#12929

MECKLENBURG COUNTY
HEALTH DEPARTMENT 11726P

9 MAR '22 AM10:04

APPLICATION FOR A RESIDENTIAL SITE IMPROVEMENT PERMIT/ CONSTRUCTION AUTHORIZATION FOR AN ON-SITE WASTEWATER SYSTEM, NEW WELL INSTALLATION, OR REPAIR OF EXISTING WELL

1. SEPTIC / TYPE APPLICATION: ○ N/A ◉ NEW SYSTEM ○ ALTERATION ○ REPAIR ○ MODIFIED PLOT PLAN

2. WELL / TYPE APPLICATION: ◉ N/A ○ NEW WELL ○ MAJOR REPAIR ○ ABANDONMENT

3. JOB LOCATION INFORMATION:

TAX PARCEL NUMBER: 13905203
STREET ADDRESS: 8714 Brookgreen Drive
CITY: Mint Hill
STATE: NC ZIP: 28227
SUBDIVISION NAME: Glencroft
LOT #: 1 LOT SIZE (acres): 2.0

TOWNSHIP:
◉ MECKLENBURG ○ CORNELIUS ○ HUNTERSVILLE
○ DAVIDSON ○ CHARLOTTE ○ PINEVILLE
○ MATTHEWS ○ MINT HILL

4. BUILDING INFORMATION:

BUILDING TYPE:
○ SINGLE MOBILE HOME ○ MODULAR HOME
○ DOUBLE WIDE ○ MULTIPLE FAMILY
◉ HOUSE ○ OTHER _____

HEATED SQUARE FOOTAGE: _____
NUMBER OF BEDROOMS: 5
NUMBER OF OCCUPANTS: 5

FOUNDATION TYPE:
○ CONCRETE SLAB ○ BASEMENT WITH PLUMBING
◉ CRAWL SPACE ○ BASEMENT WITH NO PLUMBING

5. IF PLANNING TO EXPAND OR ALTER THE EXISTING SEPTIC SYSTEM PLEASE COMPLETE THE FOLLOWING SECTION: ☑ N/A

NUMBER OF BEDROOMS TO BE ADDED: _____ NUMBER OF ADDITIONAL OCCUPANTS IN THE RESIDENCE: _____

6. WATER SUPPLY: ○ MUNICIPAL ◉ PRIVATE WELL ○ PUBLIC WELL ○ SHARED WELL ○ OTHER _____

7. PROPOSED USE OF WELL: ◉ N/A ○ IRRIGATION ○ POTABLE (DRINKING WATER) ○ OTHER _____

8. PLEASE INDICATE AND RANK DESIRED SEPTIC SYSTEM TYPE(S) IN ORDER OF PREFERENCE *(1-MOST DESIRED 5-LEAST DESIRED):*

☐ N/A ☐ ANY TYPE ☑ CONVENTIONAL ☐ ACCEPTED ☐ INNOVATIVE ☐ ALTERNATIVE ☐ OTHER _____

8A. RANK: ____ ____ ____ ____ ____

9. DO ANY OF THE FOLLOWING APPLY TO THE PROPERTY IN QUESTION? IF "YES" PLEASE ATTACH SUPPORTING DOCUMENTATION.

BURIED CABLES, LANDFILLS, STUMPHOLES	○ YES ◉ NO	GRADING/SOIL REMOVAL PERFORMED	○ YES ◉ NO
EXISTING WASTEWATER (SEPTIC) SYSTEMS	○ YES ◉ NO	JURISDICTIONAL WETLANDS	○ YES ◉ NO
WELLS, SPRINGS, OR WATER LINES	○ YES ◉ NO	APPROVAL REQUIRED BY ANY OTHER PUBLIC AGENCY	○ YES ◉ NO
EASEMENTS OR RIGHT-OF-WAYS	○ YES ◉ NO	WASTEWATER OTHER THAN DOMESTIC SEWAGE	○ YES ◉ NO
CHEMICAL/PETROLEUM STORAGE TANKS	○ YES ○ NO	KNOWN UNDERGROUND CONTAMINATION	○ YES ◉ NO
WASTE STORAGE	○ YES ◉ NO	GROUNDWATER USE RESTRICTIONS/VARIANCES	○ YES ◉ NO

