Supervisor/Administrative Professional Checklist

New Septic [X] New Well [ ] Use Existing [ ] Alteration [ ] Modified Plot Plan [ ]

New Septic Fees Paid:

IP ($250.00) 7/7/16 LE Initials/Date

CA ($200.00) _____ Initials/Date

OP ($200.00) _____ Initials/Date

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

New Well Fee Paid: $550.00 _____ Initials/Date

Use Existing Fee Paid: $100.00 _____ Initials/Date

Alteration Fee Paid: $300.00 (Total) $200 (If use existing was paid)_____ Initials/Date

Modified Plot Plan Fee Paid: $100.00 _____ Initials/Date

Floor plans need to be submitted and reviewed before CA can be issued. [✓] Reviewed [ ] ____

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

Septic file completed. [ ] _____ Well file completed. [ ] _____

Send permit for signature. [✓] Signature received. [✓] _____

This septic system requires a certified operator contract before final hold is released. [ ]

Certified operator contract is on file. [ ] _____

95208 #8350

7 JUL '16 AM 11:30

MECKLENBURG COUNTY
HEALTH DEPARTMENT

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: 02323116

STREET ADDRESS: 1117 Mountain Island Dr. East

CITY: Charlotte

STATE: NC **ZIP:** 28216

SUBDIVISION NAME:

LOT #: 2 **LOT SIZE (acres):** 0.61

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: 1,500

NUMBER OF BEDROOMS: 2

NUMBER OF OCCUPANTS: 4

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? 6/18/65 ☐ UNKNOWN

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

12. PROPERTY OWNER:

NAME: David Holland
ADDRESS: 11107 Mountain Island Dr. East
CITY: Charlotte
STATE: NC ZIP: 28216
WORK PHONE:
MOBILE PHONE:
FAX:
E-MAIL:

13. OWNER'S LEGAL REPRESENTATIVE, IF APPLICABLE:

NAME: Michael Athanas and Associates
ADDRESS: 561 Ennis Road
CITY: Weddington
STATE: NC ZIP: 28173
WORK PHONE: (704) 576-3887
MOBILE PHONE:
FAX:
E-MAIL: scott@michaelathanas.com

MECKLENBURG COUNTY – GROUNDWATER & WASTEWATER SERVICES
700 N. TRYON ST. SUITE 211 CHARLOTTE, NC 28202, OFFICE: 704-336-5103, FAX: 704-336-6894

Revised on: 12/15/10

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.

SK (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.

_____ (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.

Matt Hennes
Property Owner's or Owner's Legal Representative Signature

7/7/16
Date

OFFICE USE ONLY

○ SURVEY PLAT TO SCALE SUBMITTED ○ SCALED SITE PLAN SUBMITTED ○ 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
700 N. TRYON ST. SUITE 211 CHARLOTTE, NC 28202, OFFICE: 704-336-5103, FAX: 704-336-6894

Revised on: 12/15/10

File #: _____

PROPOSED PLOT PLAN

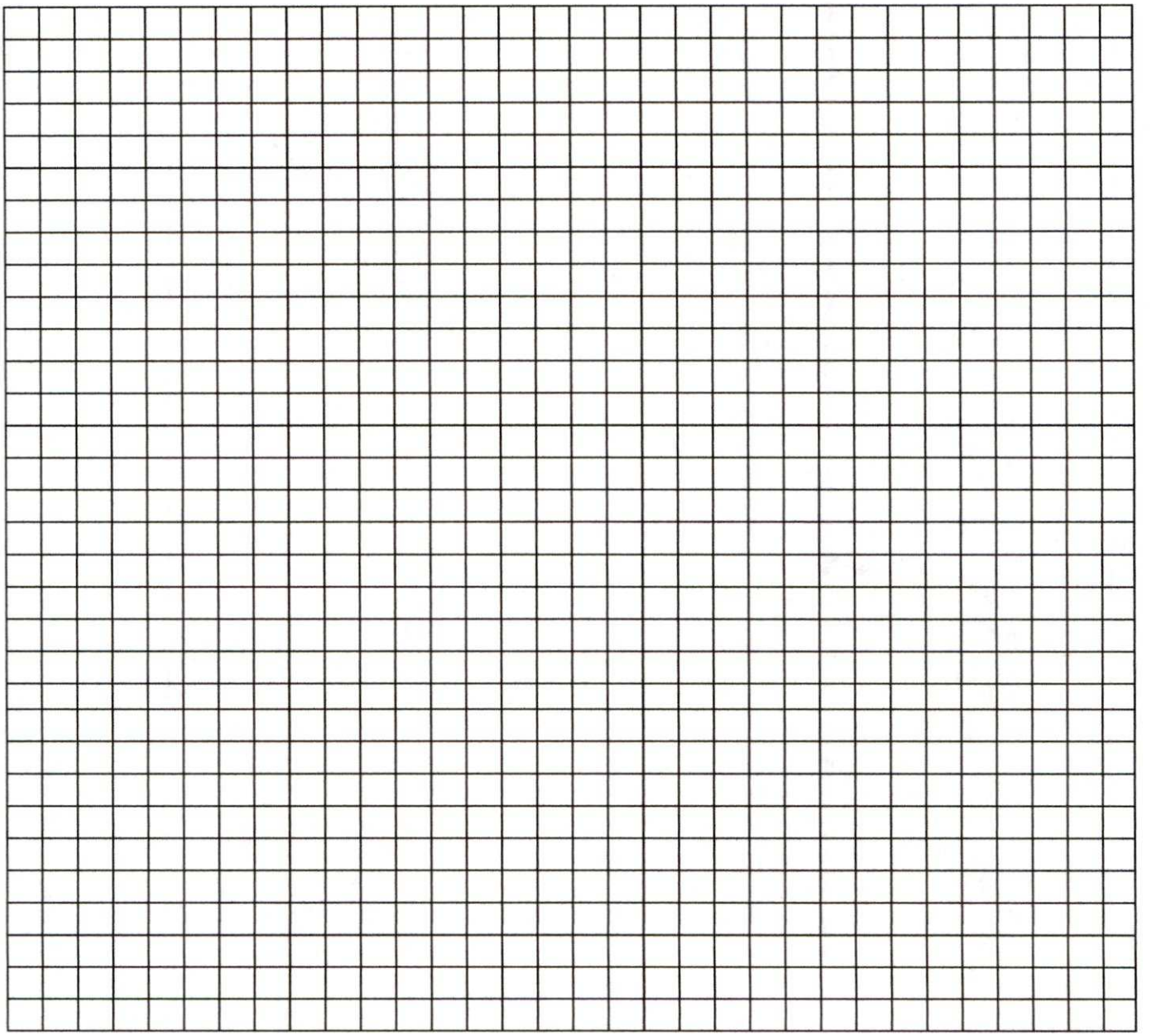
A drawing showing the locations of the following items is required: existing and proposed property lines with dimensions, easements or right-of-ways, proposed building pad(s) or existing building footprint(s), all appurtenances (garage, driveway, deck, pool, etc.), location of existing or proposed well(s), location of existing or proposed sewer lines and sewage disposal systems, surface water bodies, and any aboveground or underground storage tanks. Provide names for all roads that adjoin the property.

