

INVOICE

FOR:

Andrew Jenkins

ADDRESS:

12269 Edyth Lake Way

Rancho Cordova, CA 95742

PROPERTY:

0 McDougald Road, Sanford, NC 27332

Harnett County, PIN 9579-52-3028

DATE OF INVOICE:

August 13, 2023

DATE OF SERVICE:

July 21, 2023

TYPE OF SERVICE:

Soil evaluation for 15.295 ac on McDougald Rd

DELIVERABLES:

Improvement Permit form for G.S. 130A-335(a2)

Soil evaluation form and site sketch, maps

AMOUNT DUE:

\$1,500.00

(FIFTEEN HUNDRED DOLLARS)

AMOUNT PAID:

PAYABLE TO:

ROBIN MAYCOCK PEREZ

2415 Adams Farm Court

Snow Camp, NC 27349-9236

SUBMITTED BY:

017. 0

Robin M. Perez

PAY BY CHECK OR VIA
ZELLE APP TO 919 418 7645



August 13, 2023

Andrew Jenkins 12269 Edyth Lake Way Rancho Cordoba, CA 95742

Subject:

Soil/Site Evaluation Report for 15.295 ac lot located on McDougald Road, Sanford, NC

27332, Harnett County, PIN 9579-52-3028.000

Dear Andrew:

On July 21, 2023, Robin M. Perez (LSS #1205) conducted soil suitability evaluation on the subject property, a 15.295-acre tract located adjacent to 14554 McDougald Road, Sanford. The soil evaluation determined that there is provisionally suitable soil for Type III (b, g) low profile chamber or shallow conventional accepted septic system for the proposed 4-bedroom home, according to North Carolina Laws and Rules for Sewage Treatment and Disposal (15A NCAC 18A .1900). The proposed house location may change and may require a pump to the septic system area shown on the site sketch. Public water is available.

The subject property consists of approximately 15.295 acres and is currently wooded with a dirt road crossing the property. The subject property has a narrow road frontage approximately 140.59 feet wide at and approximately 650 by 1100 feet wide at the back. The subject property was recorded in 2019.

The soils were evaluated in accordance with the North Carolina Laws and Rules for Sewage Treatment and Disposal (15A NCAC 18A .1900). Twelve auger borings were evaluated to depths of 36 to 48 inches below the ground surface. An area was identified south of the dirt road (soil borings 1, 8, 9, 10, 11 and 12) that will support at least four bedrooms with a shallow conventional or low-profile chamber system, due to suitable depths to 24 to 30 inches. At the estimated Long Term Acceptance Rate (LTAR) of 0.4 gallons per day per square foot there appears to be more than enough available area for the proposed 4bedroom house with a design flow of 480 gallons per day. There is approximately 28,000 square feet of available area for the primary drainfield and the reserve area. A pumped chamber (Low Profile Infiltrator) system, (Type III (b, g)) with an initial septic system consisting of 4 100-foot-long trenches (3 feet wide on 9-foot centers) would provide 400 linear feet or 1200 square feet for the primary drainfield. The maximum trench depth is 12 inches below the existing ground surface, with six inches of cover.

An additional area was evaluated north of the dirt road and an area is shown (with soil borings 2, 3, 4, 6, and 7 that had only 16 to 18 inches of suitable soil that may work with a drip irrigation system with aerobic treatment. This is an expensive system and more area may be evaluated at a later date to identify more provisionally suitable areas.

The proposed specifications for the proposed septic systems are recommended as follows:

- Clearing and grubbing should be done with care to prevent soil disturbance or compaction.
- Maintain existing surface and natural contours when clearing the lot
- Install the septic system in dry soil conditions
- No grading or filling within proposed septic area
- 480 gallons per day design flow
- 0.4 LTAR for primary system
- 0.4 LTAR for repair system
- 1000-gallon septic tank
- 1000-gallon pump tank
- Maintain 10 feet setback from septic system/tanks to property line or to house
- Final grade shall divert runoff away from the septic system

The LSS/LG evaluation attached to this application is to be used to issue an Improvement Permit, in accordance with G.S. 130A-335 (a2) and (a3) with a Soil/Site Evaluation form, site map, property survey, and GIS maps showing aerial photographs with topographic contours and soil map units.