10. WHAT DATE WAS THE PROPERTY ORIGINALLY DEEDED AND RECORDED? 12/9/2020 ☐ UNKNOWN

11. WHAT IS THE ANTICIPATED CLOSING DATE FOR THIS PROPERTY? _____ ☑ N/A

12. PROPERTY OWNER:

NAME: Douglas Wilson
ADDRESS: 548 Lakenheath Lne
CITY: Matthews
STATE: NC ZIP: 28105
WORK PHONE: _____
MOBILE PHONE: 7046088493
FAX: _____
E-MAIL: dougwilsonpmp@gmail.com

13. OWNER'S LEGAL REPRESENTATIVE, IF APPLICABLE:

Owner's Authorization form is required if legal representative is submitting application

NAME: _____
ADDRESS: _____
CITY: _____
STATE: _____ ZIP: _____
WORK PHONE: _____
MOBILE PHONE: _____
FAX: _____
E-MAIL: _____

MECKLENBURG COUNTY – GROUNDWATER & WASTEWATER SERVICES
3205 Freedom Dr. Suite 8000, Charlotte, NC 28208 OFFICE: (980) 314-1680, FAX: 704-336-6894

Revised on: 03/27/19

14. SEPTIC SYSTEM PERMIT APPLICATION:

If the information in this application is falsified, changed, or the site is altered, then the Improvement Permit and Authorization to Construct shall become invalid. I have read this application and certify that the information provided herein is true, complete and correct. Authorized county and state officials are granted right of entry to conduct necessary inspections to determine compliance with applicable laws and rules. I understand that I am solely responsible for the proper identification and labeling of all property lines and corners and making the site accessible so that a complete site evaluation can be performed. The permit is valid for either sixty (60) months or is non-expiring depending upon the documentation submitted: complete site plan = 60 months, complete plat = non-expiring.

DSW (Initial here for septic system applications)

15. WELL PERMIT APPLICATION:

If the information in this application is falsified, changed, or the site is altered, then the Well Permit shall become invalid. I have read this application and certify that the information provided herein is true, complete and correct. Authorized county and state officials are granted right of entry to conduct necessary inspections to determine compliance with applicable laws and rules. I understand that I am solely responsible for the proper identification and labeling of all property lines and corners and making the site accessible so that a complete site evaluation can be performed. The permit is valid for a period of twelve (12) months from the date of issuance.

DSW (Initial here for well applications)

16. APPLICATION SIGNATURE SECTION:

ONLY COMPLETE APPLICATIONS WILL BE PROCESSED. A proper signature is required in order to process your application. Please review the application carefully and sign in the space provided below. A PROPOSED PLOT PLAN is required to be submitted with each application.

Doug Wilson

Property Owner's or Owner's Legal Representative Signature

3/7/22

Date

OFFICE USE ONLY

O SURVEY PLAT TO SCALE SUBMITTED O SCALED SITE PLAN SUBMITTED O UN-SCALED SITE PLAN SUBMITTED

SEPTIC APPLICATION FEE RECEIVED: $ _____ DATE FEE RECEIVED: _____

WELL APPLICATION FEE RECEIVED: $ _____ DATE FEE RECEIVED: _____

APPLICATION PROCESSED BY: _____

GWS FILE NUMBER ASSIGNED: _____

APPLICATION ID NUMBER ASSIGNED: _____

COMMENTS:

MECKLENBURG COUNTY – GROUNDWATER & WASTEWATER SERVICES
3205 Freedom Dr. Suite 8000, Charlotte, NC 28208 OFFICE: (980) 314-1680, FAX: 704-336-6894

Revised on: 03/27/19

SURVEYOR'S CERTIFICATE

I, R. ALAN WILSON, CERTIFY THAT THIS PLAT WAS DRAWN UNDER MY SUPERVISION FROM AN ACTUAL SURVEY MADE UNDER MY SUPERVISION (DEED DESCRIPTION RECORDED IN BOOK ____, PAGE ____, ETC.) (OTHER); THAT THE BOUNDARIES NOT SURVEYED ARE CLEARLY INDICATED AS DRAWN FROM INFORMATION FOUND IN BOOK ____, PAGE ____; THAT THE RATIO OF PRECISION OR POSITIONAL ACCURACY AS CALCULATED IS 1:10,000+; THAT THIS PLAT WAS PREPARED IN ACCORDANCE WITH G.S. 47-30 AS AMENDED.

THIS SURVEY CREATES A SUBDIVISION OF LAND WITHIN THE AREA OF A COUNTY OR MUNICIPALITY THAT HAS AN ORDINANCE THAT REGULATES PARCELS OF LAND.

WITNESS MY ORIGINAL SIGNATURE, LICENSE NUMBER AND SEAL THIS ____ DAY OF ____________ A.D.