Street Address: 1117 Mountain Island Drive East

Tax Parcel #: 02323116

Subdivision Name: _____

Lot #: 2



Property Owner's or Owner's Legal Representative Signature

7/7/14
Date

MECKLENBURG COUNTY – GROUNDWATER & WASTEWATER SERVICES
700 N. TRYON ST. SUITE 211 CHARLOTTE, NC 28202, OFFICE: 704-336-5103, FAX: 704-336-6894

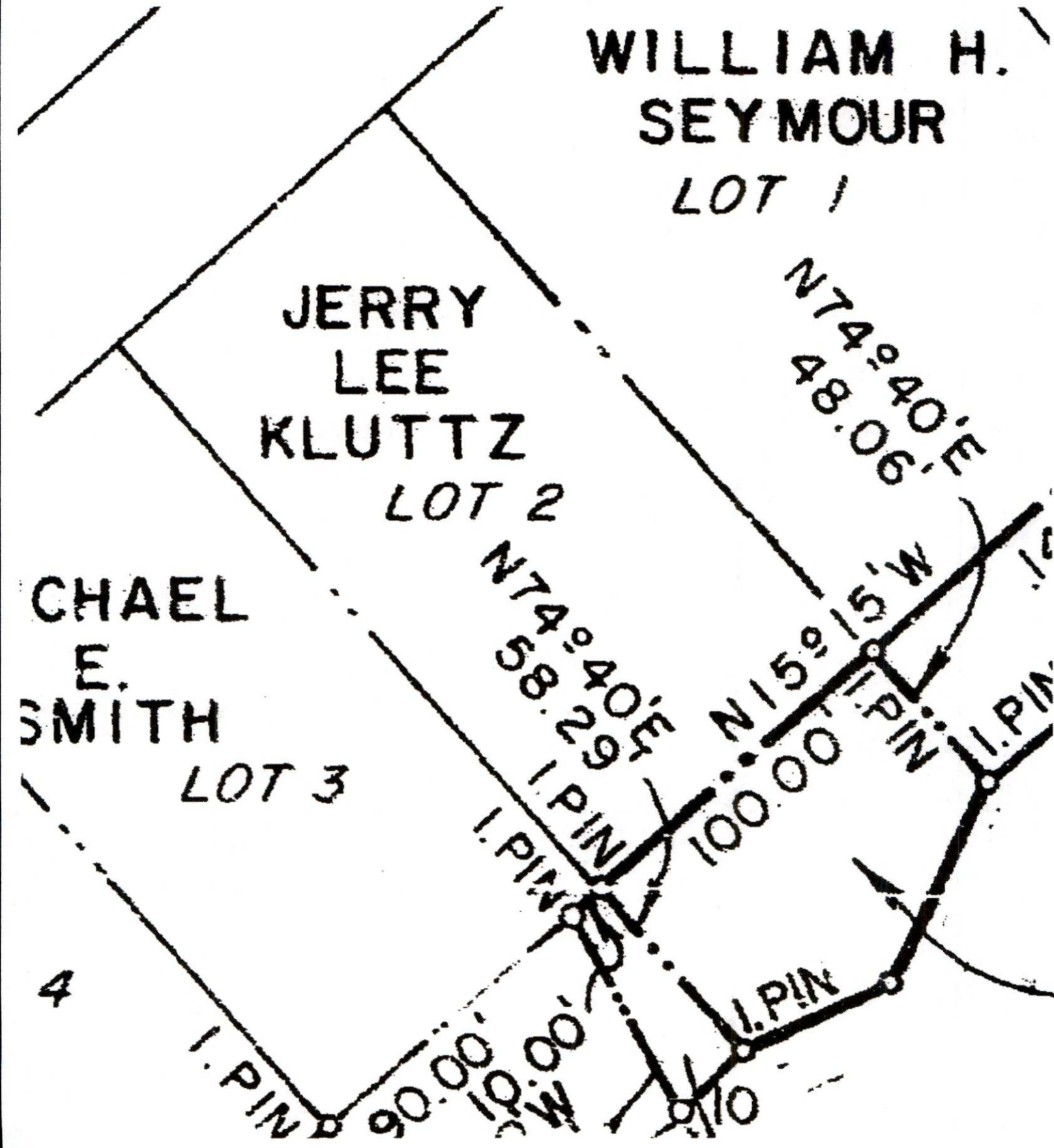
Revised on: 12/15/10

Polaris 3G Map – Mecklenburg County, North Carolina

Date Printed: 7/7/2016 8:57:36 AM



This map or report is prepared for the inventory of real property within Mecklenburg County and is compiled from recorded deeds, plats, tax maps, surveys, planimetric maps, and other public records and data. Users of this map or report are hereby notified that the aforementioned public primary information sources should be consulted for verification. Mecklenburg County and its mapping contractors assume no legal responsibility for the information contained herein.


WILLIAM H.
SEYMOUR
LOT 1
JERRY
LEE
KLUTTZ
LOT 2
CHAEL
E.
SMITH
LOT 3
4
N74°40'E
48.06'
N74°40'E
58.29'
N15°15'W
100.00'
I.PIN
I.PIN
I.PIN
I.PIN
I.PIN
I.PIN
90.00'
10.00'
10

MECKLENBURG COUNTY
Health Department

E. Winters Mabry, MD
Director

(704) 432-3199

Addendum to Application for
New Well or Septic System Installation
Abandonment or Repair of Existing Well or Septic System

Your signature below confirms the following:

1. The information on the application is true, complete and accurate.
2. Authorized county and state officials are granted right of entry to conduct necessary inspections to determine compliances with applicable laws and rules.
3. I acknowledge that Michael Athanas is acting as my legal representative (agent) in the submittal of the application for a water supply well or septic permit located at 11117 Mountain Island Dr. East, Charlotte, NC
   Number Street Town
   (Or Parcel Number)

David Holland
Property Owner (print name)

David Holland
Property Owner (signature)

6/22/2016
Date

MECKLENBURG COUNTY
LAND USE AND ENVIRONMENTAL SERVICES
Payment Receipt

Receipt Information

Date:	07/07/16	**Amount:**	250.00
Receipt #:	101011	**Tendered:**	250.00
Check / Auth #:	CHECK 1232	**Returned:**	0.00
Received By:	ELLISLW		

Account Information

Account #: 200000
Contractor: MICHAEL ATHANAS & ASSOCIATES, I
Attn:
Address: 561 ENNIS RD
Address:
City/State/Zip: WAXHAW, NC 28173

Item	Description	Permit#	Quantity	Unit Price	Total Price
0701	Improvment Permit App-Residen 1117 MOUNTAIN ISLAND DR EAST		1	250.00	250.00

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

Month-To-Date	Prior Month	30 Days	60 Days	90 Days	Balance
550.00					



MICHAEL ATHANAS & ASSOCIATES
LICENSED SOIL SCIENTIST
561 Ennis Rd.
Weddington, NC 28173
(704) 576-3887

Reference: Data Sheet for 11117 Mountain Island Drive East; Parcel ID#: 02323116 Mecklenburg Co., NC

House Footprint: Existing with a 30'x 30' addition
Building Setback: 25' Front, 15' Side, 50' Rear
Water Source: Private Well
Number of Bedrooms: 3/360 GPD
Proposed LTAR: 0.225 gpd/ft2
Suggested System Type: 25% Reduction
Distribution: Pressure Manifold
Flow per Tap: 5.48 GPM ½" SCH80
Tap Size and Material: ½" SCH80
System Flow: 27.4 GPM
Dosing Volume: 175.00 Gallons
Pump Run Time: 6.39 minutes
Elevation Head: 14.4'
Friction Head: 6.69'
Pressure Head: 2'
Total Dynamic Head: 23.09'
Supply Line Length: 140'
Septic/Pump Tank Size: 1000/1000
Proposed Trench Bottom: 18"

GWS Septic System Design Review

GWS File #: 9520B

	Approved	Disapproved
Design Review:	☑	☐
Field Review:	☑	☐

*Projects are not considered "APPROVED" until both sections above are completed and indicate an APPROVED status.

Line	Design Length	Actual Length	Elevation
Pink 1	**80'**	**81'**	**6.4'**
Blue 2	**80'**	**80'**	**7.3'**
Orange 3	**80'**	**80'**	**8.4'**
Pink 4	**80'**	**80'**	**9.5'**
Blue 5	**80'**	**80'**	**10.1'**
Orange 6		76'	11.2'
Pink 7		46'	12.2'
Blue 8		20'	12.8'

