SUPERVISOR/ADMINISTRATIVE PROFESSIONAL CHECKLIST

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

* Cross Fit Gym designed for 670 GPD

New Septic Fees Paid

Commercial $450 88 10/11/22

IP ($250.00) _____ 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 ☒ Sent 11/22/22 LP Signature received ☑ 11/20/22

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

Certified operator contract is on file ☐ _____

Groundwater & Wastewater Services: Septic Project File & D

GWS File #:	11515B
WASPS App #:	13436
Primary ES assigned to project:	Heather Ray
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?	Yes
Site Evaluation Information: .1939(a)(6) - Sufficient Available Space Recorded?	No
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?	N/A
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:	Michelone
Date performed:	11/21/2022

Created at 11/21/2022 2:29 PM by Michelone, Jeremy
Last modified at 11/21/2022 2:29 PM by Michelone, Jeremy

Close

MECKLENBURG COUNTY
LAND USE AND ENVIRONMENTAL SERVICES
Payment Receipt

Receipt Information

Date:	10/11/22	**Amount:**	450.00
Receipt #:	138046	**Tendered:**	450.00
Check / Auth #:	VISA 097384	**Returned:**	0.00
Received By:	PLACILJ		

Account Information

Account #: 200000
Contractor: JEREMY MARTIN
Attn: ULTIMATE ATHLETE
Address:
Address:
City/State/Zip: ,

Item	Description	Permit#	Quantity	Unit Price	Total Price
0735	Improv Permit Appl-Comm 15901 CRAMUR DR		1	450.00	450.00

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

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

11515B
#13436

11 OCT '22 PM 3:55

MECKLENBURG COUNTY
HEALTH DEPARTMENT

APPLICATION FOR A COMMERCIAL 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: 001-023-70

STREET ADDRESS: 15901 Cramur Dr

CITY: Huntersville

STATE: NC **ZIP:** 28278

TOWNSHIP:

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

4. **BUILDING INFORMATION:**

DESCRIBE TYPE OF BUSINESS: GYM

◉ COMMERCIAL ○ INDUSTRIAL

SQUARE FOOTAGE OF FACILITY: 5,000

NUMBER OF EMPLOYEES PER SHIFT: 3

NUMBER OF SHIFTS: 3 **NUMBER OF SEATS:** 0

TYPE OF WASTEWATER GENERATED:

◉ DOMESTIC SEWAGE ○ INDUSTRIAL WASTEWATER
○ OTHER _____

5. ***IF PLANNING TO EXPAND OR ALTER THE EXISTING SEPTIC SYSTEM, INFORMATION DOCUMENTING THE INCREASED WASTEWATER FLOW AND/OR A JUSTIFICATION FOR SYSTEM ALTERATION IS REQUIRED.*** ☑ N/A

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?** 6/3/20 ☐ UNKNOWN

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

12. **PROPERTY OWNER:**

NAME: Shirley Keistler
ADDRESS: 15905 Cramur Dr
CITY: Huntersville
STATE: NC ZIP: 28078
WORK PHONE: _____
MOBILE PHONE: _____
FAX: _____
E-MAIL: _____

13. **OWNER'S LEGAL REPRESENTATIVE, IF APPLICABLE:**

NAME: Jeremy Martin - Ultimate Athlete
ADDRESS: 6426 Jim Kidd Rd
CITY: Huntersville
STATE: NC ZIP: 28078
WORK PHONE: _____
MOBILE PHONE: (704) 577-1402
FAX: _____
E-MAIL: jmartin@ultathlete.com

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.

JM (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.

JM (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.

Jeremy Martin
Property Owner's or Owner's Legal Representative Signature

10/11/2022
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
3205 Freedom Dr. Suite 8000, Charlotte, NC 28208 OFFICE: (980) 314-1680, FAX: 704-336-6894