Please sign the Owner Authorization form and submit it with the attached Improvement Permit form, Soil Evaluation and Soil/Site Sketch forms to the Harnett County Environmental Health Department for approval with a completed application form and fee. I have included several attachments for your reference. If you have any questions regarding this report, please contact me. Thank you for allowing Maycock Environmental to perform this soil and site evaluation for you.

Sincerely,

Robin Maycock Perez

NC Licensed Soil Scientist #1205

Roth Rong

Enclosed:

Owner Authorization form

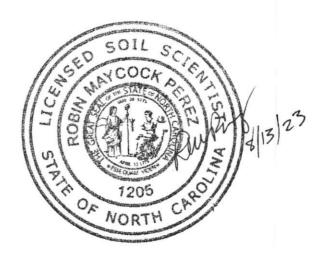
Improvement Permit application form

Soil/Site Evaluation Summary Form

Property Survey

Harnett County GIS maps

NRCS Web Soil Survey excerpt





Date: August 13, 2023

Harnett County Environmental Health 307 W. Cornelius Harnett Blvd. Lillington, NC 27546

RE:

Improvement Permit Application Submittal by Robin Maycock Perez of Maycock Environmental for Andrew Jenkins, for 15.295 ac property located on McDougald Road, Sanford, NC 27332, Harnett County, PIN: 9579-52-3028

The LSS/LG evaluation(s) attached to this application is to be used to issue an Improvement Permit in accordance with G.S. 130A-335(a2) and (a3).

Owner: Andrew Jenkins
Owner's Signature: X
Owner's Representative: Robin M. Perez LSS 1205
Signature: Kokm Rev Cz
Date: 8/13/2023



ROY COOPER • Governor KODY H. KINSLEY · Secretary

MARK BENTON • Deputy Secretary for Health

SUSAN KANSAGRA • Assistant Secretary for Public Health

Division of Public Health

Submittal Includes:	(a2) Improvement Permit	(a2) Construction Authorization	Fee \$

TWIFROVEMENT PERMIT FOR G.S. 130A-335(a2)
County: HARNETT
PIN/Lot Identifier: 9579-52-3028.000
Issued To: ANDREW JENKINS
Property Location: 0.67 MI WEST OF DOLL HOUSE RD, ON NORTH SIDE OF MCDOUGALD RD Subdivision (if applicable) (ADJACENT 76 14554 MCDOUGALD RD) LOS Report Provided: Ves M No Company Report Provided Report
Subdivision (if applicable) (ABJACENT TO 14554 MCDOUGALD RD)
NO NO
If yes, name and license number of LSS: ROBIN M. PEREZ LSS 1205
Expansion
Proposed Structure: 4 SEDROOM HOUSE
Number of bedrooms: 4 Number of Occupants: 8 Other:
Design Wastewater Strength: domestic high strength
Proposed Design Daily Flow: 480 GPD Proposed LTAP (Initial). A 11
(Initial) D
Proposed Wastewater System Type*:
*Please include system classification for proposed wastewater system types in accordance with 15A NCAC 18A .1961 Table V(a)
This System (Initial): Yes Mo If yes, specify: New Carlotter to the state of the st
Fill System (repair): Yes No If yes, specify: New Existing (when adding more than 6 inches of fill to system area provide a fill plan) Usable Soil Depth (Initial): 24-30" Usable Soil Depth (Repair): 74-30"
Usable Soil Depth (Initial): 24-30" Usable Soil Depth (Repair): 24-30" Way Trench Depth (Initial): 12"
Max Trench Depth (Initial)*: 12 Max Trench Depth (Poppiet 10 11
Artificial Drainage Required: Yes No If yes, please specify details:
ype of Water Supply: Private well Public well Shared with
No. 1 Paris of Rule 1945: Yes M. No. 1
ermit valid for: Five years [site plan submitted pursuant to GS 130A-334(13a)] No expiration [plat submitted pursuant to GS 130A-334(7a)]
Permit conditions:
PS SOIL AREA SHOWN WITH 24-30" SUITABLE DEPTH, Z8,000 SF
140 × 200',
censed Soil Scientist Print Name: Robin M. PEYEZ LSS 1205
Silver Solver Signature: April M. Flores
being submitted pursuant to and meets the requirements of G. S. 1204 2011 (2)
See attached site sketch