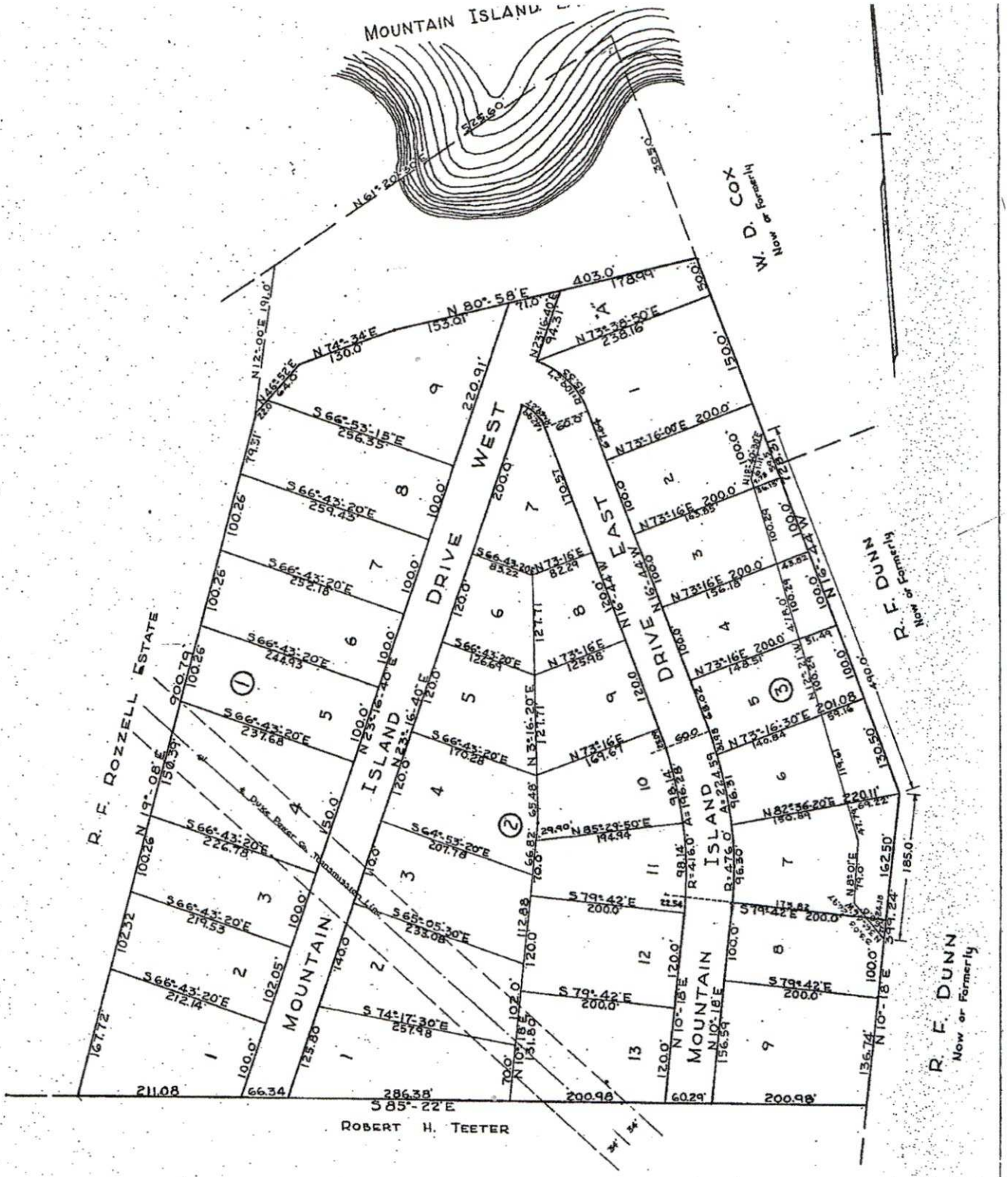
Groundwater & Wastewater Services: Septic Project File & D

GWS File #:	9520B
WASPS App #:	8350
Primary ES assigned to project:	Jeremy Michelone
Secondary ES assigned to project:	
Project Type:	New System
Site Evaluation Information: .1939(a)(1) - Topography and Landscape Position Recorded?	Yes
Site Evaluation Information: .1940(a-g) - Slope % Recorded?	Yes
Site Evaluation Information: .1939(a)(2) - Texture Class Recorded?	Yes
Site Evaluation Information: .1939(a)(2) - Structure Type Recorded?	Yes
Site Evaluation Information: .1939 (a)(2) - Consistence Recorded?	Yes
Site Evaluation Information: .1939(a)(2) - Mineralogy Recorded?	Yes
Site Evaluation Information: .1939(a)(3) - Soil Wetness Condition Recorded?	Yes
Site Evaluation Information: .1939(a)(4) - Soil Depth to Rock or Parent Material Recorded when Encountered?	Yes
Site Evaluation Information: .1939(a)(5) - Depth to Restrictive Horizons Recorded when Encountered?	N/A
Site Evaluation Information: .1939(a)(6) - Sufficient Available Space Recorded?	Yes
Site Evaluation Information: .1937(m) - Are the Profile Locations Shown?	Yes
Site Evaluation Information: .1939(a) - Are the S/PS Profiles in system & in repair area?	Yes
Site Evaluation Information: .1939(d), .1955, .1956, .1957 - LTAR	Yes
Improvement Permit/Construction Authorization: .1937(g), 130A-336(a) - Proposed System Type stated - Initial	Yes
Improvement Permit/Construction Authorization: .1945(b) - Proposed System Type stated - Repair	Yes
Improvement Permit/Construction Authorization: 130A-336(a)(3) - System location identifiable by setbacks - Initial	Yes
Improvement Permit/Construction Authorization: .1937(g), .1945(b) - System components shown - Initial	Yes
Information Permit/Construction Authorization: .1945(b) - Repair area shown	Yes
Improvement Permit/Construction Authorization: .1937(f)(g) - Does System design match facility, flow & WW characteristics?	Yes
Improvement Permit/Construction Authorization: .1937(f)(g) - Is System design consistent with soil/site conditions?	Yes
Improvement Permit/Construction Authorization: .1937(f)(g) - Is the System located in the approved area?	Yes
Improvement Permit/Construction Authorization: 130A-336(a) - Number of Bedrooms, employees, seats, etc. indicated?	Yes
Improvement Permit/Construction Authorization: .1937 (g) - Trench depth correct?	Yes
Improvement Permit/Construction Authorization: .1937(g) - Trench width correct?	Yes
Improvement Permit/Construction Authorization: .19379(g) - Trench length correct?	Yes
Improvement Permit/Construction Authorization: 130A-336(a)(1) - Proposed/existing well shown?	Yes

Improvement Permit/Construction Authorization: 130A-336(a)(1) - Property line lengths shown?	Yes
Improvement Permit/Construction Authorization: 130A-336(a) - Facility/appurtenance setbacks shown from fixed points?	Yes
Corrections/modifications needed?	No
Comments:	
IA issued date:	
OP Issued date:	
Review performed by:	Jeremy Michael
Date performed:	8/18/2016

Created at 8/18/2016 9:10 AM by Michael, Jeremy
Last modified at 8/18/2016 9:10 AM by Michael, Jeremy

Close



MAP & SURVEY

OF

MOUNTAIN ISLAND LAKE VIEW

PAW CREEK TOWNSHIP — MECKLENBURG COUNTY, N. C.

Scale 1" = 100' — August 18, 1955

Office of J.W. Spratt, County Surveyor

By W. B. Brewer Deputy C.S.

NOTE: Iron stakes at all Lot corners

NOTE:

Lots 2,3,4,5,6,7,8, in Block B subject to Duke Power Company Riparian Water Rights as Shown by lines in Red.

{ Filed 23 Aug. 1955 at 10:55 A.M.
J. R. RENFROW, Register of Deeds }

Department of Environment, Health, and Natural Resources
Division of Environmental Health
On-site Wastewater Section

Sheet: 1 of 2
Property ID: 023-231-16
Lot #: 2
File #: 9520B
AppID: 8350

SOIL/SITE EVALUATION for ON-SITE WASTEWATER SYSTEM

Owner: Shelly Dudan
Address: 11107 Mountain Island Dr East, Charlotte, NC 28216
Proposed Facility: 2BR House
Design Flow (.1949): 240 GPD
Location of Site: 11117 Mountain Island Dr East, Charlotte, NC 28216
Water Supply: [ ] Public [X] Individual [X] Well [ ] Spring [ ] Municipal
Evaluation Method: [ ] Auger Boring [X] Pit [ ] Cut
Type of Wastewater: [X] Sewage [ ] Industrial Process [ ] Mixed

Applicant: owner
Date Evaluated: 7/13/2016
Property Size: 0.61 ac
Property Recorded: 6/18/1965