Revised on: 03/27/19

File #: _____

PROPOSED PLOT PLAN

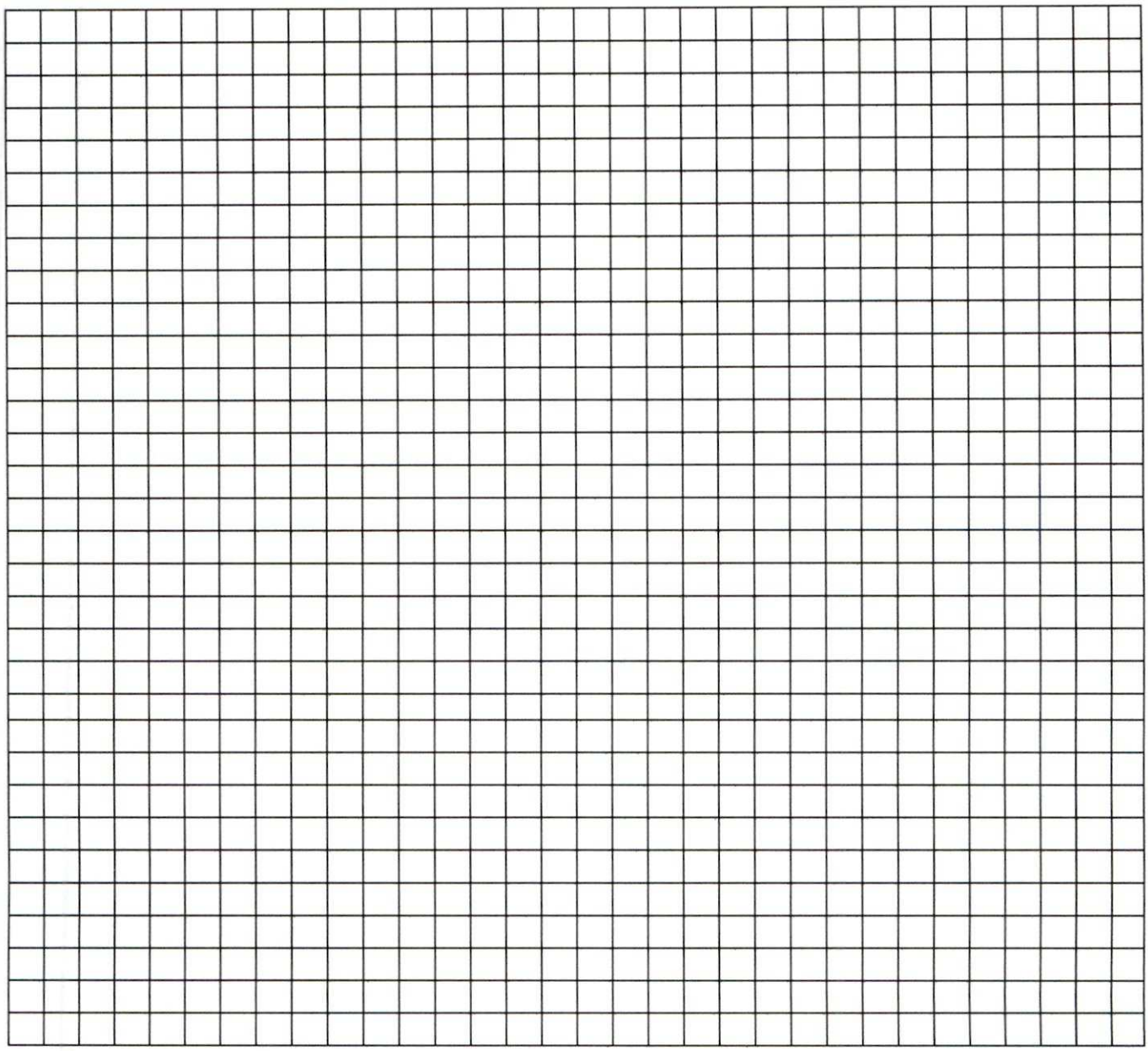
A drawing showing the locations of the following items is required: existing and proposed property lines with dimensions, easements or right-of-ways, proposed building pad(s) or existing building footprint(s), all appurtenances (garage, driveway, deck, pool, etc.), location of existing or proposed well(s), 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: 15901 Cramur Dr

Tax Parcel #: 001-023-70

Subdivision Name: _____

Lot #: 1



Jeremy Martin

Property Owner's or Owner's Legal Representative Signature

10/11/2022

Date

MECKLENBURG COUNTY
Health Department

Raynard Washington, PhD, MPH
Health Director

(704) 336-4700

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 Jeremy Martin - Ultimate Athlete is acting as my legal representative (agent) in the submittal of the application for a water supply well or septic permit located at

15901 Cramur Drive Huntersville
Number Street Town
(Or Parcel Number)

SHIRLEY TIA KEISTLER
Property Owner (print name)

10-3-22
Date

Noble Bryan, Trustee
Property Owner (signature)
Shirley Keistler Trust U/A D
10/31/2003

NOTES

SET #4 REBAR AT ALL CORNERS UNLESS OTHERWISE NOTED.