NORTH CAROLINA PROFESSIONAL LAND SURVEYOR SEAL L-3987 R. ALAN WILSON

PROFESSIONAL LAND SURVEYOR

L-3987
LICENSE NUMBER

STATE OF NORTH CAROLINA
TOWN OF MINT HILL

I, ____________, REVIEW OFFICER OF TOWN OF MINT HILL, CERTIFY THAT THE MAP OR PLAT TO WHICH THIS CERTIFICATION IS AFFIXED MEETS ALL STATUTORY REQUIREMENTS FOR RECORDING.

REVIEW OFFICER — DATE

MECKLENBURG COUNTY

APPROVED IN ACCORDANCE WITH THE ENGINEERING REQUIREMENTS OF THE SUBDIVISION ORDINANCE OF THE TOWN OF MINT HILL, MECKLENBURG COUNTY, NORTH CAROLINA.

MECKLENBURG COUNTY STAFF — DATE

I, DOUGLAS S. WILSON, VERIFY THAT I AM THE OWNER OF THE PROPERTY DEPICTED ON THIS SURVEY.

DOUGLAS S. WILSON — DATE
548 LAKENHEATH DR
MATTHEWS NC 28105

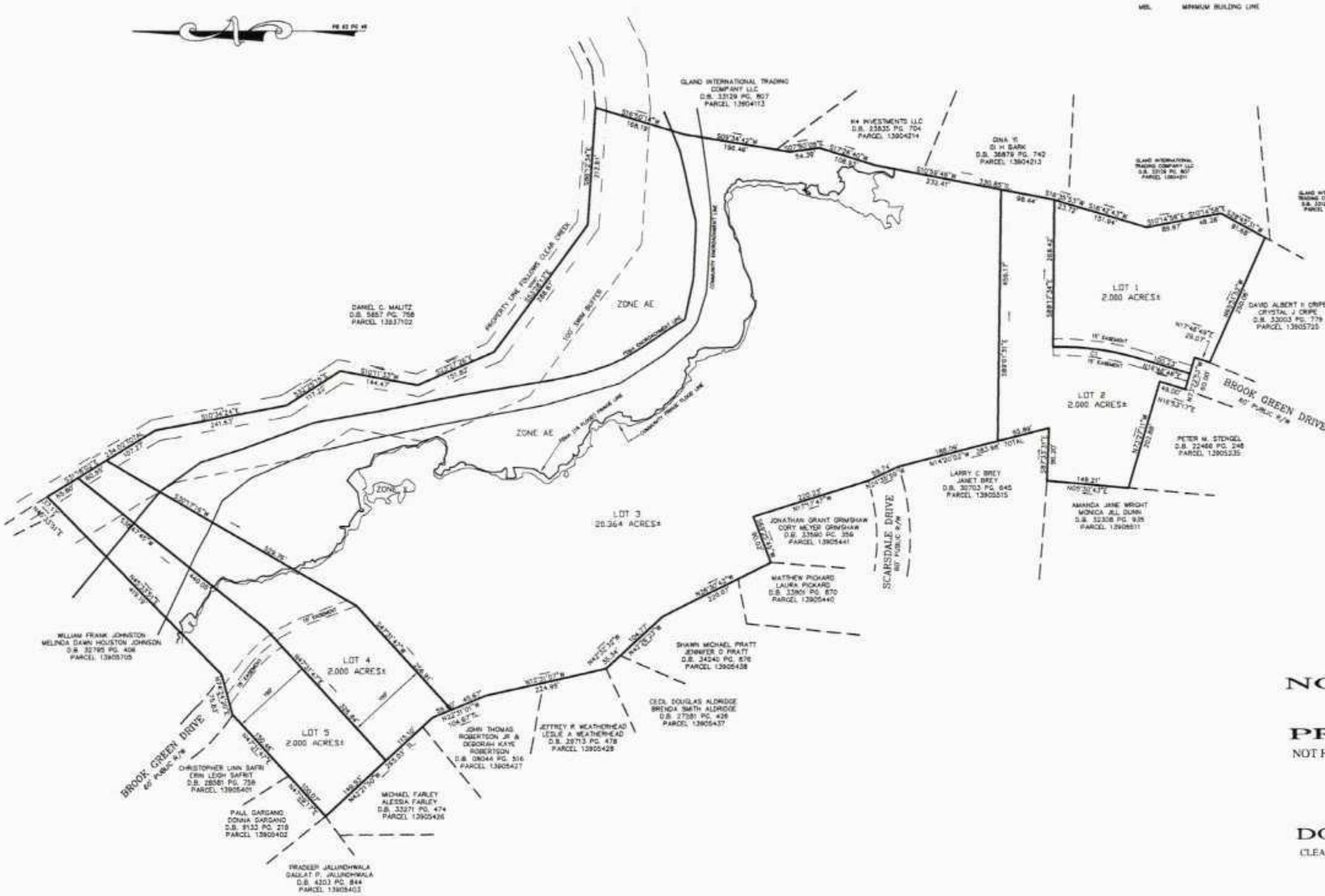
CURVE TABLE				
CURVE	LENGTH	RADIUS	BEARING	CHORD
C1	155.50	500.01	N87°46'52"E	154.87

