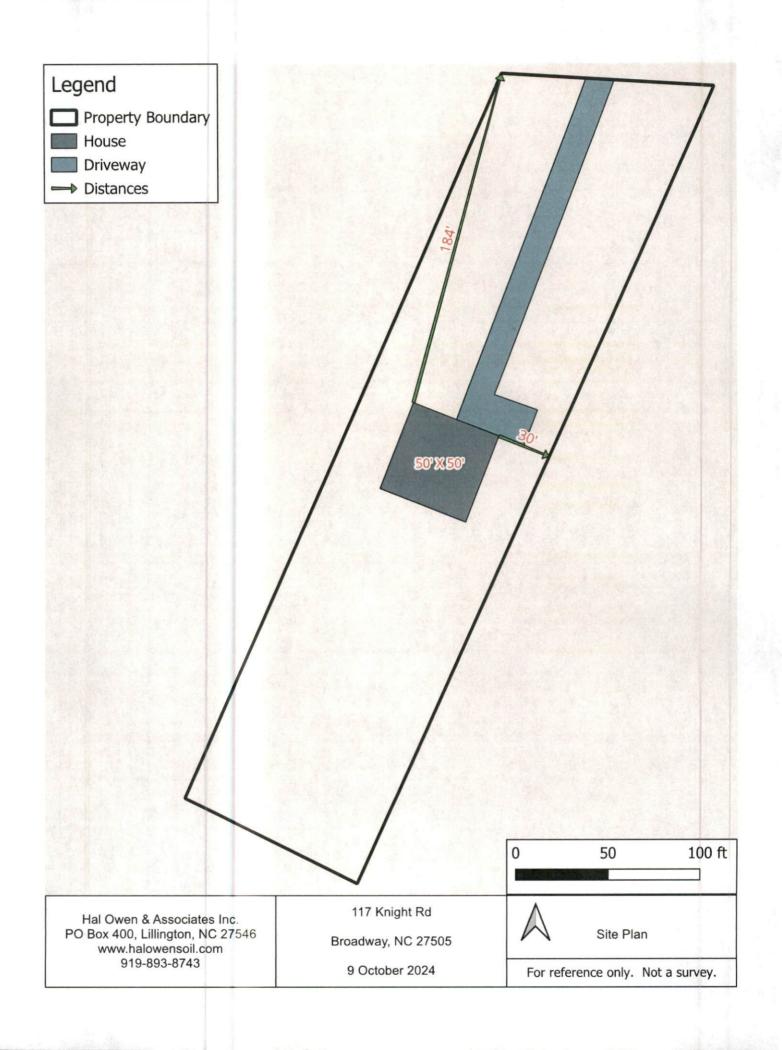


North Carolina Onsite Wastewater Contractor Inspector Certification Board Authorized Onsite Wastewater Evaluator Permit Option for Non-Engineered Systems Notice of Intent (NOI) to Construct

Owner or Legal Representative Information: Name: Jose and Carmela Rubio
Mailing address: 1041 Rosser Pittman Rd City: Broadway State: NC Zip: 27505
Phone: 919-356-9933 Email: ricardo.8777@yahoo.com
Authorized Onsite Wastewater Evaluator Information:
Name: Hal Owen Certification #: 10036E
Mailing address: PO Box 400 City: Lillington State: NC Zip: 27546
Phone: 910-893-8743 Email: hal@halowensoil.com
Site Location Information: Site address: 117 Knight Rd, Broadway, NC 27505 Tax parcel identification number or subdivision lot, block number of property: PIN 9680-69-1479.000, Lot 4 County: Harnett
System Information: Wastewater System Type: Illbg (Pump to Accepted Status 25% reduction) Daily Design Flow:360 gpd Saprolite System:YesX_No
Facility Type: X Residential 3 # Bedrooms 6 Maximum # of Occupants
Business Type of Business and Basis for Flow:
Public Assembly Type of Public Assembly and Basis for Flow:
Required Attachments:
Attest: On this the 9 day of October 2024 by signature below I hereby attest that the information required to be included with this NOI to Construct is accurate and complete to the best of my knowledge. Furthermore, I hereby attest that I have adhered to the laws and rules governing onsite wastewater systems in the state of North Carolina. This NOI shall expire on 9 day of October , 2029 Signature of Authorized Onsite Wastewater Evaluator:
Signature of Owner or Legal Representative:
Disclosure: The owner may apply for a building permit for the project upon submitting a complete NOI to Construct and the fee required (if any) to the local health department. An onsite wastewater system authorized by an authorized onsite wastewater evaluator shall be transferable to a new owner with the consent of the authorized onsite wastewater evaluator.
Local Health Department Receipt Acknowledgement: Signature of Local Health Department Representative: Date: //- 29