AREAS COMPUTED BY COORDINATE METHOD.

THIS PROPERTY MAY BE SUBJECT TO ANY EASEMENTS AND/OR RIGHT-OF-WAYS.

SUBJECT TRACT ADDRESS: 15901 & 15905 CRAMUR DRIVE

SUBJECT TRACT DEED REFERENCE: DB 17228 PG 907 & DB 17228 PG 904

SUBJECT TAX PARCEL: 00102318 & 00102317

SUBJECT TRACT ZONED: GR & NC

THE NCGS COORDINATES WERE ESTABLISHED BY USING A LEICA MODEL GS14 (GNSS) AND THE NORTH CAROLINA GLOBAL NAVIGATION SATELLITE SYSTEM (GNSS) REAL TIME NETWORK (RTN) UTILIZING THE NORTH CAROLINA CONTINUOUSLY OPERATING REFERENCE STATION (CORS)

THE PURPOSE OF THE FINAL PLAT IS TO INDICATE THE ENFORCEABLE RESTRICTIONS ON PROPERTY USAGE THAT RUN WITH THE LAND TO ENSURE THAT FUTURE DEVELOPMENT AND REDEVELOPMENT MAINTAINS THE SITE IN COMPLIANCE WITH ORDINANCE REQUIREMENTS. THE RESTRICTIONS ON THIS RECORDED FINAL PLAT SHALL BE SHOWN ON ANY SURVEY OF ANY OF THE PROPERTIES WITHIN THE PLAT. PROPERTY OWNERS HAVE RECORD NOTICE OF THESE RESTRICTIONS AND SHALL MAINTAIN THE SITE IN COMPLIANCE WITH ORDINANCE REQUIREMENTS. IT IS RECOMMENDED THAT REAL ESTATE PROFESSIONALS (SURVEYORS, TITLE COMPANY REPRESENTATIVES, REAL ESTATE AGENTS, CLOSING ATTORNEYS) MAKE PROPERTY OWNERS OR PURCHASERS AWARE OF THESE RESTRICTIONS AT OR PRIOR TO CLOSING

GARAGES WILL MEET THE REQUIREMENTS OF ARTICLE 6.16 IN TOWN OF HUNTERSVILLE ZONING ORDINANCE.

DEVELOPMENT OF PROPERTIES IS SUBJECT TO THE TOWN OF HUNTERSVILLE SEDIMENT AND EROSION CONTROL ORDINANCE. CONTACT THE TOWN OF HUNTERSVILLE TO DETERMINE IF DEVELOPMENT THRESHOLDS REQUIRE ADDITIONAL PLAN APPROVAL.

THE POST-CONSTRUCTION STORM WATER (WATER QUALITY) ORDINANCE MAY APPLY IF EITHER OF THESE LOTS IS REDEVELOPED. CONTACT THE STORM WATER ADMINISTRATOR FOR A DETERMINATION.

WATERSHED: LAKE NORMAN CRITICAL AREA

LOT 1 (15901 CRAMUR DRIVE) IS SERVED BY CHARLOTTE WATER FOR SEWER.

BUA TABLE

LOT	AREA	% BUA ALLOWED	BUA OBSERVED/MEASURED	BUA REMAINING
1	67,836 SF	24%	BUILDING = 6,730.24 SF WELL HOUSE = 31.46 SF ASPHALT DRIVE = 10,155.43 ASPHALT PARKING= 7,533.71 SF CONCRETE= 330.35 SF GRAVEL = 1994.71 SF TOTAL= 26,776.80 SF	9,906.42 SF
2	55,825 SF	24%	HOUSE =2824.96 CONCRETE DRIVE =2766.59 WALKWAY = 2094.02 SF ASPHALT DRIVE = 1070.50 SF TOTAL= 8,758.07 SF	11,296.06 SF

ZONING: GR
SETBACKS
FRONT=40'
REAR=50'
SIDE=10'