NC DEPARTMENT OF HEALTH AND HUMAN SERVICES . DIVISION OF PUBLIC HEALTH

LOCATION: 5605 Six Forks Road, Building 3, Raleigh, NC 27609 MAILING ADDRESS: 1632 Mail Service Center, Raleigh, NC 27699-1632 www.ncdhhs.gov • TEL: 919-707-5854 • FAX: 919-845-3972

AN EQUAL OPPORTUNITY / AFFIRMATIVE ACTION EMPLOYER



Permit #:	

This Section for Local Health Department Use Only

G.S. 130A-335(a3) states the following: When an applicant for an improvement Permit submits to a local health department an improvement Permit application, the permit fee charged by the local health department, the common form developed by the Department, and a soil evaluation pursuant to subsection (a2) of this section, the local health department shall, Permit includes all of the required components. If the local health department determines that the improvement Permit is incomplete, the local health department shall notify the applicant of the components needed to complete the improvement Permit. The applicant may submit additional information to the local health department of the the improvement Permit. The local health department to cure the deficiencies in the improvement Permit. The local health department shall make a final determination as to whether the Improvement Permit activiting in any period set out in this subsection, the applicant may treat the failure to act as a determination from the applicant. If the local health department fails to common form for use as the Improvement Permit. The review for completeness of this Improvement Permit was conducted in accordance with G.S. 130A-335(a3). This Improvement Permit is determined to be: Incomplete (If box is checked, information in this section is required.) Incomplete (If box is checked, information in this section is required.) Date Date: Date: Date:		Initial submittal r	eceived:	by
When an applicant for an improvement Permit submits to a local health department on improvement Permit application, the permit fee charged by the local health department, the common form developed by the Department and a soil evolutation pursuant to subsection (a) of this section, the local health department shall, within five business days of receiving the application, conduct a completeness review of the submittal. A determination of completeness means that the improvement Permit is the required components, if the local health department that the improvement Permit is complete, the local health department is the policinal may submit additional information to the local health department to cure the deficiencies in the improvement Permit. The local health department shall make it afine determination to the local health department to cure the deficiencies in the improvement Permit. The local health department shall make a final determination to the local health department to cure the deficiencies in the improvement Permit. The local health department shall make a final determination to the local health department permit to with any period set out in this subsection, the applicant may treat the failure to act as a determination of completeness. The Department shall develop a common form for use as the improvement Permit. The review for completeness of this Improvement Permit was conducted in accordance with G.S. 130A-335(a3). This Improvement Permit is determined to be: In Incomplete (if box is checked, information in this section is required.) In Incomplete (if box is checked, information in this section is required.) In Incomplete (if box is checked, information in this section is required.) In Incomplete (if box is checked, information in this section is required.) In Incomplete (if box is checked, information in this section is required.) In Incomplete (if the series and the permit by the Health Department in no way guarantees the Issuance of other permits. The revocation if the site plan, plat, or the	G.S. 130A-335(a3		Date	Initials
The review for completeness of this Improvement Permit was conducted in accordance with G.S. 130A-335(a3). This Improvement Permit is determined to be: Incomplete (If box is checked, information in this section is required.)	When an applicant for department, the community within five business de Permit includes all of is shall notify the applicate department to cure the is complete within five	r an Improvement Permit submits to a local in mon form developed by the Department, and tys of receiving the application, conduct a co- the required components. If the local health of the top the components needed to complete the edeficiencies in the Improvement Permit. The	mpleteness review of the submit department determines that the he Improvement Permit. The app he local health department shall r	tal. A determination of completeness means that the improvement improvement improvement improvement is incomplete, the local health department is incomplete, the local health department inches a final determination to the local health
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G.S. 130A-335(a2) Common Form

See attached site sketch



Permit #:	
Permit #:	

Re-submittal of Improvement Permit

	LHD USE ONLY: This IP re	submittal received:	Date	by	
The following it	ems are being resubmitted pur	suant to G.S. 130A-33	5(a3) for issuance of	f the Improvement Permit:	_
is accurate and co	entist (Print Name) omplete to the best of my know ws, regulations, rules, and orc		the information req	uired to be included with the service of the servic	his re-submittal ble federal,
Signature o	of Licensed Soil Scientist			Date	
LHD Follow-up	The section below is for Local H Completeness Review of	dealth Department use a	fter submittal of item	s noted as missing above.	
	npleteness of this Improvement nit is determined to be:			ccordance with G.S. 130A-3	35(a3). This
Incomplete (If	box is checked, information in s are missing:	this section is require	d.)		
Coples of this were	sent to the LSS and the Applic	ant on			
	ent:	Data		Date:	
Complete	And the second s				
State Authorized Ag	ent:			Date:	