HAL OWEN ASSOCIATES www.halowensoil.com

# HUA-AUVE-2403-14	#	HOA-AOWE-2409-14	
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Issue date 10/9/2024

Expiration 10/9/2029

APPLICANT INFORMATION

Name	Jose and Carmela Rubio					
Mailing Address	1041 Rosser Pittman Rd, Broadway, NC 27505					
E-mail Address	ricardo.8777@yahoo.com	Telephone Number	919-356-9933			

PROPERTY IDENTIFIERS

County	Harnett	PIN	9680-69-1479.000
Size (Acre)	1.52	County PID	
Site Address	117 Knight Rd, Broadway, NC 27505		
S/D Name and Lot#	Lot 4		

PROJECT INFORMATION

Wastewater System	New		.0403 Eng Low Flow	No
/astewater Strength Domestic		Effluent Standard	DSE	
Facility Type	Residential		Water Supply	Public Water
Design Wastewater Flow	360	gpd	gal/unit	120
Basis for Flow	3	bedrooms	max occupancy	6
Basement	No		Fixtures in basement?	No
Crawl Space	Yes		Slab Foundation	No

CONSULTANT INFORMATION

Company Name	Hal Owen & Associates, Inc.		
Mailing Address	PO Box 400, Lillington, NC 27546		
E-mail Address	hal@halowensoil.com	Telephone Number	910-893-8743
Licensed Soil Scientist	Britt Wilson, LSS#1351	AOWE	Hal Owen, #10036E

A soil and site evaluation has been conducted for the referenced property for the purpose of permitting a subsurface wastewater system. This evaluation was prepared based on information provided by the applicant to include the basis for design flow, proposed structure location(s), and property boundaries. Any false, inaccurate, or incomplete information provided by the applicant, owner, or legal representatives may result in denial or revocation of applications, approvals, or permits.

This AOWE Evaluation is being submitted pursuant to and meets the requirements of G.S.130A-336.2. This evaluation includes a soil and site evaluation, specifications, plans, and reports for the site layout and construction of a proposed onsite wastewater system by an Authorized On-Site Wastewater Evaluator (AOWE). The evaluation of soil conditions and site features is provided in accordance with G.S. 130A-335(e), the Rules for "Wastewater Treatment and Dispersal Systems", 15A NCAC 18E, and local septic regulations (if any). This report represents my professional opinion as a Licensed Soil Scientist and Authorized Onsite Wastewater Evaluator.









#	HOA-AOWE-2409-14	
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WASTEWATER SYSTEM DESIGN SPECIFICATIONS

Proposed Design Daily Flow	360	gpd	Drainfield Meeets Requirements:		
Septic Tank Size (minimum)	1000	gallons	.0508 Available Space	Yes	
Pump Tank Size (minimum)	1000	gallons, if required	.0601 Setbacks	Yes	

Initial System

System Type	IIIbg -Pump to	Other no	n-convention	al systems		
Pump Required	Yes			12.1 ft TDH at	27.3	GPM
Trenches:	Accepted (25°	% reductio	n) System			
Design LTAR		0.35	gal/day/ft ²	Sapro	lite System	No
Total Trench/ Bed Length		260	feet		Fill System	No
Trench Spacing		9	ft on center	•	-	9.
Usable soil depth to LC		34	inches			
Maximum Trench Depth		18	inches, measured on downhill side of trench			
Minimum Soil Cover		6	inches			
Artificial Drainage Required		No				

Repair System

Jan Oystein						
System Type:	IIIbe - Pump	to PPBPS	system			
Pump Required	Yes	-				
Trenches:	PPBPS, horiz	ontal				
Design LTAR		0.35	gal/day/ft²	Saprolite System	No	
Total Trench/ Bed Length		171	feet	Fill System	No	
Trench Spacing		9	ft on center	_		
Usable soil dept	h to LC	32	inches			
Maximum Trench Depth of		16	inches, measured on downhill side of trench			
Minimum Soil Co	over	6	inches			