PROFILE #	.1940 Landscape Position/ Slope%	Horizon Depth (IN.)	SOIL MORPHOLOGY .1941 .1941 Structure/ Texture	.1941 Consistence Mineralogy	b PROFILE FACTORS .1942 Soil Wetness/ Color	.1943 Soil Depth (IN.)	.1956 Sapro Class	.1944 Restr Horiz	General Comments	Profile Class & LTAR	Maximum Trench Bottom Depth for 3' Wide Conventional Trench
Pit #1	LS 8%	0 - 8	gr L	SS SP FR SEXP	>60"	50	PS	NA	manganese 18 - 50" saprolite inclusions 36 - 50"	PS IV 0.225	36"
		8 - 26	sbk CL	S P FR SEXP							
		26 - 50	sbk C	S P FI SEXP							
		50 - 60	mass L Sap	SS SP FR SEXP							
Pit #2	LS 8%	0 - 6	gr L	SS SP FR SEXP	>54"	50	PS	NA	manganese 18 - 54" saprolite inclusions 44 - 54"	PS IV 0.225	36"
		6 - 20	sbk CL	S P FR SEXP							
		20 - 44	sbk C	S P FI SEXP							
		44 - 54	sbk SCL	SS SP FR SEXP							
Pit #3	LS 8%	0 - 6	Fill		>60"	48	PS	NA	manganese 18 - 48" saprolite inclusions 38 - 48"	PS IV 0.225	36"
		6 - 12	gr L	SS SP FR SEXP							
		12 - 26	sbk CL	S P FR SEXP							
		26 - 38	sbk C	S P FI SEXP							
		38 - 48	sbk SCL	SS SP FR SEXP							
		48 - 60	mass L Sap	SS SP FR SEXP							

Description	Initial System	Repair System
Available Space (.1945)		
System Type(s)		
Site LTAR (gpd/sq ft)	**0.225**	**0.225**

Other Factors (.1946):
Soil Evaluation By: Jacob Presley, LSS, REHS
Others Present:
Site Classification (.1948):
Site Evaluation By:
Others Present:

COMMENTS:

Sheet: 2 of 2
File #: 9520B
AppID: 8350

Landscape Position	Group	Texture	.1955 LTAR	Structure
R-Ridge	I	S-Sand	1.2 - 0.8	sg-Single Grain
SS-Shoulder Slope		LS-Loamy Sand		mass-Massive
LS-Linear Slope				cr-Crumb
FS-Foot Slope	II	SL-Sandy Loam	0.8 - 0.6	gr-Granular
NS-Nose Slope		L-Loam		sbk-Subangular Blocky
HS-Head Slope				abk-Angular Blocky
CC-Concave Slope	III	Si-Silt	0.6 - 0.3	pl-Platy
CV-Convex Slope		SiCL-Silty Clay Loam		pr-Prismatic
T-Terrace				Sap-Saprolite
FP-Flood Plain		CL-Clay Loam		**Structure Prefixes**
D-Drainage Way		SCL-Sandy Clay Loam		w-weak
				m-moderate
		SiL-Silt Loam		s-strong
				f-fine
	IV	SC-Sandy Clay	0.4 - 0.1	m-medium
		SiC-Silty Clay		c-coarse
		C-Clay		

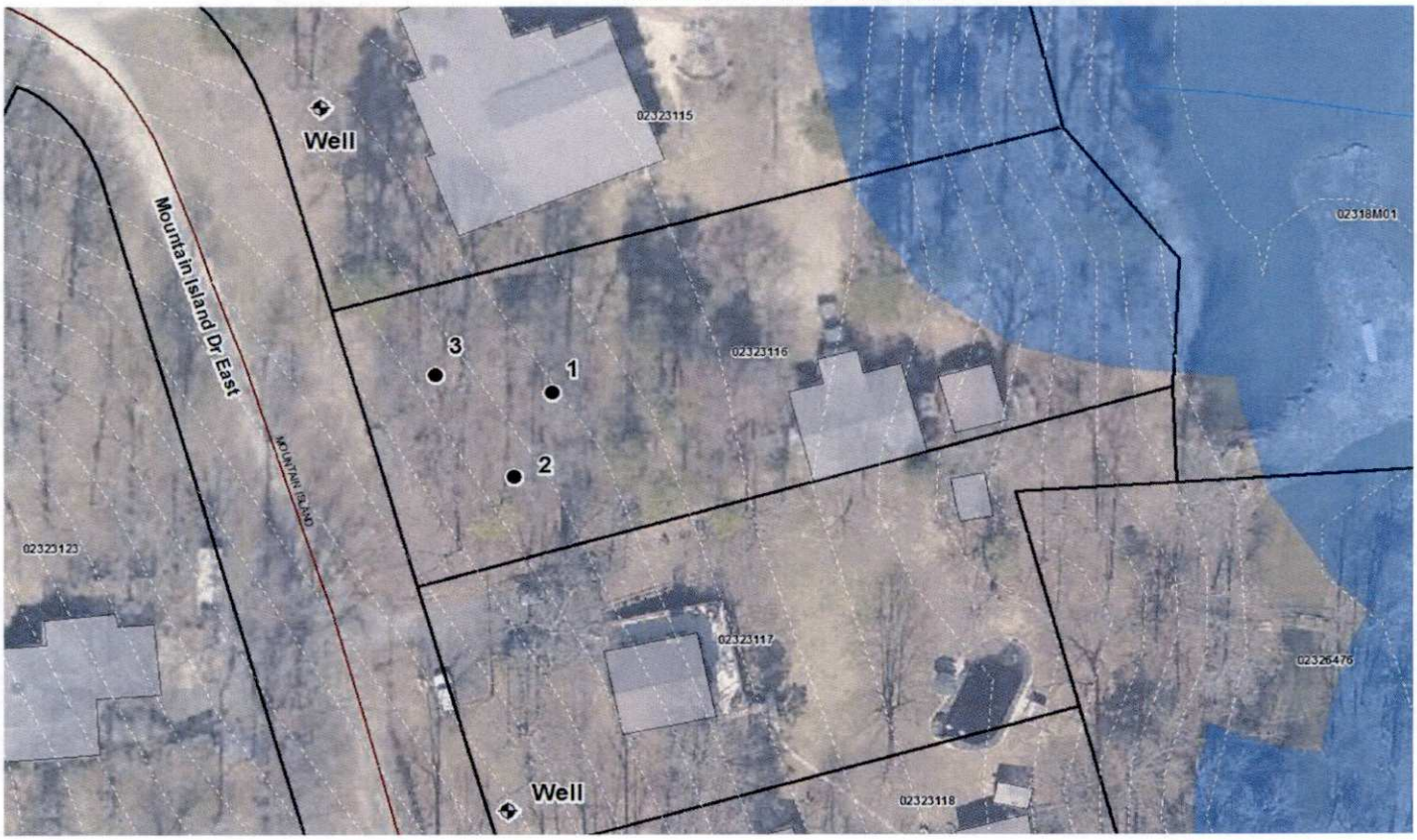
Consistence
Moist
VFR-Very Friable
FR-Friable
FI-Firm
VFI-Very Firm
EFI-Extremely Firm

Consistence
Wet
SS-Slightly Sticky
S-Sticky
VS-Very Sticky
NP-Non-Plastic
SP-Slightly Plastic
P-Plastic
VP-Very Plastic

Mineralogy
SEXP-Slightly Expansive
EXP-Expansive

Classification
US-Unsuitable
PS-Provisionally Suitable
S-Suitable
NA-Not Applicable

Sketch of Soil Evaluation Locations



PID: 023-231-16
FILE #
APP ID:



Drawn By:
Date:

1 inch = 50 feet

Department of Environment, Health, and Natural Resources
Division of Environmental Health
On-site Wastewater Section

Sheet: 1 of 2
Property ID: 023-231-16
Lot #: 2
File #: 9520B
AppID: 8350

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for ON-SITE WASTEWATER SYSTEM

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Applicant: owner
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Evaluation Method: [ ] Auger Boring [X] Pit [ ] Cut
Type of Wastewater: [X] Sewage [ ] Industrial Process [ ] Mixed