(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 #: 9579 - 52-3028 DATE OF EVALUATION: 7/21/23

COUNTY: HARNETT

	P R O F I L	.1940							HARNETT	
	£ #	LANDSCAPE POSITION/ SLOPE %	HORIZ ON DEPTH (IN.)	.1941 STRUCTURE/ TEXTURE	.1941 CONSISTENCE/ MINERALOGY	.1942 SOIL WETNESS COLOR	1942	.1956 SAPRO		
	1	SS 290 PS	0-18 18-30 30-40	GR, SL SBK, SCL SBK, SCL	FR,NP,NS F,SP,SS,SXP VF,SP,SS,SXF		40"+			PS 0.4
7	2	55 3% PS	8-16 1B-24	SBK,C	FR, NP, NS F, SP, SS, SXP F, P, S, SXP F, P, S, SXP	18" 10yr8/2 10yr8/2 W/PS DRIP	28"+ WPS			U/PS DRIP SFC/6"
3		SS 3% PS	6-12	ABK, SCL SBK, C	FR,NP,NS F,SP,SS,SXP F,P,S,SXP F,P,S,SXP	24" 10 yr 8/2 10 yr 8/2 U/PS LP ACCEP.	40"+ PS	~		U/PS 12" 0.3 DRIP
4		5%	12-24 5	BK, SC F	FR,NP,NS F,SP,SS,SXP F,P,S,SXP F,P,S,SXP		48" Ps			u/PS 12" 6.3 DRIP
5		590	8-18 G 8-28 S	R, SL F BK, SCL F	FR, NP, NS FR, NP, NS SP, SS, SXP SP, SS, SXP	48" PS	48" PS			PS 0.4 CONV.

COMMENTS: HOLES 1,8,9,10,11+12 PS FOR SHALLOW CONVENTIONAL (12") OR LOW PROFILE CHAMBER WITHOUT 25 TO REDUCTION, HOLES 2,3,5,4,7-7 SURFACE DKIP PUMP MAY BE REQUIRED.

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

Sheet 2 of 4

PROPERTY ID #: 9579-52-3025
DATE OF EVALUATION: 7/21/23

COUNTY: HARNETT

P R O F I L	.1940	SOIL MORPHOLOGY (.1941) OTHER PROFILE FACTORS				254			
#	LANDSCAPE POSITION/ SLOPE %	HORIZ ON DEPTH (IN.)	.1941 STRUCTURE/ TEXTURE	.1941 CONSISTENCE/ MINERALOGY	.1942 SOIL WETNESS/ COLOR	.1943 SOIL DEPTH	.1956 SAPRO CLASS	.1944 RESTR HORIZ	PROFILE CLASS & LTAR
6	55 490 PS	0-6 6-12 12-20 20-36	100	FR, NP, NS FR, NP, NS F, SP, SS, SXP F, P, S, SXP	10/PS 20" 10/PS 10/PS 10/PS	P5 36"		_	U/PS DRIP 0.3
7	55 276 PS		SBK, SCL	FR, NP, NS FR, NP, NS F, SP, SS, SXP F, P, S, SXP F, P, S, SXP	18" 10yr 8/1 10yr 8/2	PS 36"			U/PS DRIP b.3
8	55 2% PS	4-8 8-24	GR, SL GR, SCL SBK, SCL	FR, NP, NS FR, NP, NS F, SP, SXP	30" 30" 10yr 7,2 10yr 8/2	PS 36"			u/PS 6.4
9	290 PS	6-10 1 10-24, 24-28;	GR, SL F ABK, SCL F SBK, SC F	FR, NP, NS FR, NP, NS FR, SP, SS, SXP F, P, S, SXP	U/PS 28" 04r7/2 04r8/2	PS 36"			U/PS 0.4
10	55 <u>1</u>	0-4 (4-18 (8-28 f	GR, SL B GR, SL B ABK, SCL F	FR, NP, NS	U/PS 28" Uyr7/2 Dyr8/1	PS 36			u/Ps 6.4

