depth to LC (Initial): 52" | Usable Depth to LC (Repair): 55" | *Limiting Condition*

Comments / Conditions: Do not pave, grade, park, drive or bury utilities in drainfield area. Install on contour, divert all drainage from drainfield. Keep water lines 10' from system. Stay 15' off gullies w/ drainlines, tanks, & 10' w/ supply lines. Keep tanks far enough away to avoid cuts >2'

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See attached site plan by ICHD

AS BUILT SKETCH

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the day the inspection is needed. Be sure to speak with an inspector to confirm your time.

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Owner / Applicant Signature: Online | Date: — | Installed by:

IMPROVEMENT PERMIT by: Sydney Holland | Date: 3/27/24 | OPERATION PERMIT by: | Date:

AUTHORIZATION TO CONSTRUCT by: Sydney Holland | Date: 3/27/24 | Existing System Inspected by: | Date:

Item	Date	Initials
Drain Lines Checked		
Tanks Checked		
Pressure Manifold or Valve Box Checked		
Pressure Head Set		
Electrical Checked		
Floats Set		
Alarm Checked		
Maintenance Contract Needed? Y / N		
Comments:		

Repairs Only	
	State Code
Failing System Code	
Type of Distribution	G or P
Type of Failure/Malfunction	
Primary Cause of Failure/Malfunction	
Age of System? _____	
Initial or Repair? _____	

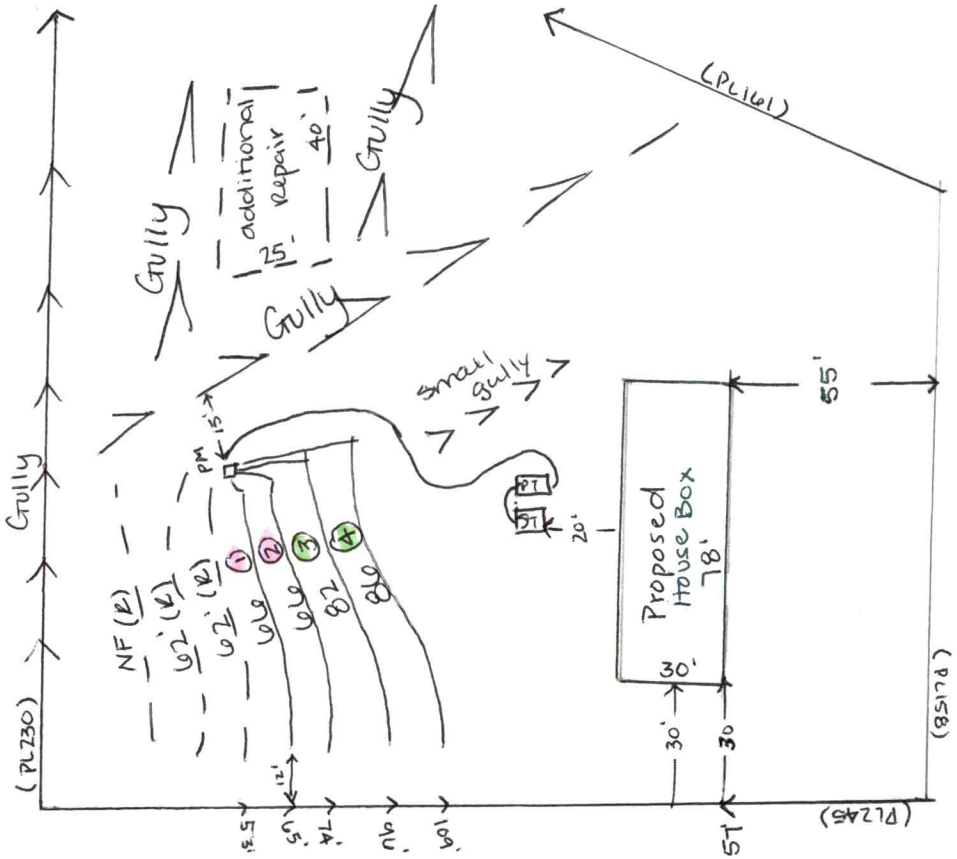
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Flow : 25.18 gpm
R.T : 5.4 Min.
D.D : 6.5"



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

Sheet 1 of 1
PROPERTY ID #: 4705865779
COUNTY: Iredell

SOIL/SITE EVALUATION
***for* ON-SITE WASTEWATER SYSTEM**
(Complete all fields in full)

OWNER: Stone Edge Inc — APPLICATION DATE 3/2/22
ADDRESS: 2200 Old Salisbury Concord NC 28025 362 — DATE EVALUATED: 3/18/22
PROPOSED FACILITY: 4BR3 — PROPOSED DESIGN FLOW (.1949): 450 gpd — PROPERTY SIZE: 1.52e
LOCATION OF SITE: 145 Zircon Dr. Statesville 28625 — PROPERTY RECORDED: yes
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
1	LS 18	0-5	SCL - SBK	SSSP-FR-SEXP	N/A	35"	L/SL	N/A	PS
		5-18	C - SBK/ABK	↓					
		18-35	CL - WSBK	SSP					
		35-62	SAP-L/SL-M → L	SSNP-FR	heavy mica throughout				0.3
2	LS 18	0-7	CL - SBK	SSSP-FR-SEXP	N/A	(52")	L	N/A	PS
		7-18	C - SBK	↓					
		18-40	CL - WSBK	↓					
		40-52	L - WSBK	SSNP-FR SEXP					0.3
		52-60	SAP-L-M	SSNP-FR					
3	LS 18	0-4	SCL - SBK	SSSP-FR-SEXP	N/A	(52")	L	N/A	PS
		4-24	C - SBK	↓					
		24-42	CL - WSBK	↓					
		42-52	L - WSBK	SSNP-FR SEXP	sapro mica common 24"+				0.3
		52-60	SAP-L-M	SSNP-FR					
4	LS/NS 25%	0-6	SCL - SBK	SSSP-FR-SEXP		(55")	N/A	N/A	PS
		6-16	C - SBK	↓					
		16-33	SCL - WSBK	↓	heavy sap content 16"+				0.3
		33-55	L - WSBK	SSNP-FR					

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

OTHER FACTORS (.1946):
SITE CLASSIFICATION (.1948): PS
EVALUATED BY: D. Nieberg
OTHER(S) PRESENT: J. Williams

COMMENTS: Complex topo, wooded lot → available space will be restricted due to gullies

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	SEXP (Slightly Expansive)	G (Single Grain)
CV (Convex Slope)		LS (Loamy Sand)			EXP (Expansive)	M (Massive)
D (Drainage Way)						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/ft²

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