PROFILE #	.1940 Landscape Position/ Slope%	Horizon Depth (IN.)	SOIL MORPHOLOGY .1941 .1941 Structure/ Texture	.1941 Consistence Mineralogy	b PROFILE FACTORS .1942 Soil Wetness/ Color	.1943 Soil Depth (IN.)	.1956 Sapro Class	.1944 Restr Horiz	General Comments	Profile Class & LTAR	Maximum Trench Bottom Depth for 3' Wide Conventional Trench
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		8 - 26	sbk CL	S P FR SEXP							
		26 - 50	sbk C	S P FI SEXP							
		50 - 60	mass L Sap	SS SP FR SEXP							
Pit #2	LS 8%	0 - 6	gr L	SS SP FR SEXP	>54"	50	PS	NA	manganese 18 - 54" saprolite inclusions 44 - 54"	PS IV 0.225	36"
		6 - 20	sbk CL	S P FR SEXP							
		20 - 44	sbk C	S P FI SEXP							
		44 - 54	sbk SCL	SS SP FR SEXP							
Pit #3	LS 8%	0 - 6	Fill		>60"	48	PS	NA	manganese 18 - 48" saprolite inclusions 38 - 48"	PS IV 0.225	36"
		6 - 12	gr L	SS SP FR SEXP							
		12 - 26	sbk CL	S P FR SEXP							
		26 - 38	sbk C	S P FI SEXP							
		38 - 48	sbk SCL	SS SP FR SEXP							
		48 - 60	mass L Sap	SS SP FR SEXP							

Description	Initial System	Repair System
Available Space (.1945)	PS	PS
System Type(s)	III b	III b
Site LTAR (gpd/sq ft)	**0.225**	**0.225**

Other Factors (.1946):
Soil Evaluation By: Jacob Presley, LSS, REHS
Others Present:
Site Classification (.1948): Provisionally Suitable
Site Evaluation By: Jeremy Michelone, REHS
Others Present: David Holland

COMMENTS:

Landscape Position	Group	Texture	.1955 LTAR	Structure
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HS-Head Slope				abk-Angular Blocky
CC-Concave Slope	III	Si-Silt	0.6 - 0.3	pl-Platy
CV-Convex Slope		SiCL-Silty Clay Loam		pr-Prismatic
T-Terrace		CL-Clay Loam		Sap-Saprolite
FP-Flood Plain		SCL-Sandy Clay Loam		**Structure Prefixes**
D-Drainage Way		SiL-Silt Loam		w-weak
				m-moderate
				s-strong
				f-fine
	IV	SC-Sandy Clay	0.4 - 0.1	m-medium
		SiC-Silty Clay		c-coarse
		C-Clay		

Consistence Moist	Consistence Wet	Mineralogy
VFR-Very Friable	SS-Slightly Sticky	SEXP-Slightly Expansive
FR-Friable	S-Sticky	EXP-Expansive
FI-Firm	VS-Very Sticky	
VFI-Very Firm	NP-Non-Plastic	**Classification**
EFI-Extremely Firm	SP-Slightly Plastic	US-Unsuitable
	P-Plastic	PS-Provisionally Suitable
	VP-Very Plastic	S-Suitable
		NA-Not Applicable

Sketch of Soil Evaluation Locations



DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES
DIVISION OF ENVIRONMENTAL HEALTH
ON-SITE WASTEWATER SECTION

PROPERTY ID #: Parcel # 02323116; 11117 Mountain Island Dr East
COUNTY: Mecklenburg

SOIL/SITE EVALUATION
for ON-SITE WASTEWATER SYSTEM

OWNER: David Holland APPLICATION DATE
ADDRESS: 11107 Mountain Island Drive East Charlotte, NC 28214 DATE EVALUATED: 7/2016
PROPOSED FACILITY: 3-Bedroom Residence PROPOSED DESIGN FLOW (.1949): 360 GPD PROPERTY SIZE: 0.61 Acres
LOCATION OF SITE: 11117 Mountain Island Drive East PROPERTY RECORDED: 8/23/1955
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)		OTHER PROFILE FACTORS				PROFILE CLASS & LTAR
			.1941 STRUCTURE/ TEXTURE	.1941 CONSISTENCE/ MINERALOGY	.1942 SOIL WETNESS/ COLOR	.1943 SOIL DEPTH	.1956 SAPRO CLASS	.1944 RESTR HORIZ	
AB 1	L 3-4 %	0"-8"	Br CL WSBK	SS SP FR SEXP	34" Few Mn concentrations 8"-34"	34" Common Mn and other redox features at 34"		None	0.25-0.225
		8"-34"	RBr C WSBK	SS SP FR SEXP					
Pit 1	L 3-4%	0"-10"	Br CL WSBK	SS SP FR SEXP	Common Mn concentrations 34"-39"	58"		None	0.25-0.225
		10"-39"	RBr C WSBK	SS SP FR SEXP					
		39"-58"	V SL Saprolite M	NS NP VFR NEXP					
Pit 2	L 3-4%	0"-7"	Br CL WSBK	SS SP FR SEXP	Chr. 2 at 41"	41"		None	0.25
		7"-31"	RBr C WSBK	SS SP FR SEXP					
		31"-41"	YBr CL WSBK	SS SP FR SEXP					
Pit 3	L 3-4%	0"-12"	Br CL WSBK	SS SP FR SEXP	Common Mn concentrations 28"-35"	48"		None	0.25
		12"-35"	RBr C WSBK	SS SP FR SEXP					
		35"-48"	R CL WSBK	SS SP FR SEXP					
		48"-60"	V SL Saprolite M	SS SP FR SEXP					

DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM
Available Space (.1945)	1623 ft2	None
System Type(s)	25% Reduction w/ no reduction	Platted prior to 1983
Site LTAR	0.225	n/a

OTHER FACTORS (.1946):
SITE CLASSIFICATION (.1948):

EVALUATED BY: Michael Athanas and Associates
OTHER(S) PRESENT:

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)				
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.