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

Sheet 3 of 4

PROPERTY ID #: 4579-52-3028

DATE OF EVALUATION: 7/21/2023

COUNTY: HARNETT

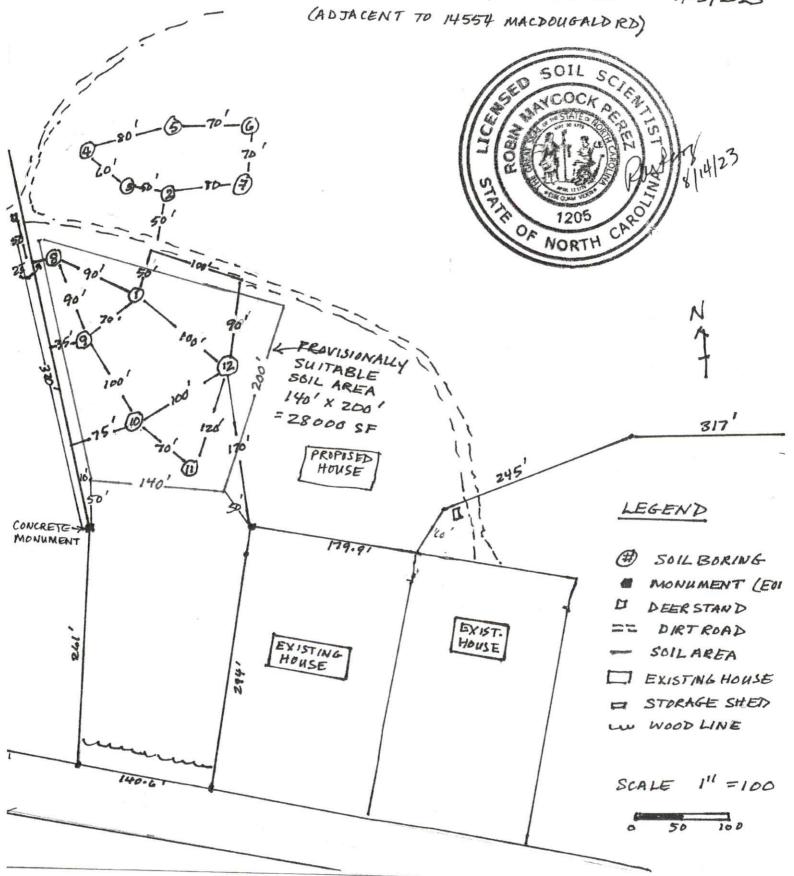
P R O F I L	.1940		SOIL MORPHO (.1941)	LOGY	OTHER PROFILE	FACTORS			
# #	LANDSCAPE POSITION/ SLOPE %	HORIZ ON DEPTH (IN.)	.1941 STRUCTURE/ TEXTURE	.1941 CONSISTENCE/ MINERALOGY	.1942 SOIL WETNESS/ COLOR	.1943 SOIL DEPTH	.1956 SAPRO CLASS	.1944 RESTR HORIZ	PROFILI CLASS & LTAR
//	ss 390 Ps	15-28	ABK, SCL	FR,NP,NS FR,RP,NS F,SP,SS,SXP F,SP,SS,SXP	U/PS 28" 10yr7/2	PS 36"			n/P5 0.4
2	216	6-18	ABK, SCL	FR, NP, NS FR, NP, NS F, SP, SS, SXP F, SP, SS, SXP	30" 1048/	PS 36"			<i>ШР</i> 5 0.4
	-					ED S	OIL S	T.E.	
						ROBIN		RIAN S	18/2°
					N	THO A	1205 /ORTH		
IMEN	NTS: LDW	PROF		R OR SHALLO					