ZONING: NC
SETBACKS
FRONT=N/A
REAR=N/A
SIDE=N/A

EXEMPT SUBDIVISION/RECOMBINATION PLAT

THIS PLAT REPRESENTS A DIVISION OF PROPERTY WITHIN THE JURISDICTION OF THE TOWN OF HUNTERSVILLE THAT MAY OR MAY NOT RESULT IN THE CREATION OF TRACTS OF LAND THAT ARE COMPLIANT WITH THE STANDARDS OF THE ZONING AND SUBDIVISION ORDINANCE. IT IS NOT SUBJECT TO THE PROVISIONS OF THE HUNTERSVILLE SUBDIVISION ORDINANCE AND DOES NOT REQUIRE THE APPROVAL OF THE HUNTERSVILLE BOARD OF COMMISSIONERS. HOWEVER ANY FURTHER SUBDIVISION OF THIS PROPERTY MAY BE SUBJECT TO THESE PROVISIONS.

TOWN OF HUNTERSVILLE
TOWN PLANNER — DATE 6/3/2021

FLOOD CERTIFICATE

I CERTIFY THAT THE SUBJECT TRACT IS GRAPHICALLY LOCATED IN "OTHER AREAS ZONE X" AS DETERMINED BY THE DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT/ FEDERAL INSURANCE ADMINISTRATION AS SHOWN ON THE FEDERAL EMERGENCY MANAGEMENT AGENCY FLOOD INSURANCE RATE MAP COMMUNITY PANEL NUMBER 3710462100J DATED MARCH 2, 2009.

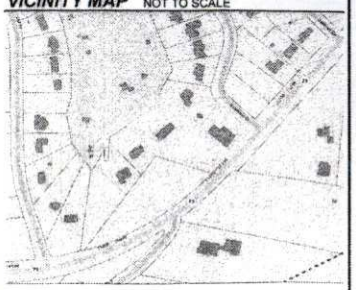
Curve Table

Curve #	Radius	Length	Chord Direction	Chord Length
E-C1	40.00'	79.85'	S15°48'23"E	67.24'
E-C2	60.00'	119.77'	N15°48'23"W	100.85'

Line Table

Line #	Direction	Length
E1	S48°48'31"E	15.00'
E2	S48°37'05"E	15.00'
E3	N41°22'55"E	194.98'
E4	N48°37'05"W	15.00'
E5	S48°37'05"E	15.00'
E6	N41°22'55"E	63.30'
E7	N41°22'55"E	194.98'
E8	S48°37'05"E	20.00'
E9	S41°22'55"W	64.78'
E11	S72°59'41"E	103.65'
E12	S43°45'00"W	22.40'
E13	N72°59'41"W	93.57'
E15	N41°22'55"E	64.78'

VICINITY MAP NOT TO SCALE



NORTH ORIENTED TO
NC GRID NAD 83/2011

0 20 40 80
(IN FEET)
1 inch = 40 ft.

FILED FOR REGISTRATION
JUN 03 2021
AT 1:44 PM
MECKLENBURG COUNTY, N.C.
REGISTER OF DEEDS

MAP BOOK 69 PAGE 10
#2021109643

OWNERSHIP CERTIFICATION

I HEREBY CERTIFY THAT I AM THE OWNER OF THE PROPERTY SHOWN AND DESCRIBED HEREON AND THAT I HEREBY ADOPT THIS PLAN OF SUBDIVISION WITH MY FREE CONSENT, AND DEDICATE ALL STREETS, ALLEYS, WALKS, PARKS, AND OTHER SITES AND EASEMENTS TO PUBLIC OR PRIVATE USE AS NOTED FURTHERMORE, I DEDICATE ALL SEWER LINES AND ALL WATER LINES TO THE CHARLOTTE-MECKLENBURG UTILITY DEPARTMENT, IF APPLICABLE.

OWNER(S) — DATE 6/3/2021

REVIEW OFFICER CERTIFICATION
STATE OF NORTH CAROLINA
MECKLENBURG COUNTY

I, Lauren Speight, REVIEW OFFICER OF MECKLENBURG COUNTY, CERTIFY THAT THE MAP OR PLAT TO WHICH THIS CERTIFICATION IS AFFIXED MEETS ALL STATUTORY REQUIREMENTS FOR RECORDING.