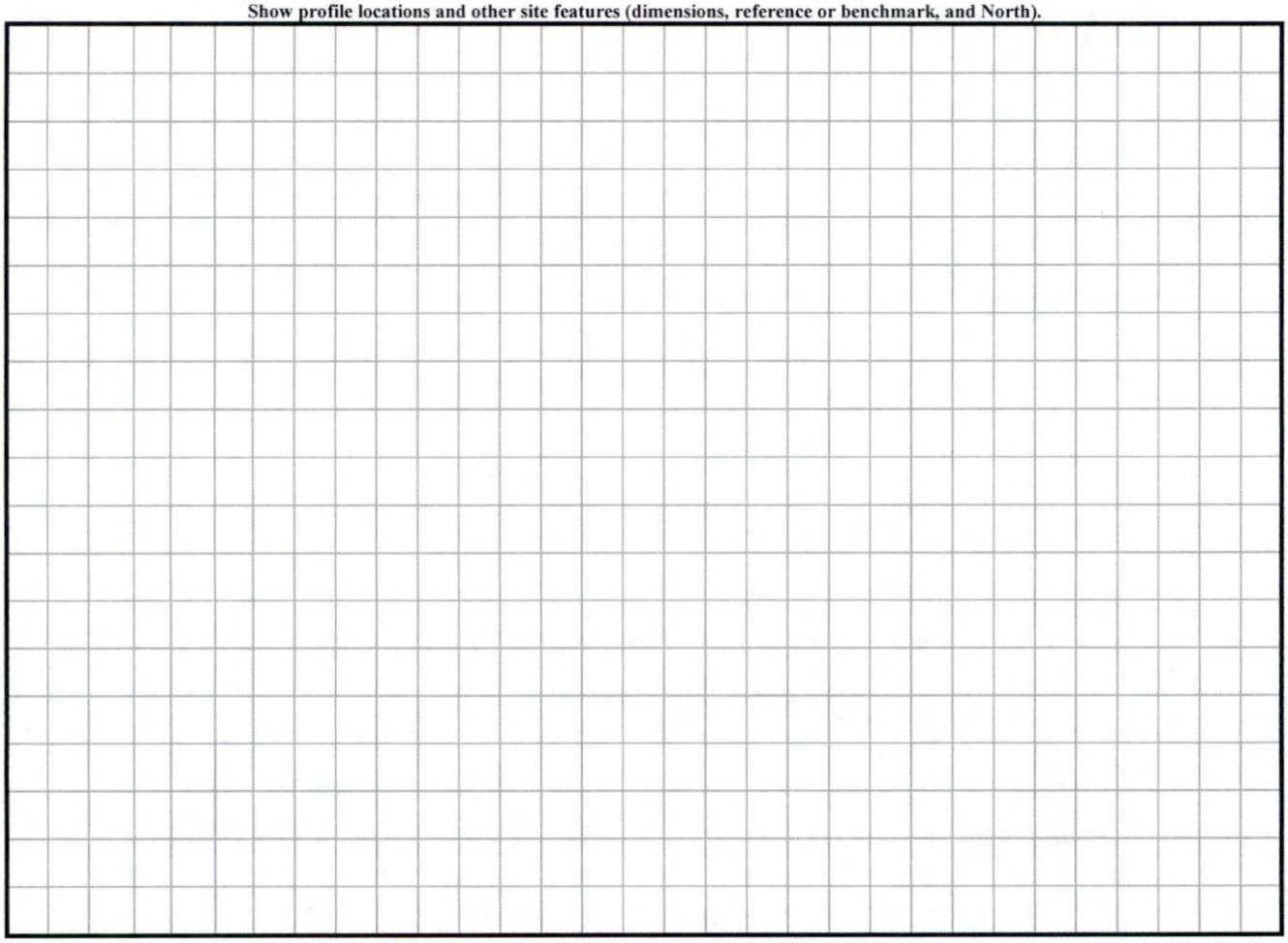
NOTES

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/ft^2

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



DENR (######)

Review (#####)

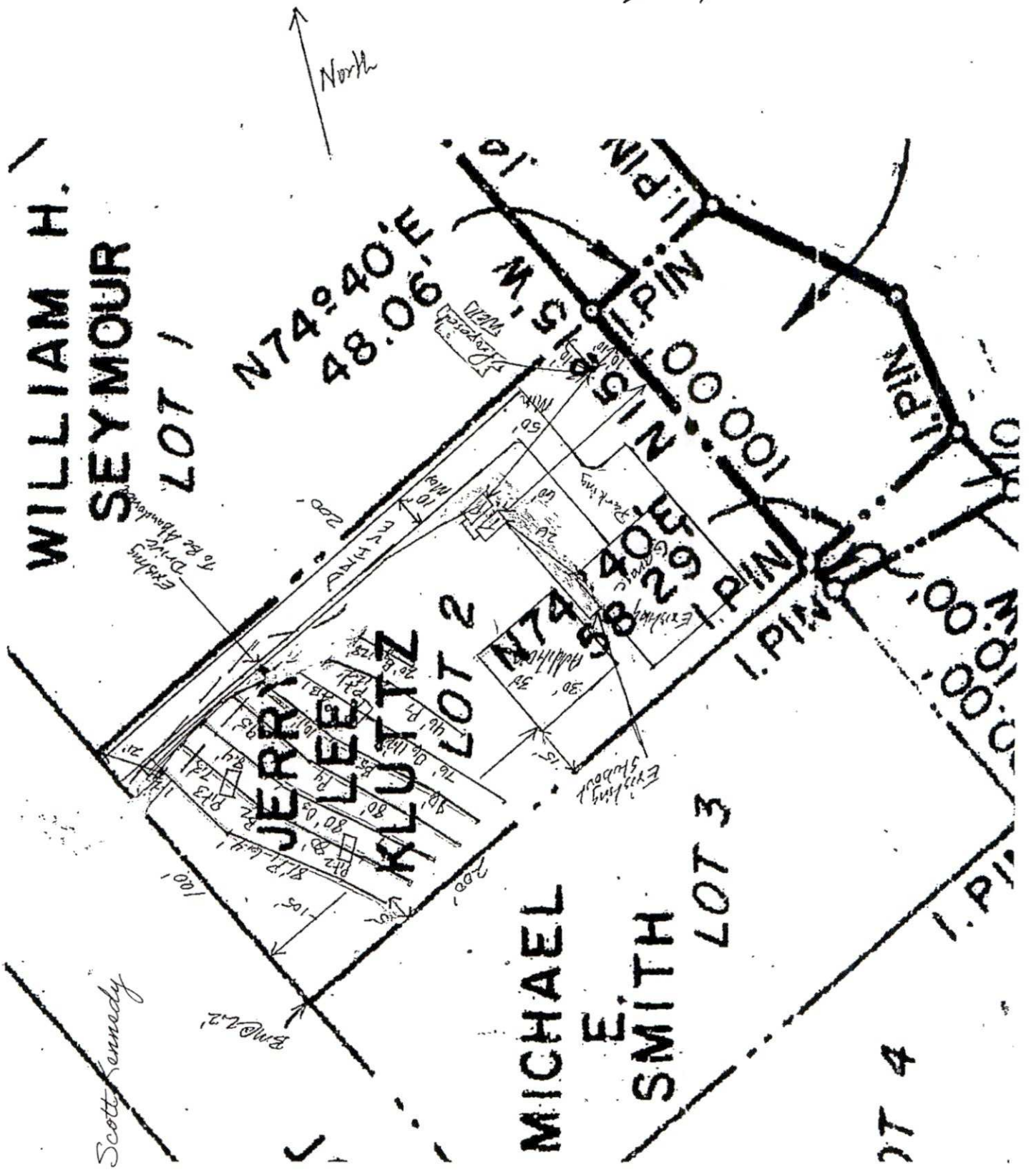
Initial System: 400' 25% Reduction
Repair System: Not required due to being platted prior to 1983. See attached plat from 1955. There is approximately 142' of repair shown.
Benchmark: 2.2' at front right iron **House Corner:** 16.7' **Pump Tank:** 15.8' **PM**: 6.4'

Comments:

- The purpose of this evaluation is to permit the property for a 3-bedroom residence.
- MA&A evaluated the site using backhoe pits and auger borings.
- A small portion of the septic area is under the existing driveway. This driveway will be abandoned. A new driveway will be located near the property line and be a maximum of 10' wide, as shown on the site plan.
- A new well should be located at the rear of the property as shown on the site plan.
- The trees should be removed to the site with minimal soil disturbance.

Scale 1"=40'

Scott Kennedy for Michael Athanas
Designed by Michael Athanas and Assoc.



X Signature

Mecklenburg County Groundwater & Wastewater Services
700 N. Tryon St, Suite 211 Charlotte, NC 28202
Phone: (704) 336-5103 Fax: (704) 336-6894

NC DENR
Division of Environmental Health
On-Site Wastewater Section

IMPROVEMENT PERMIT for a RESIDENTIAL ON-SITE WASTEWATER TREATMENT & DISPOSAL SYSTEM

Permit #: **30008350** GWS File #: **9520B** Tax Parcel #: **023-231-16**

- This IMPROVEMENT PERMIT is subject to revocation if site plans or the intended use change. There is to be **NO** grading, filling, or disturbance of the soil in the area of the septic tank system or repair area.
- CONSTRUCTION AUTHORIZATION must be obtained prior to receiving a Building Permit. The Construction Authorization is **NOT** transferable. Do not clear, grade, fill or disturb soil prior to obtaining a Construction Authorization.
- Domestic-type wastewater only. No industrial process wastewater may be discharged into the system.

I. This Improvement Permit Shall: Expire in Five (5) Years **Expiration Date (If Applicable):** 8/16/2021

Type of Installation: Residential - New System Lot Number: 2

Structure Type: HOUSE Size (ft^2): 1500 # Bedrooms: 3 # Occupants: 4

Building Foundation: Concrete Slab Water Supply: Private Well

II. Initial System Type: Pump to Accepted **System Classification:** IIIb

Initial System Specifications:

Design Flow (gpd):	360	LTAR (gpd/ft^2):	0.225	Septic Tank Size (gal):	1000	Pump Tank Size (gal):	1000
Trench Width (ft):	3	Trench Spacing (ft):	9	Absorption Area (ft^2):	1200	Total Trench Length (ft):	400
Maximum Trench Depth (in):	36	Depth of Media (in):	12	Distribution Device:	Pressure Manifold		

III. Repair System Type: Pump to Accepted **System Classification:**

Repair System Specifications:

Design Flow (gpd):	360	LTAR (gpd/ft^2):	0.225	Septic Tank Size (gal):	1000	Pump Tank Size (gal):	1000
Trench Width (ft):	3	Trench Spacing (ft):	9	Absorption Area (ft^2):	1200	Total Trench Length (ft):	400
Maximum Trench Depth (in):	36	Depth of Media (in):	0	Distribution Device:	Pressure Manifold		

IV. Permit Conditions/Comments:

(Please See the Following Page for Permit Conditions.)