LEGEND

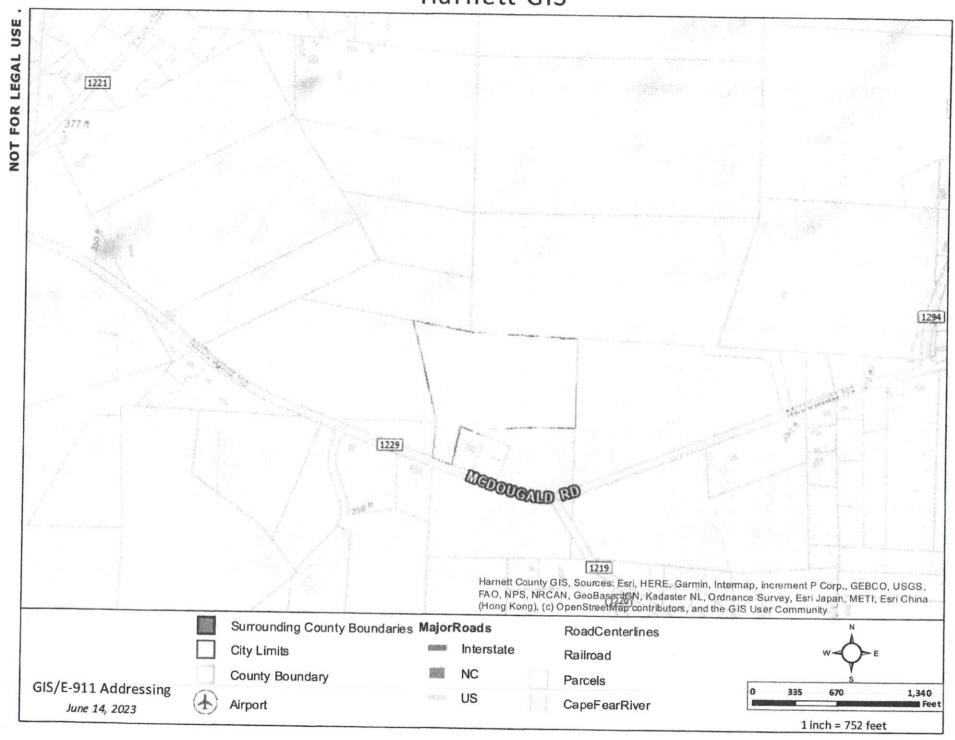
PIN: 9579-52-3028 DATE: 7/21/23

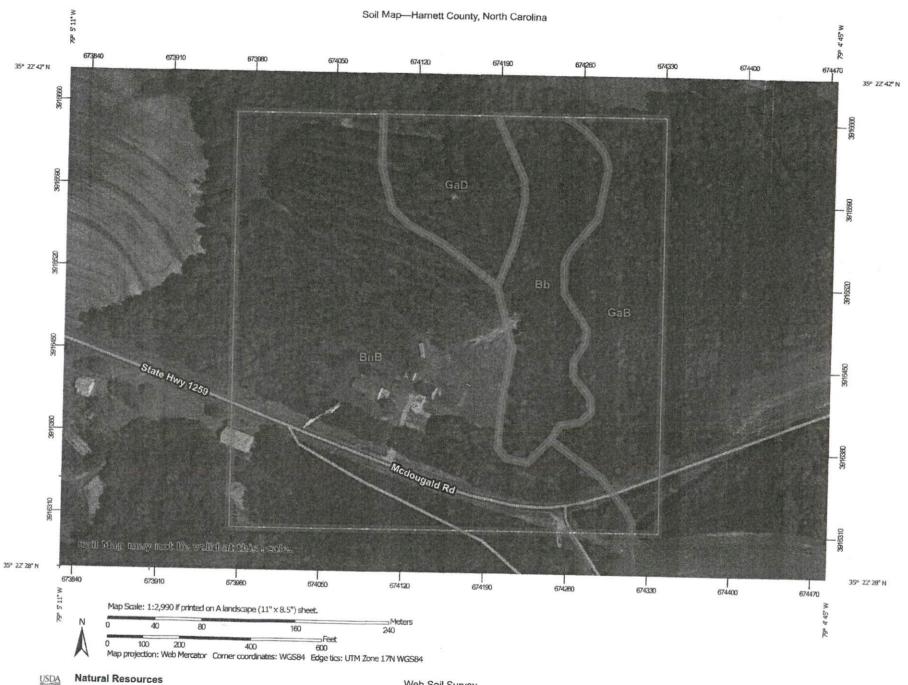
		use the follo	wing standard ab	breviations	COUNTY: H	21/23 BARNETT	
LANDSCAPE POSITION	CDOVID	SOIL A	CONVENTIONAL	THE RESIDENCE OF THE PARTY OF T	MINERALOGY/	THE THE	
CC (Concave Slope)	<u>GROUP</u> I	TEXTURE S (Sand)	.1955 LTAR*	.1957 LTAR=	CONSISTENCE	STRUCTURE	
CV (Convex Slope) D (Drainage Way)		LS (Loamy Sand)	1.2 - 0.8	0.6 - 0.4	SEXP (Slightly Expansive) EXP (Expansive)	G (Single Grain) M (Massive)	
DS (Debris Slump) FP (Flood Plain)	п	SL (Sandy, h) M	0.8 - 0.6	0.4 - 0.3	(CR (Crumb)	
FS (Foot Slope)		L (Loam)		VV - 0.0	9.	GR (Granular) SBK (Subangular	Blocky)
H (Head Slope) L (Linear Slope)	ш	Si (Silt)	0.6 - 0.3	0.3 - 0.15		ABK (Angular Ble PL (Platy)	ocky)
N (Nose Slope) R (Ridge)		SiCL (Silty Clay Am) CL (Clay Loam)					rismatic)
S (Shoulder Slope)		SCL (Sandy Clay L. SiL (Silt Loam)			MOIST	WET	
T (Terrace)	IV	SC (Sandy Clay)	0.4 - 0.1	** ***	VFR (Very Friable)	NS (Non-sticky	2)
		SiC (Silty Clay) C (Clay)	0.4-0.1	0.2 - 0.05	FR (Friable) FI (Firm)	SS (Slightly Sticky)	
		O (Organic)	None	None	VFI (Very Firm v. Very Sticky) EFI (Extremely Firm)	VS (Very Sticky	
NOTES *Adju	st LTAR due to depth, cons	sistence, structure, soil wetne	ess, landscape, position		d malia	NP (Non-plastic SP (Slightly Pla	stic)
HORIZON DEPTH	in inches below natur	al soil surface	-in/	wastewatty now an	d quanty.	P (Plastic) VP (Very Plastic)	
RESTRICTIVE HORIZONS OF SAPROLIFE	This mess and depth	Irface	15	/ -			9
SAPROLITE & CLASSIFICATION AND C	O (Stokes then lond and	itable)	\ /		Zor less - record Munsell color of		1
SOIL WE WESS CLASSIFICATION Evaluation of sprolife mail to	ATE (Suitable), PS (Prov	isionally Suitable), or U (Ur	om land surface to soil (colors with chromas	or less - record Munsell color	chip designation	