REVIEW OFFICER — DATE 6/8/2021

I, MARK A SMITH, PLS CERTIFY TO ONE OR MORE OF THE FOLLOWING AS INDICATED

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

___ b. THAT THIS PLAT IS OF A SURVEY THAT IS LOCATED IN SUCH PORTION OF A COUNTY OR MUNICIPALITY THAT IS UNREGULATED AS TO AN ORDINANCE THAT REGULATES PARCELS OF LAND;

___ c. THAT THIS PLAT IS OF A SURVEY OF AN EXISTING PARCEL OR PARCELS OF LAND;

X d. THAT THIS PLAT IS OF A SURVEY OF ANOTHER CATEGORY, SUCH AS THE RECOMBINATION OF EXISTING PARCELS, A COURT-ORDERED SURVEY OR OTHER EXCEPTION TO THE DEFINITION OF SUBDIVISION.

___ e. THAT THE INFORMATION AVAILABLE TO THIS SURVEYOR IS SUCH THAT I AM UNABLE TO MAKE A DETERMINATION TO THE BEST OF MY PROFESSIONAL ABILITY AS TO PROVISIONS IN (A) THROUGH (D) ABOVE.

MARK A SMITH, PLS REGISTRATION NO. L-3346

I, MARK A SMITH, CERTIFY THAT THIS PLAT WAS DRAWN UNDER MY SUPERVISION FROM AN ACTUAL SURVEY MADE UNDER MY SUPERVISION (DEED DESCRIPTION RECORDED IN BOOK 17228, PAGE 904 & 907, 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. WITNESS MY ORIGINAL SIGNATURE, LICENSE NUMBER AND SEAL THIS 2nd DAY OF JUNE, A.D., 2021.

MARK A SMITH, PLS (L-3346)

NORTH CAROLINA PROFESSIONAL SEAL L-3346 LAND SURVEYOR MARK A. SMITH

LEGEND

DB = DEED BOOK
EP = EDGE OF PAVEMENT
EIR = EXISTING IRON ROD
IPS = IRON ROD SET
MB = MAP BOOK
NAVD = NORTH AMERICAN VERTICAL DATUM
NCGS = NORTH CAROLINA GEODETIC SURVEY
PG = PAGE
R/W = RIGHT OF WAY
= ACCESS EASEMENT
= FENCE
= RIGHT OF WAY
○ = FOUND MONUMENTATION
● = SET MONUMENTATION
⊕ = COMPUTED POINT
= CONCRETE

BURTON ENGINEERING
5950 FAIRVIEW RD STE 100
CHARLOTTE NC 28210
(T) 704.553.8881
burtonengineering.com
FIRM #C-1157

BURTON ENGINEERING ASSOCIATES, P.C. C-1157

RECOMBINATION SURVEY FOR

OWNER : SHIRLEY A KEISTLER
15901 & 15905 CRAMUR DR.
LEMLEY TWSP, TOWN OF HUNTERSVILLE,
MECKLENBURG COUNTY, NORTH CAROLINA

ESTATE AND ELDER LAW FIRM OF VANDIVER AND BRYAN
PO BOX 1030
DAVIDSON, NC 28036

JCB	MAS	4/1/2021	3/5/2021
DRAWN BY	CHECK BY	DATE	SURVEY DATE

REVISIONS
1 - 5/5/21 COMMENTS FROM EPH
2 - 5/17/21 COMMENTS FROM EPH
3 - 5/21/21 COMMENTS FROM EPH

THIS DRAWING IS THE PROPERTY OF BURTON ENGINEERING ASSOCIATES AND IS NOT TO BE REPRODUCED OR COPIED IN WHOLE OR IN PART. IT IS NOT TO BE USED ON ANY OTHER PROJECT AND IS TO BE RETURNED UPON REQUEST.