The undersigned, an authorized agent of the STATE OF NORTH CAROLINA, certifies that the Department is issuing an IMPROVEMENT PERMIT for the above referenced property. This permit is being issued in accordance with the *Laws and Rules For Sewage Treatment, and Disposal Systems* and is subject to the following provisions:

- No work shall be conducted on the septic system until a Pre-Construction meeting has been completed by the Department.
- The septic system installer shall be a licensed septic contractor with the North Carolina Wastewater Contractor Inspector Certification Board.
- The permitted system shall be installed in accordance with the included PLOT PLAN.
- This IMPROVEMENT PERMIT is transferable.

Authorized Agent: Jeremy Michelone Owner/Legal Agent: J Scott Kennedy

Signature: Jeremy Michelone, REHS Signature: J. Scott Kennedy (Print Name)

Date Issued: 8/16/2016

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IMPROVEMENT PERMIT for a RESIDENTIAL ON-SITE WASTEWATER TREATMENT & DISPOSAL SYSTEM

Permit #: **30008350** GWS File #: **9520B**

IV. Permit Conditions/Comments:

- This type of septic system requires an inspection once every 5 years by our office. The system owner is responsible for any fees, as determined by the Mecklenburg County Board of Commissioners, associated with this inspection.
- 100% repair area is not required for this property. However, the maximum feasible area shall be allocated for a repair area.
- This Improvement Permit is being issued based on a supplemental soil investigation performed by staff from our office.
- The septic system shall be installed in accordance with the plans submitted by the wastewater system design consultant.
- All components of the septic system must be installed in accordance with the required setbacks listed on the corresponding plot plan.
- All components of the septic system must be located at least 100 ft. (50 ft. minimum) from all private wells.
- All waterlines must be located a minimum of 10 ft. from any part of the septic system.
- All components of the septic system must be located a minimum distance from the normal pool elevation or mean high water mark for the nearby body of water. See plot plan for minimum setback requirements.
- Upon completion of the project the system designer shall provide Groundwater & Wastewater Services with a letter certifying that the system was installed in accordance with the approved design.
- Flow from all gutters and downspouts shall be directed not to discharge water onto or across any part of the septic system.

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Authorized Agent: Jeremy Michelone

Signature: [signature]

Date Issued: 8/16/2016

Owner/Legal Agent: J Scott Kennedy
Print Name

Signature: J. Scott Kennedy

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IMPROVEMENT PERMIT for a RESIDENTIAL ON-SITE WASTEWATER TREATMENT & DISPOSAL SYSTEM

Permit #: **30008350** GWS File #: **9520B** Tax Parcel #: **023-231-16**

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- CONSTRUCTION AUTHORIZATION must be obtained prior to receiving a Building Permit. The Construction Authorization is **NOT** transferable. Do not clear, grade, fill or disturb soil prior to obtaining a Construction Authorization.
- Domestic-type wastewater only. No industrial process wastewater may be discharged into the system.

I. This Improvement Permit Shall: Expire in Five (5) Years **Expiration Date (If Applicable):** 8/16/2021

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Building Foundation: Concrete Slab Water Supply: Private Well

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Initial System Specifications:

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Trench Width (ft):	3	Trench Spacing (ft):	9	Absorption Area (ft^2):	1200	Total Trench Length (ft):	400
Maximum Trench Depth (in):	36	Depth of Media (in):	12	Distribution Device:	Pressure Manifold		

III. Repair System Type: Pump to Accepted **System Classification:**

Repair System Specifications:

Design Flow (gpd):	360	LTAR (gpd/ft^2):	0.225	Septic Tank Size (gal):	1000	Pump Tank Size (gal):	1000
Trench Width (ft):	3	Trench Spacing (ft):	9	Absorption Area (ft^2):	1200	Total Trench Length (ft):	400
Maximum Trench Depth (in):	36	Depth of Media (in):	0	Distribution Device:	Pressure Manifold		

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Authorized Agent: Jeremy Michelone Owner/Legal Agent: _____
Print Name

Signature: _____ Signature: _____

Date Issued: 8/16/2016

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- This Improvement Permit is being issued based on a supplemental soil investigation performed by staff from our office.
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- The septic system installer shall be a licensed septic contractor with the North Carolina Wastewater Contractor Inspector Certification Board.
- The permitted system shall be installed in accordance with the included PLOT PLAN.
- This IMPROVEMENT PERMIT is transferable.

Authorized Agent: Jeremy Michelone

Signature: _____

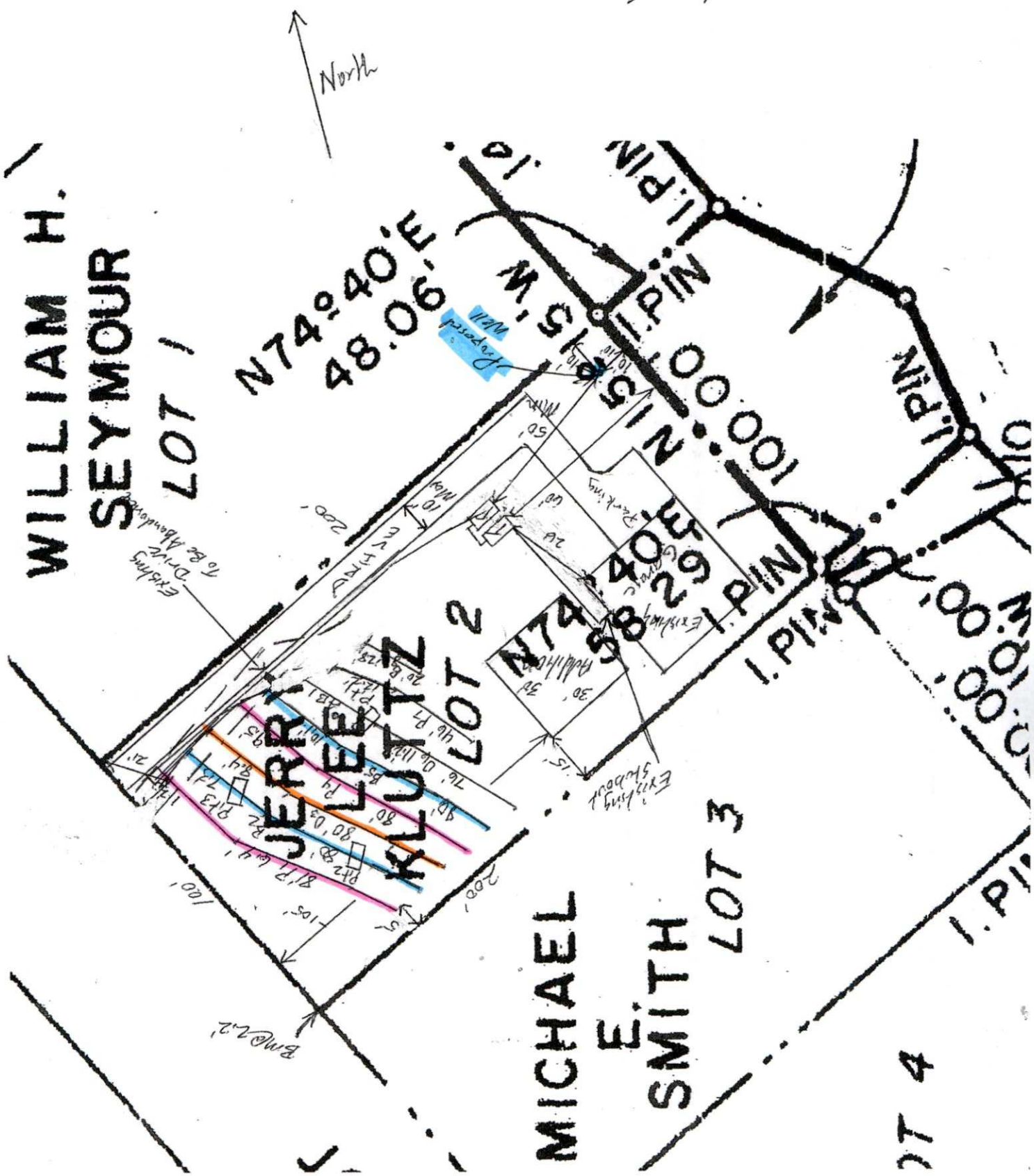
Date Issued: 8/16/2016

Owner/Legal Agent: _____
Print Name

Signature: _____

Scale 1"=40'

Jeff Kennedy for Michael Athanas
Designed by Michael Athanas and Assoc.