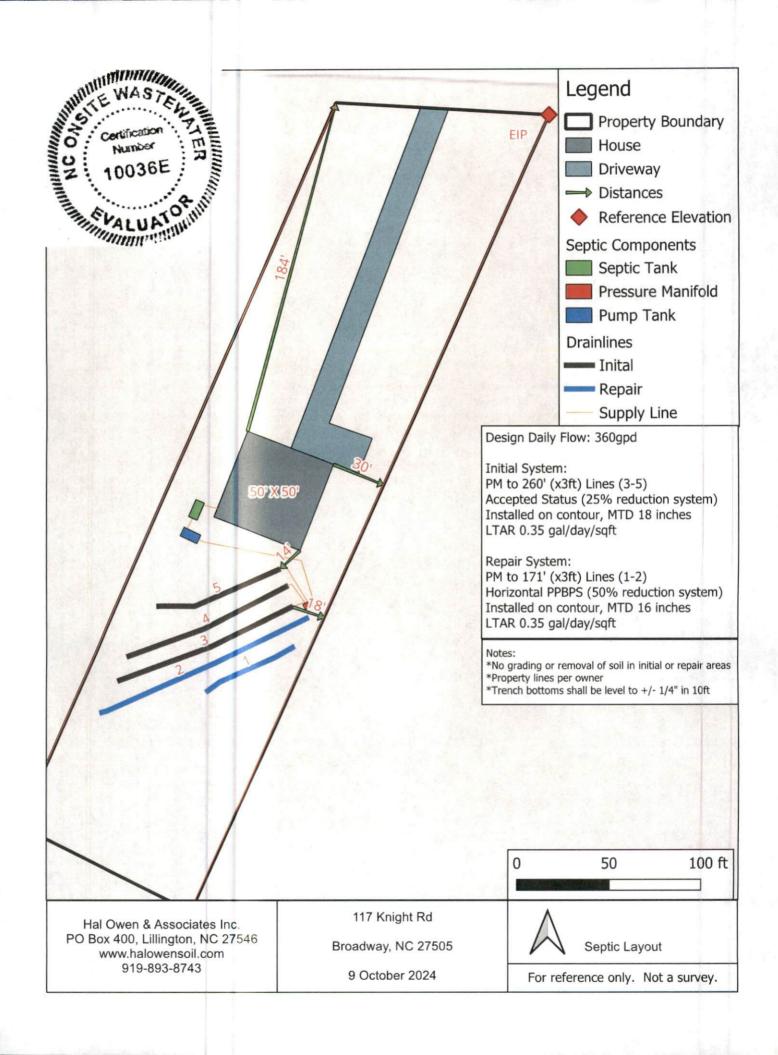
Potential Drainlines flagged at site on 9-ft centers.

		Relative	Drainline	Field			
Line #	Color	Elevation (ft)	Length(ft)	Length(ft)			
1	Υ	102.03	50		Repair		
2	R	101.46	121		l g		
3	В	101.20	100		7		
4	W	100.92	92		Initial		
5	Υ	100.60	68		<u> </u>		
Septic T	ank:	98.88			•		
Pump Ta	ank:	99.35	1	Notes:			
Referenc	e Elev:	100.00	1	*No grading or removal of soil in initial or repair area			
			-	*Property line	s per own	er	