PROJECT NUMBER
021.904.001

Sheet 1 of 1

S:\PROJECTS\021.904.001 VANDIVER AND BRYAN 15901 AND 15905 CRAMUR RD HISTORICAL\SURVEY DRAWINGS\021.904.001 VANDIVER 15901 & 15905 CRAMUR DR.DWG, SUBDIVISION, 6/7/2021 1:33:41 PM HP83-PS-DOC.CTB JBRAZELL

B69 - P 10A

FOR REGISTRATION
Fredrick Smith
REGISTER OF DEEDS
Mecklenburg County, NC
2021 JUN 03 01:44:51 PM
BK:69 PG:10-10 14
FEE:$21.00
INSTRUMENT # 2021109643

JONESAW T. Byrum



2021109643

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

PROPERTY ID #: 15901 Cramur Drive; PID#00102370
COUNTY: Mecklenburg

SOIL/SITE EVALUATION
for ON-SITE WASTEWATER SYSTEM

OWNER: Shirley Keistler APPLICATION DATE:
ADDRESS: 15905 Cramur Drive Huntersville, NC 28078 DATE EVALUATED: 9/2022
PROPOSED FACILITY: Fitness Gym PROPOSED DESIGN FLOW (.1949): 670 GPD PROPERTY SIZE: 1.29 Acres
LOCATION OF SITE: Copper Pine Lane, Davidson, NC PROPERTY RECORDED: 6/3/2021
WATER SUPPLY: ☐ Private ☐ Public ☐ Well ☐ Spring ☐ Other
EVALUATION METHOD: Ξ Auger Boring ☐ Pit ☐ Cut TYPE OF WASTEWATER: Ξ 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 2-3 %	0"-27"	R C SBK	SS SP FR SEXP	YBrs 18"+ Chroma 2 at 40"	40"	Few to common saprolite inclusions 27"-40"		0.25
		27"-40"	R SCL WSBK	SS SP FR SEXP					
AB 2	L 2-3 %	0"-8"	Br CL WSBK	SS SP FR SEXP	YBrs 35"+ Common chroma 3 and 4 at 40".	40"			0.25
		8"-40"	R C SBK	SS SP FR SEXP					
AB 3	L 2-3 %	0"-5"	Fill		YBrs 20"+	48"			0.25
		5"-48"	R C SBK	SS SP FR SEXP					
AB 4	L 2-3 %	0"-18"	R C SBK	SS SP FR SEXP	F YBrs 27"+	48"			0.275
		18"-27"	R SCL WSBK	SS SP FR SEXP					
		27"-48"	R C SBK	SS SP FR SEXP					
AB 5	L 2-3 %	0"-6"	Br CL WSBK	SS SP FR SEXP	F YBrs 25"+	48"			0.275-0.25
		6"-21"	R C SBK	SS SP FR SEXP					
		21"-25"	R SCL WSBK	SS SP FR SEXP					
		25"-48"	R C SBK	SS SP FR SEXP					

DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM
Available Space (.1945)	2010 FT2	1350 ft2
System Type(s)	25% Reduction	PPBPS
Site LTAR	0.25	0.25

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.