X Signature

Mecklenburg County Groundwater & Wastewater Services
700 N. Tryon St., Suite 211 Charlotte, NC 28202
Phone: (980) 314-1680 Fax: (704) 336-6894

NC DHHS
Division of Environmental Health
On-Site Wastewater Section

OPERATION PERMIT for an ON-SITE WASTEWATER TREATMENT & DISPOSAL SYSTEM

File #: 9520B Permit #: _____ Tax Parcel #: 023-231-16

Property Owner: David Holland

Job Location Address: 11107 Mountain Island Dr. East

City: Charlotte State: NC Zip Code: 28214

Operation Permit Issuance Date: 3-27-17 Contractor Name: Stevens Septic

Permitted Design Flow: 360 GPD Liquid Capacity of Dosing Tank: 1000 gallons

Liquid Capacity of Septic Tank: 1006 gallons Manufacture _____ Effluent Pump Model: Liberty 280 ½ hp

Drainfield Installation ☐ N/A

Trench Depth: 18 inches

Trench Width: 3 feet

Line Spacing: 9 feet (O.C.)

Total line length: 400 feet

# of Lines: 5 @ 80 feet

Depth of Media: 12 inches (Type) ARC36, BIOA36 chambers

Depth of Cover: 6 inches

Distribution Device: Pressure Manifold

Bed Installation *(For Repair Installations ONLY.)* ☒ N/A

Bed Depth: _____ inches

Bed Width: _____ feet

Total line length: _____ feet

# of Lines: _____ @ _____ feet

Depth of Media: _____ inches (Type) _____

Depth of Cover: _____ inches

Distribution Device: _____

Water Supply Source

☐ Municipal ☒ Private Well ☐ Community Well

☐ Other _____

System Installation Setbacks

Distance from Building Foundation: 38 feet

Distance from Property Line: 5 feet

Distance from Water Supply Source: 56' feet

Inspection Dates

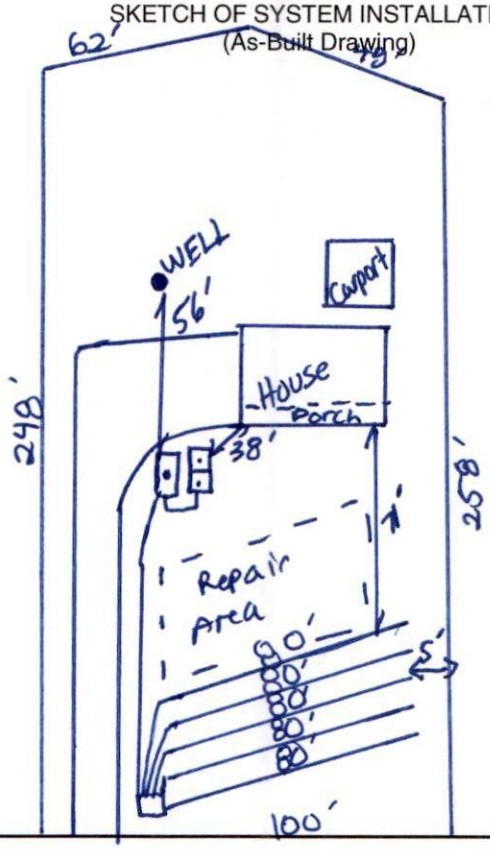
Tank(s) Inspected: 3-24-2017 JM

Excavation Inspected: 3-24-2017 JM

Pump & Controls Inspected: 3-27-17

3-24-17 2 Ft Head Pressure set JM

SKETCH OF SYSTEM INSTALLATION
(As-Built Drawing)



The undersigned has inspected the Septic Tank System described above, and certifies it has been ☒ installed ☐ altered ☐ repaired ☒ as detailed in the plot above ☐ in accordance with the permit issued and meets the provisions of 15A NCAC 18A. 1900, "Laws and Rules for Sewage Treatment and Disposal Systems" in effect on the date of issuance of the permit. The issuance of this Operation Permit does not in any way guarantee that the system will operate properly or relieve any person now or hereafter owning, controlling, or using such system from any liability resulting from the failure of the system to operate properly. This document is issued subject to those restrictions and conditions shown on the permit(s) and the provisions of 15A NCAC 18A. 1900 in addition to those listed below under "Comments." This document shall be null and void if any information contained in the application is untrue or if any additions are made to the property which would increase the requirements for said system.

Notice: Disturbance of the designated repair area may result in the Suspension or Revocation of this permit.

Comments: System Classification & Type: III b, BIOA36, P, N/A, N/A.

DHHS Authorized Agent: Jeremy Michael Signature: Jeremy Michael

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NC DENR
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On-Site Wastewater Section

OPERATION PERMIT for an
ON-SITE WASTEWATER TREATMENT & DISPOSAL SYSTEM

File #: 9520B Permit #: _____ Tax Parcel #: 023-231-16

Property Owner: David Holland

Job Location Address: 11107 Mountain Island Dr. East

City: Charlotte State: NC Zip Code: 28214

OPERATION PERMIT CONDITIONS:

I. Performance: System shall perform in accordance with 15A NCAC 18A .1961.

II. Monitoring: System shall be monitored as required by 15A NCAC 18A .1961.

III. Maintenance: Ground absorption sewage treatment and disposal systems shall be checked, and the contents of the septic tank removed, periodically from all compartments, to ensure proper operation of the system. The contents shall be pumped whenever the solids level is found to be more than 1/3 of the liquid depth in any compartment.

IV. Operation: System shall be operated in accordance with 15A NCAC 18A .1961.

System Classification: IIIb

*Operation Permits for Type V and VI systems expire five (5) years from the date of issuance (in accordance with Table V(a)). The system owner must contact GWS six (6) months prior to expiration for permit renewal.

Subsurface system operator required: Yes ☐ No ☑

☐ This type of system requires the system owner to maintain a contract with a certified operator to perform system inspection, maintenance, and reporting as required in 15A NCAC 18A .1961. and Table V(a). The system owner is responsible for all fees associated with these services.

☐ System does not require inspection by GWS on a routine frequency.

☑ System requires inspection by GWS once every five (5) years. The system owner is responsible for all fees associated with the inspection.

☐ System requires inspection by GWS once every three (3) years. The system owner is responsible for all fees associated with the inspection.

☐ System requires inspection by GWS once every twelve (12) months. The system owner is responsible for all fees associated with the inspection.

☐ System requires inspection by GWS once every six (6) months. The system owner is responsible for all fees associated with the inspection.

V. Other:

DENR Authorized Agent: Jeremy Michael Date: 3-27-17

Signature: Jeremy Michael

Mecklenburg County Groundwater & Wastewater Services
700 N. Tryon St., Suite 211 Charlotte, NC 28202
Phone: (980) 314-1680 Fax: (704) 336-6894

Septic System Pre-Construction Meeting Checklist

File # 95208 App # 8350 Tax Parcel # 023-231-16

Property Owner: David Holland

Job Location Address: 11117 Mt. Island Drive East

City: Charlotte State: NC Zip Code: 28216

1. Does System design match facility, flow & wastewater characteristics?

   ☒ YES ☐ NO

   Comments: _____

2. Is there sufficient available space for the septic systems initial and repair areas?

   ☒ YES ☐ NO

   Comments: _____

3. Can the septic system be installed per the permit conditions and drawing on file?

   ☒ YES ☐ NO

   Comments: _____

* If "NO" is checked for any of the above the existing permit may need to be revoked.

Permission is hereby given to ☐ install ☐ alter ☐ repair an on-site wastewater treatment & and disposal system, with subsurface soil absorption and effluent discharge meeting all of the construction requirements of 15A NCAC 18A .1900 which are in effect on the date of granting this approval. **System shall not be installed while soils are in wet condition.**

Authorized Agent — Date: 3/23/17

Others Present