^{*}Property lines per owner

^{*}Trench bottoms shall be level to +/- 1/4" in 10ft

^{*}All parts of septic system must meet minimum setbacks



INITIAL WASTEWATER SYSTEM

Pressure Manifold Design Criteria							
DESI	GN DAILY	FLOW	360	gallons/day	SOIL LTAR:	0.35	gpd/ft ²
TANK	(S (min)	Septic Tank:	1000	gallons	Pump Tank:	1000	gallons
SUPF	LY LINE	Length:	80	ft	Diameter:	2	" SCH 40 PVC
Minim			n flow (gpm) to	maintain 2fps s	cour velocity:	20.9	gpm
TREN	ICHES	Drainline Type:	Accepted (25%	reduction) Syst	em		
		Maximum 7	French Depth of 18 inches, measured on low side of trench				
		Trench width:	3		Effective Trend	ch Width:	ft
	Ab	sorption Area:	771	ft ²	Minimum Line	ar Length:	ft
MAN	FOLD	Length (ft):		•			Elevation: 102.2
		# Taps	3	Tap Configura	tion: 6in. spac	ing, 1 sid	e of manifold
TAP	CHART						
	~ .	Relative		Tap Size/	flow/tap		LTAR
Line	Color	Elevation	Length(ft)	Schedule	gpm	gpd/ft	(gpd/ft ²)
3	В	101.2	100	3/4"sch 80	10.10	1.331	0.444
4	W	100.92	92	3/4"sch 80	10.10	1.447	0.482
5	Υ	100.6	68	1/2"sch 40	7.11	1.378	0.459
-		-1-1 D1-1	200	Takal Flaur	27.24		
	1	otal Drainline:	260	Total Flow:			0.47
РИМ	P CALCUL	ATIONS				get LTAR*: TAR + 5%:	
	Volume:		gallons, with Pip	e Volume at			*65.3gal/100ft pipe
		Time (min):	4.66		Pump Run Tir		
	down (in.):		gallons ÷	20.25			
	Tank Elev		99.35		Elevation (ft):		***
	on Head:		*Hazen Williams Fo				- pump tank)
	tion Head:	7.9		, , , , ,			
Desig	n Head:	2.0		Total	Dynamic Hea	ad (TDH):	12.09 ft
							5.00-00100-00100-000 .
Pump	to Deliver:	12.1	ft TDH @	27.3	gpm		
NEM	4X Simple	ex Control Pan	el with elapsed t	ime meter, eve	nt counter, au	dible and	visible alarm (w/
silend	e button), h	nand-off-autom	atic (HOA) switch	h, pump run lig	ht, and pump	on separ	ate circuits is required
Contr	ol panel bo	ttom shall be m	ou <mark>nted a minim</mark>	um of 24 in. ab	ove finished g	rade with	in 50 ft of pump tank.
A sep	tic tank filte	er is required. F	loats to be deter	rmined by type	of pump tank	used.	
	Possible	e Septic Tank:	Brantley 1000 S	TB-502	Possible Se	ptic Filter:	
	Possible	e Pump Tank:	Brantley 1000_F	PT-237	Vol(gal):	1000	GPI: 20.25
	Po	ossible Pump:			pump hei	ght (in) =	14
		Control Panel:					

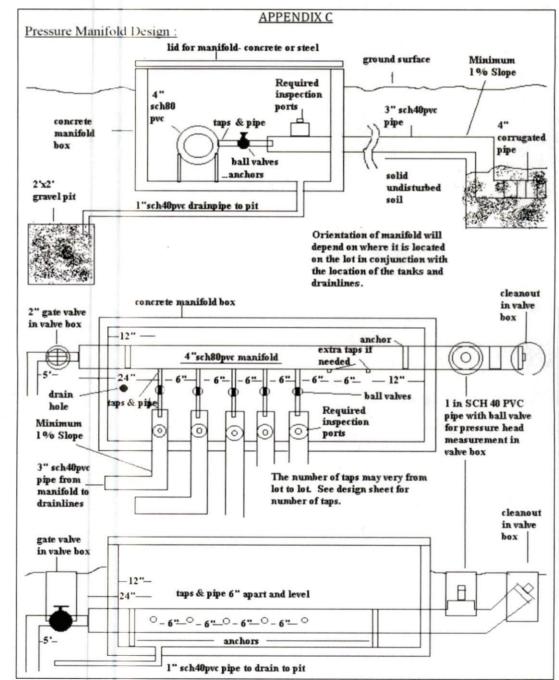
INITIAL WASTEWATER SYSTEM

Pressure Manifold Diagram

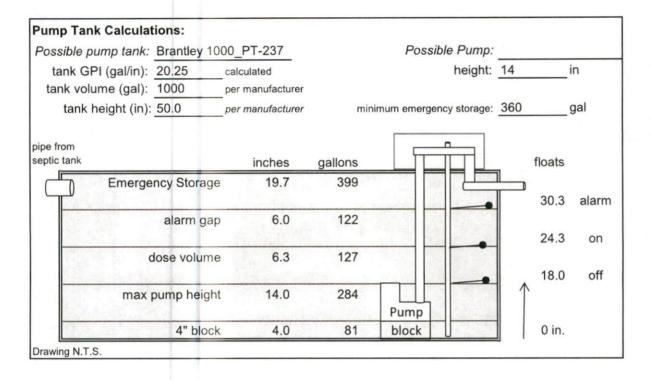
Tap #	1	2	3	
tap size	3/4"sch 80	Manifold 3/4"sch 80	4"SCH 80 PVC 1/2"sch 40	
flow (gpm)	10.10	10.10	7.11	
length (ft)	100	92	68	