Long term Acceptance Rate (L	TARL gardayan	1125		HED I	Hou		
OB M	Stew profile	Myalions and other site fe	atures (dimensions, re	ference or benchm	ark, and North).		
No. 1 Political	A AN		- 0				
1131	13/	1//					
Nat 1	205 /0//						
On The Control	CA A	A	1			-	+
100	RTH	PROSED HOUSE		08			1
	11	22		\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	HOUSE	SY	8
		124			15.7	7	
					HO HO	5.5	7
	14	210'				3	CDOUGALD
W-71-3-9	0-1/90	194	1		1294'	/	100
	//	(12)	30				5
70 80	113	126					MA
	1 100	4		ROVISION	ALLY SUITABLE		1
(50'-	1 1 -1-				140' × 200		
50	11 50		12	28,000	CONMENTIONAL	18	
25 3	1/9/	1/2	01	R LOW PRI	PILE CHAMBER	10 1	1
11	10 70	75		W/O REDU	ICTION	•	
® /	11 12	2	1		26/		
.	90	35	10	ONCRETE	7		
	32	6*-	MON	UMENT		4	
11/1	3.						
- 20							
5.182	L DEER STAND	4 BDRM	5 = 480 GP.	P - 1200	SF		
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SOIL/SITE SKETCH FOR 15.295 AC ON MACDOUGALD RD PIN: 9579-52-3028, HARNETT CO. 8/13/2023









Conservation Service

Web Soil Survey National Cooperative Soil Survey

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MAP LEGEND

Area of Interest (AOI)

Area of Interest (AOI)

Soils

Soil Map Unit Polygons



Soil Map Unit Lines



Soil Map Unit Points

Special Point Features

(0) Blowout

Clay Spot

×

Closed Depression

Borrow Pit

× Gravel Pit

Gravelly Spot

Landfill

Lava Flow

Marsh or swamp

Mine or Quarry

Miscellaneous Water Perennial Water

Rock Outcrop

Saline Spot

Sandy Spot

Severely Eroded Spot

Sinkhole

Slide or Slip

Sodic Spot

Spoil Area

Stony Spot

0

Very Stony Spot

Wet Spot

Other 0

Special Line Features

Water Features

Streams and Canals

Transportation

+++ Rails

Interstate Highways

US Routes

Major Roads Local Roads

Background

Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:24,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service Web Soil Survey URL:

Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Harnett County, North Carolina Survey Area Data: Version 20, Sep 8, 2022

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Apr 23, 2022—Apr 27, 2022

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
Bb	Bibb soils, frequently flooded	4.4	13.89
BnB	Blaney loamy sand, 2 to 8 percent slopes	18.9	59.0%
GaB	Gilead loamy sand, 2 to 8 percent slopes	5.6	17.5%
GaD	Gilead loamy sand, 8 to 15 percent slopes	3.1	9.7%
Totals for Area of Interest		32.0	100.0%

Harnett County, North Carolina

BnB—Blaney loamy sand, 2 to 8 percent slopes

Map Unit Setting

National map unit symbol: 3snx Elevation: 160 to 660 feet

Mean annual precipitation: 38 to 52 inches Mean annual air temperature: 61 to 70 degrees F

Frost-free period: 210 to 245 days

Farmland classification: Farmland of statewide importance

Map Unit Composition

Blaney and similar soils: 90 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Blaney

Setting

Landform: Low hills

Landform position (two-dimensional): Summit Landform position (three-dimensional): Crest

Down-slope shape: Convex Across-slope shape: Convex

Parent material: Sandy and loamy marine deposits

Typical profile

A - 0 to 4 inches: loamy sand E - 4 to 25 inches: loamy sand Bt - 25 to 62 inches: sandy clay loam C - 62 to 80 inches: loamy coarse sand

Properties and qualities

Slope: 2 to 8 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Well drained

Runoff class: Medium

Capacity of the most limiting layer to transmit water (Ksat): Moderately high (0.20 to 0.57 in/hr) Depth to water table: More than 80 inches

Frequency of flooding: None Frequency of ponding: None

Available water supply, 0 to 60 inches: Low (about 4.0 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 3s

Hydrologic Soil Group: C

Ecological site: F137XY002GA - Loamy Summit Woodland -

PROVISIONAL

Hydric soil rating: No

Data Source Information

Soil Survey Area: Harnett County, North Carolina Survey Area Data: Version 20, Sep 8, 2022

Harnett County, North Carolina

GaD—Gilead loamy sand, 8 to 15 percent slopes

Map Unit Setting

National map unit symbol: 3spj Elevation: 160 to 660 feet

Mean annual precipitation: 38 to 52 inches Mean annual air temperature: 61 to 70 degrees F

Frost-free period: 210 to 245 days

Farmland classification: Farmland of statewide importance

Map Unit Composition

Gilead and similar soils: 85 percent Minor components: 5 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Gilead

Setting

Landform: Low hills

Landform position (two-dimensional): Shoulder Landform position (three-dimensional): Crest

Down-slope shape: Convex Across-slope shape: Convex

Parent material: Loamy and clayey marine deposits

Typical profile

Ap - 0 to 5 inches: loamy sand Bt1 - 5 to 8 inches: sandy loam Bt2 - 8 to 42 inches: sandy clay Bt3 - 42 to 52 inches: sandy clay loam

C1 - 52 to 76 inches: clay

C2 - 76 to 80 inches: gravelly sand

Properties and qualities

Slope: 8 to 15 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Moderately well drained

Runoff class: Medium

Capacity of the most limiting layer to transmit water (Ksat): Very low

to moderately high (0.00 to 0.57 in/hr)

Depth to water table: About 18 to 30 inches

Frequency of flooding: None Frequency of ponding: None

Available water supply, 0 to 60 inches: Moderate (about 7.9

inches)

Interpretive groups

Land capability classification (irrigated): None specified Land capability classification (nonirrigated): 3e

Hydrologic Soil Group: C Hydric soil rating: No

Minor Components

Bibb, undrained

Percent of map unit: 3 percent Landform: Flood plains Landform position (two-dimensional): Toeslope Down-slope shape: Concave Across-slope shape: Linear Hydric soil rating: Yes

Johnston, undrained

Percent of map unit: 2 percent Landform: Flood plains Down-slope shape: Concave Across-slope shape: Linear Hydric soil rating: Yes

Data Source Information

Soil Survey Area: Harnett County, North Carolina Survey Area Data: Version 20, Sep 8, 2022