LEGEND:

- EIP — EXISTING IRON PIPE
- NIP — NEW IRON PIPE
- CM — CONCRETE MONUMENT
- MH — MANHOLE
- MBL — MINIMUM BUILDING LINE
- R/W — RIGHT-OF-WAY
- CH — CHORD
- C/L — CENTERLINE
- PP — POWER POLE
- UE — UTILITY EASEMENT
- MBL — MINIMUM BUILDING LINE



VICINITY MAP
NOT TO SCALE



NOTE: This plat is subject to any Easements, Agreements, or Rights-of-Ways of record prior to date, which was not visible at this time of our inspection.

This survey is rendered solely for the benefit of the Owner, its lender, and title insurance company and may not be relied upon in any other manner or for any purpose by any other person.

NOTES:

PARCEL ID #13905203

DEED REFERENCE: D.B. 36850 PG. 809

PLAT REFERENCE: PLAT BOOK 62 PG. 46

PROPERTY ADDRESS: 8714 BROOKGREEN DR
CHARLOTTE NC 28227

RATIO OF PRECISION: 1:10,000

NO NCGS MONUMENTS WITHIN 2000 FEET.

NO FLOOD STUDY DONE.

ALL DISTANCES ARE HORIZONTAL GROUND DISTANCES UNLESS OTHERWISE NOTED.

THIS MAP DOES NOT MEET G.S. 47-30 REQUIREMENTS AND IS NOT FOR RECORDING.

NOT A SURVEY

DRAWN FROM MAPS OF RECORD

PRELIMINARY

NOT FOR RECORDING, SALES OR CONVEYANCES

PRELIMINARY PLAN

DOUGLAS S. WILSON

CLEAR CREEK TOWNSHIP — MECKLENBURG COUNTY

NORTH CAROLINA

OWNER/DEVELOPER:
DOUGLAS S. WILSON
548 LAKENHEATH DR.
MATTHEWS NC 28105

WILSON SURVEYING, INC.

R. ALAN WILSON : PROFESSIONAL LAND SURVEYOR NO. L3987
602 BLANDWOOD AVENUE, GREENSBORO, N.C. 27401

DATE: JANUARY 28, 2022 — SCALE: 1" = 100'

DRAWN BY: RTF	DRAWING FILE: DWG_FILE
PROJ. NO.: PROJ	

PRELIMINARY SOIL AND SITE EVALUATION

Mecklenburg County Parcel ID: 13905203
Brookgreen Drive
Charlotte, NC 28212

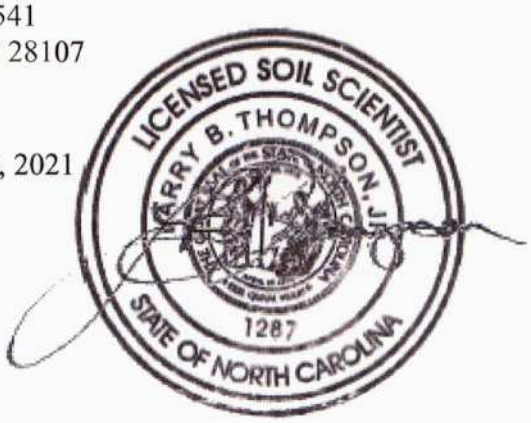
Prepared For:

Amanda L. Byrum, JD, MPA
Land Conservation Director
Catawba Lands Conservancy | Carolina Thread Trail
4530 Park Road, Suite 420
Charlotte, NC 28209

Prepared By:

Thompson Environmental Consulting, Inc.
PO Box 541
Midland, NC 28107

February 13, 2021



INTRODUCTION & SITE DESCRIPTION

This Preliminary Soil and Site Evaluation was performed on a 28.370-acre tract located on Brookgreen Drive, Charlotte, North Carolina (Mecklenburg County Parcel ID: 13905203).