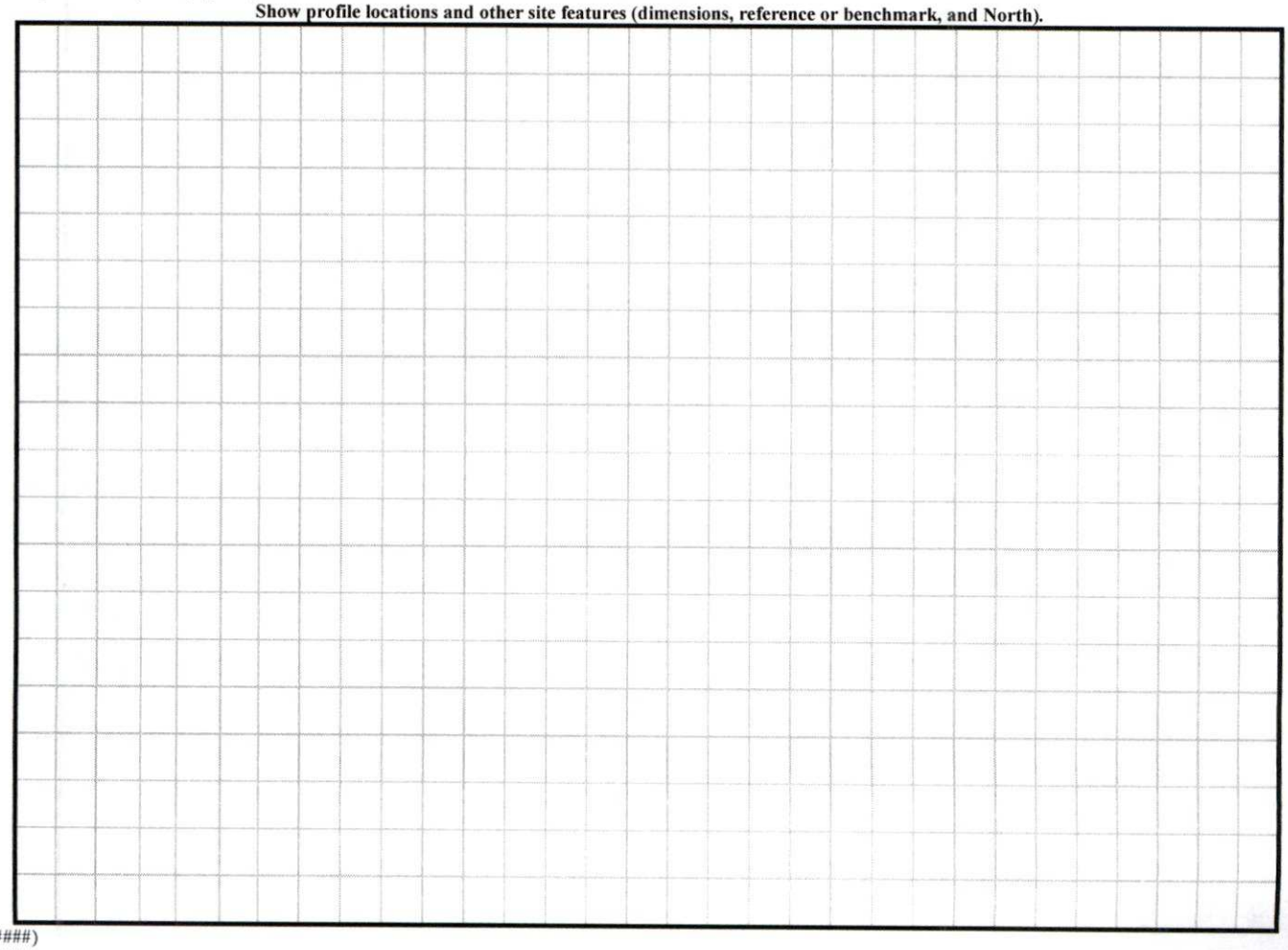
NOTES

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 (#####)

DIVISION OF ENVIRONMENTAL HEALTH
ON-SITE WASTEWATER SECTION

PROPERTY ID #: 15901 Cramur Drive; PID#00102370
COUNTY: Mecklenburg

SOIL/SITE EVALUATION
for ON-SITE WASTEWATER SYSTEM cont.

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 6	L 2-3 %	0"-5"	Br CL WSBK	SS SP FR SEXP	YBrs 5"-45"	48"	Few to common saprolite inclusions 45"-48"		0.25
		5"-45"	R C SBK	SS SP FR SEXP					
		45"-48"	R CL WSBK	SS SP FR SEXP					

COMMENTS: See consultant design

Landscape Position
R-Ridge
SS-Shoulder Slope
LS-Linear Slope
FS-Foot Slope
NS-Nose Slope
HS-Head Slope
CC-Concave Slope
CV-Convex Slope
T-Terrace
FP-Flood Plain
D-Drainage Way

Group	Texture	.1955 LTAR
I	S-Sand	1.2 - 0.8
	LS-Loamy Sand	
II	SL-Sandy Loam	0.8 - 0.6
	L-Loam	
III	Si-Silt	0.6 - 0.3
	SiCL-Silty Clay Loam	
	CL-Clay Loam	
	SCL-Sandy Clay Loam	
	SiL-Silt Loam	
IV	SC-Sandy Clay	0.4 - 0.1
	SiC-Silty Clay	
	C-Clay	

Structure
sg-Single Grain
mass-Massive
cr-Crumb
gr-Granular
sbk-Subangular Blocky
abk-Angular Blocky
pl-Platy
pr-Prismatic