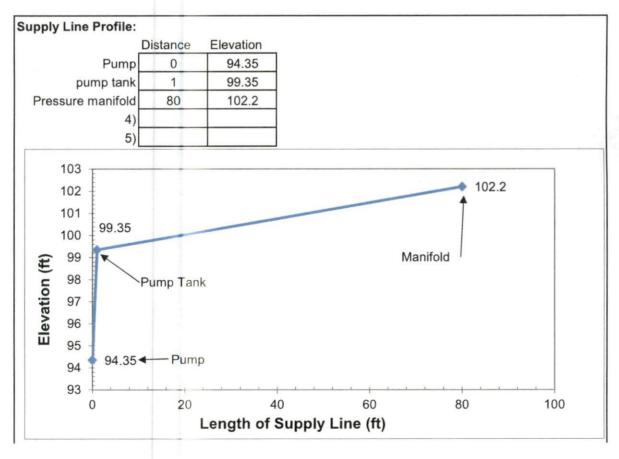
Typical

1.



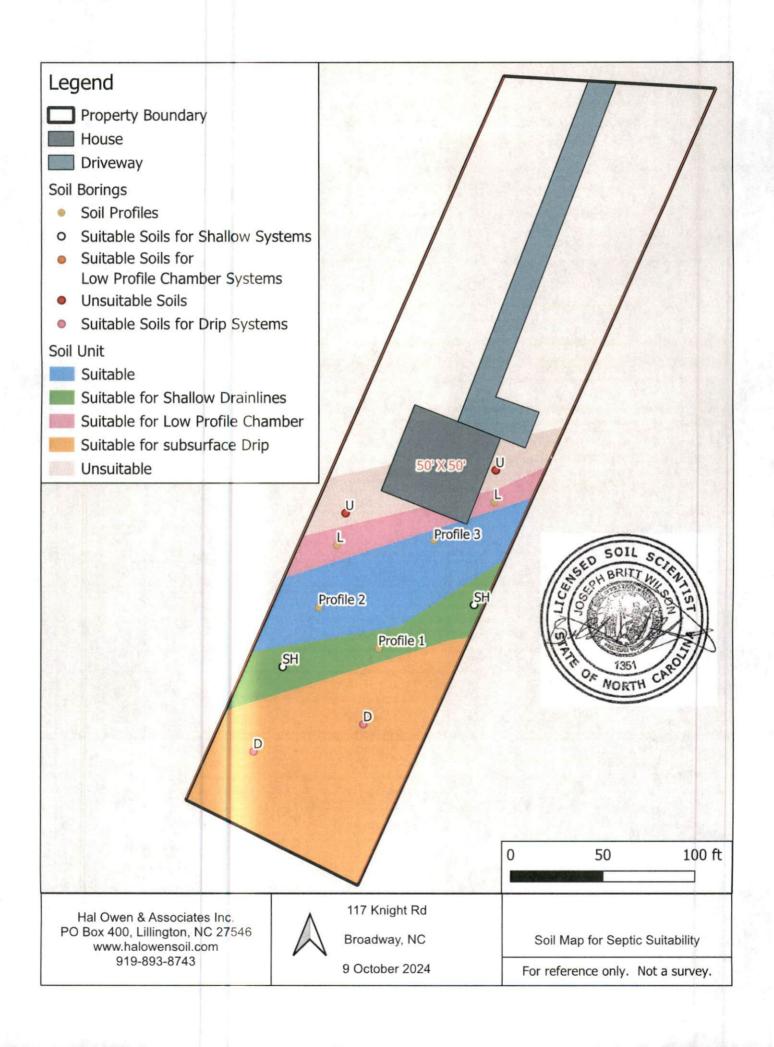
INITIAL WASTEWATER SYSTEM





REPAIR WASTEWATER SYSTEM

	GN DAILY F		360	gallons/day	5	SOIL LTAR:		gpd/ft ²
TANK	(S (minimu	m)	Septic Tank 100	1000	gallons	Pump Tank	1000	gallons
SUPF	LY LINE	Length (ft):	100	Diameter:	2	" sch 40 pv		
			ow (gpm) to mair					
TREM	ICHES Dra	inline Type:	PPBPS, horizon	ital				
		Maximum	Trench Depth of	18	inches, mea	asured on lov	w side of tren	nch
	Tr	rench width:	3	feet				ft
	Abso	rption Area:	514	ft²	Minimum L	inear Length:	171	ft
					÷ 4.33 f	t per panel :	40	panels
PRES	SSURE MAN							
			2	-	tion: 6in. spa	acing, 1 side	of manifold	
		Length (ft):	2.5	Diameter:	4" sch 80 p	VC	Elevation:	103.03
	CHART		1	1				
Тар				Drainline	Number of			LTAR
#	Line #	Color	Elevation (ft)		Panels	Schedule	101	(gpd/ft ²)
1	1	Y	102.03	50	12	1/2"sch 40		0.714
2	2	R	101.46	121	28	1"sch 80	16.80	0.697
			Totals:	171	40	Total Flow:		
Dum	n Calcula	tions					Target LTAR*:	
Pull	p Calcula		40				LTAR + 5%:	0.735
		er of Panels:			4 - 5 1 - +	2.0		آمد
			144				gallons/ par	iei
			6.02					
Drow			15.06				inches	
			gallons ÷				inches	
			99.35 *Hazen Williams Fo	*** :: : : : : : : : : : : : : : : : :			uma tank)	
	tion Head:	8.68	Design Head:	2.0		Total Head:	12.67	feet
	to Deliver:	23.91	gpm @	12.67	ft head	rotal ricaa.	12.01	1001
2 24 3			nel with elapsed			audible and	visible alarm	n (w/
	553		matic (HOA) swi					