Thompson Environmental Consulting, Inc. (TEC) was retained to determine whether the soils were suitable for the installation of onsite subsurface wastewater treatment and disposal systems. The property was evaluated in accordance with North Carolina statutes for waste disposal ("Laws and Rules for Sewage Treatment and Disposal Systems", amended April 1, 2017).

INVESTIGATION METHODOLOGY & SITE PHYSICAL CHARACTERISTICS

Individual soil borings were evaluated, and soil color was determined with a Munsell Soil Color Chart. Observations of the landscape (slope, drainage patterns, etc.) as well as soil properties (depth, texture, structure, seasonal wetness, restrictive horizons, etc.) were recorded.

The project study area is currently undeveloped and is vegetated by a mixed deciduous forest. Several unsuitable landscape features, as well as Mecklenburg County Water Quality Buffers, were observed through GIS data layers and at the time of our evaluation. These features are depicted in the attached Figure 1.

FINDINGS

A field survey was conducted on February 11, 2021 by Michael Wood, LSS, Larry Thompson, LSS, and Ethan Wood, ES. Nineteen soil borings were advanced, and their locations noted in the attached figure.

All soil borings were rated as Provisionally Suitable for the installation of subsurface wastewater treatment and disposal systems utilizing Accepted System drainfield product and are denoted in the attached Figure as green points. Surfaces typically exhibited friable to firm sandy loam to sandy clay loam textures with weak, medium, granular to subangular blocky structure 2 to 19 inches in depth. Lower subsurface horizons exhibited firm clay textures with moderate, medium, subangular blocky structure to a depth of 28 to 40+ inches. A long-term acceptance rate (LTAR) of 0.3 gal./day/sq. ft. would be recommended for these soils.

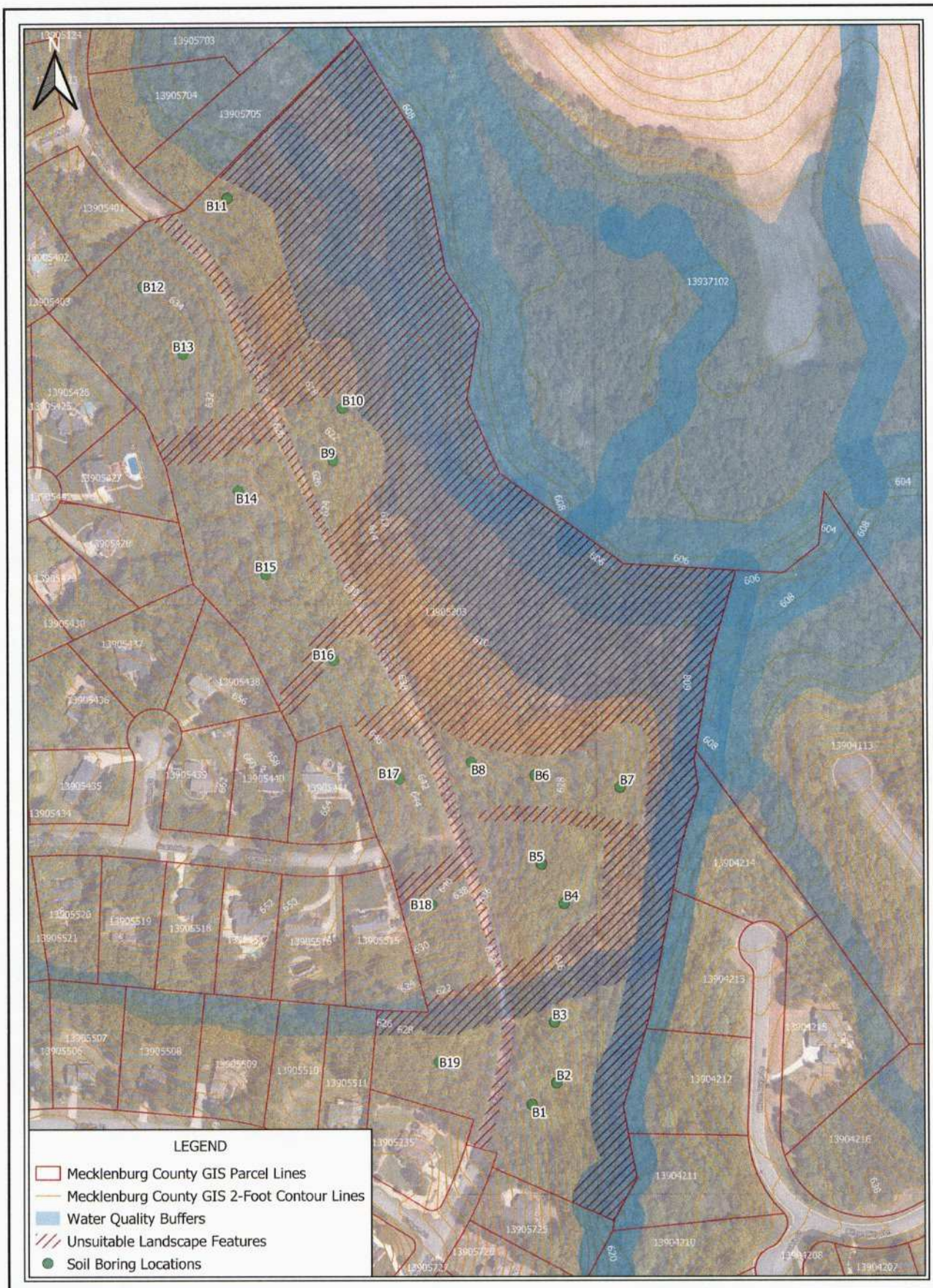
DISCUSSION

The soils observed within the project study area will support the installation of a subsurface wastewater treatment and disposal systems utilizing Accepted System drainfield product. It is estimated that 7,000 square feet of suitable soil area would need to be allocated and left completely available for the installation of, and the proposed repair of, an Accepted Septic System for a 4-bedroom single-family residence. An additional 25% reduction in square footage can be realized using a Prefabricated Permeable Block Panel System (PPBPS).

Based on GIS calculations, there is approximately 362,000 square feet of Provisionally Suitable soil within the project study area.

CONCLUSION

The findings presented herein represent TEC's professional opinion based on our Soil and Site Evaluation and knowledge of the current laws and rules governing on-site wastewater systems in North Carolina. Soils naturally change across a landscape and contain many inclusions. As such, attempts to quantify them are not always precise and exact. Due to this inherent variability of soils and the subjectivity when determining limiting factors, there is no guarantee that a regulating authority will agree with the findings of this report.



Thompson Environmental Consulting

Prepared For:

Catawba Lands Conservancy

Preliminary Soil and Site Evaluation

Mecklenburg County Parcel ID: 13905203
Brookgreen Drive
Charlotte, NC 28212

Mecklenburg County

Date: February 2021

Scale: 0 100 200 ft

TEC Job #: 21-42

Figure 1

MECKLENBURG COUNTY
LAND USE AND ENVIRONMENTAL SERVICES
Payment Receipt

Receipt Information

Date: 03/09/22
Receipt #: 134584
Check / Auth #: VISA 06512D
Received By: CABANLA

Amount: 250.00
Tendered: 250.00
Returned: 0.00

Account Information

Account #: 200000
Contractor: WILSON, DOUGLAS
Attn:
Address:
Address:
City/State/Zip: ,

Item	Description	Permit#	Quantity	Unit Price	Total Price
0701	Improvment Permit App-Residen 8714 BROOKGREEN DR (1)		1	250.00	250.00

----------Outstanding Balances----------

Month-To-Date	Prior Month	30 Days	60 Days	90 Days	Balance

#12929

SUPERVISOR/ADMINISTRATIVE PROFESSIONAL CHECKLIST

NEW SEPTIC ☒ NEW WELL ☐ USE EXISTING ☐ MODIFIED PLOT PLAN ☐

New Septic Fees Paid

IP ($250.00) AR 7.9.22 Initial/Date

CA ($200.00) _____Initial/Date

OP ($200.00) _____Initial/Date

(CA and OP fees need to be paid before a building permit can be issued)

New Well Fees Paid: $550.00 _____ Initial/Date

Use Existing Fees Paid: $100.00 _____Initial/Date

Alteration Fees Paid: $300 Total $200 _____Initial/Date (If use existing was part of payment)

Modified Plot Plan Fees Paid: $100.00 _____Initial/Date

Floor plans need to be submitted and reviewed before CA can be issued ☐ Review ☐

This site is served by septic and well. Verify each is complete before final hold is released ☐

Septic file complete ☐_____ Well complete ☐ _____

Send permit for signature ☐ Signature received ☐ _____

This septic system requires a certified operation contract before final hold is released ☐

Certified operator contract is on file ☐ _____