	5000		mounted a minir	N: 61 365	5.000 N	7.1		1.50
			Floats to be det				оо о. ро	
			Brantley 1000 S		Septic Filter:			
			Brantley 1000 F		Vol(gal):	1000	GPI:	20.25
		sible Pump:			. 10 /	pump h	neight (in) =	14
	Possible Co						(-	



Soil/Site Evaluation Form for On-Site Wastewater System

OWNER NAME:	Jose and Carmela Rubio			1
PROPOSED FACILITY:	Residential	DESIGN DAILY FLOW:	360	WATER SUPPLY Public Water
LOCATION OF SITE:	117 Knight Rd, Broadway,	NC 27505	PIN:	9680-69-1479.000
WASTEWATER TYPE:	Domestic		COUNTY:	Harnett
EVALUATION METHOD	AUGER BORING	PIT		CUT
EVALUATED BY:	Britt Wilson, LSS#1351		DA	TE EVALUATED:
	INITIAL SYSTI	EM		REPAIR SYSTEM
AVAILABLE SPACE	771 ft ² trench botto	om	514	ft ² trench bottom
SYSTEM TYPE	Accepted (25% re	duction) System		PPBPS, horizontal
SITE LTAR	0.35 gpd/ft ²		0.35	gpd/ft ²
MAX TRENCH DEPTH	18 inches (measu	red on downhill side)	16	inches (measured on downhill side)
SITE CLASSIFICATION	Suitable	OTHE	R FACTORS	
COMMENTS:				

PROFILE 1

HORIZON	COLOR	CONSIS	TEXTURE	STRUCTURE	MINERA	OTHER PROFILE FACTORS	
DEPTH		TENCE			LOGY		*1
0-7	2.5Y 4/2	FR	SL	GR	SEXP	LANDSCAPE POSITION	L
7-21	10YR 6/6	FI	SCL	SBK	SEXP	SOIL WETNESS DEPTH	32"
21-32	10YR 7/4	FI	SCL	SBK	SEXP	SOIL WETNESS COLOR	10YR 7/2
32-48+	10YR 7/4	FI	SCL	ABK	SEXP	SOIL DEPTH	48"
						SAPROLITE CLASS	NA
						RESTRICTIVE HORIZON	NA
						SLOPE %	10
PROFILE CLASSIFICATION		ION	Suitable	LTAR gpd/ft ²	0.35	SLOPE CORRECTION (IN)	3.6
COMMENT							•

PROFILE 2

PROFILE C	LASSIFICAT	ION	Suitable	LTAR gpd/ft ²	0.35	SLOPE COR	RECTION (IN)	3.6
						SLOPE %		10
						RESTRICTIV	/E HORIZON	NA
						SAPROLITE CLASS		NA
34-48+	10YR 7/4	FI	SCL	ABK	SEXP	SOIL DEPTH		48"
23-34	10YR 7/4	FI	SCL	SBK	SEXP	SOIL WETNESS COLOR		10YR 7/1
11-23	10YR 6/6	FI	SCL	SBK	SEXP	SOIL WETNESS DEPTH		34"
0-11	2.5Y 4/2	FR	SL	GR	SEXP	LANDSCAPE	LANDSCAPE POSITION	
DEPTH		TENCE			LOGY			
HORIZON	COLOR	CONSIS	TEXTURE	STRUCTURE	MINERA	OTHER PROFILE FACTORS		CTORS

PROFILE 3

HORIZON	COLOR	CONSIS	TEXTURE	STRUCTURE	MINERA	OTHER PROFILE FACTORS	
DEPTH		TENCE			LOGY		Same and the same
0-9	2.5Y 4/2	FR	SL	GR	SEXP	LANDSCAPE POSITION	L
9-27	10YR 6/6	FI	SCL	SBK	SEXP	SOIL WETNESS DEPTH	42"
27-42	10YR 7/4	FI	SCL	SBK	SEXP	SOIL WETNESS COLOR	10YR 7/1
42-48+	10YR 7/4	FI	SCL	ABK	SEXP	SOIL DEPTH	48"
						SAPROLITE CLASS	NA
						RESTRICTIVE HORIZON	NA
- 1						SLOPE %	10
PROFILE C	LASSIFICAT	ION	Suitable	LTAR gpd/ft ²	0.35	SLOPE CORRECTION (IN)	3.6
COMMENT							

Soil/Site Evaluation Form for On-Site Wastewater System

LEGEND OF ABBREVIATIONS

LANDSCAPE	TEXTUR	RE	TEXTURE		LTAR
POSITION	GROU	2	CLASS		(gal/day/sqft)
CC - Concave Slope	1		S - Sand		1.2-0.8
CV - Convex Slope			LS - Loamy S	Sand	
DS - Debris Slump					
D - Depression	II.		SL - Sandy L	.oam	0.8 - 0.6
DW - Drainage Way			L - Loam		
FP - Flood Plain					
FS - Foot Slope	l III		SCL - Sandy	Clay Loam	0.6 - 0.3
H - Head Slope			CL - Clay Lo	am	
L - Linear Slope			SiL - Silt Loa	ım	
N - Nose Slope			Si - Silt		
R - Ridge			SiCL - Silt Cl	lay Loam	
S - Shoulder Slope					
T - Terrace	IV		SC - Sandy Clay		0.4 - 0.1
TS - Toe Slope			C - Clay		
62		SiC - Silty Clay		ay	
			O - Organic		none
STRUCTURE		NSISTENCE		WET CONSISTE	NCE
G - Single Grain	VFR - Very	Friable	- 1	NS - Non Stick	
M - Massive	FR - Friable	е		SS - Slightly Stic	
CR - Crumb	FI - Firm		- 1	MS - Moderately	Stick
GR - Granular	VFI - Very	Firm		VS - Very Sticky	
SBK - Subangular Blocky	EFI - Extre	mely Firm			
ABK - Angular Blocky				NP - Non Plastic	
PL - Platy MIN		MINERALOGY		SP - Slightly Plastic	
PR - Prismatic	SEXP - Sli	SEXP - Slightly Expansive		MP - Moderately Plastic	
	EXP - Expa	ansive		VP - Very Plastic	;
MOTTLES	f – few	1 - fine		F - Faint	
	c – common	2 - medium		D - Distinct P - Prominent	
	m – many	3 - coarse			

Give Horizon Depth in inches below natural soil surface and Fill Depth in inches above land surface.

Depth to Soil Wetness: inches below land surface to free water or to soil colors with chroma 2 or less.

Classification:

S - Suitable

U - Unsuitable

All soil characteristics were described in accordance with the USDA Field Book for Describing and Sampling Soils. The soils were evaluated under moist soil conditions. This evaluation included observations of topography and landscape position, soil morphology (texture, structure, clay mineralogy, organics), soil wetness, soil depth, and restrictive horizons.