Structure Prefixes

w-weak
m-moderate
s-strong
f-fine
m-medium
c-coarse

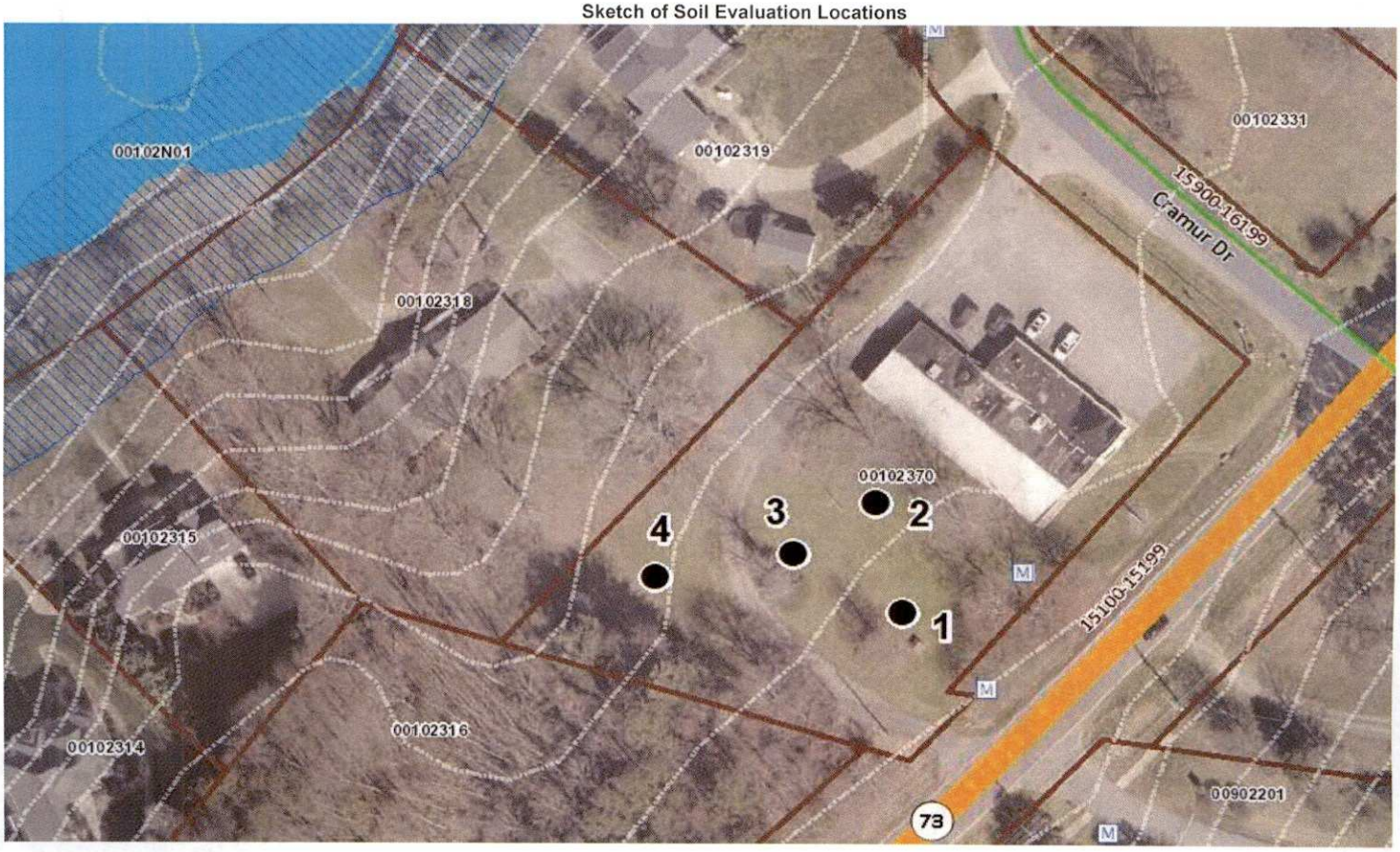
Consistence
Moist
VFR-Very Friable
FR-Friable
FI-Firm
VFI-Very Firm
EFI-Extremely Firm

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



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

Property ID: 001-023-70
Lot #: NA
File #: 11515B
AppID: 13436

SOIL/SITE EVALUATION
for ON-SITE WASTEWATER SYSTEM

Owner: Shirley Kiestier
Address: 15905 Cramur Dr, Huntersville, NC 28078
Proposed Facility: Gym
Design Flow (.1949): 675 GPD
Location of Site: 15901 Cramur Dr, Huntersville, NC 28078
Water Supply: [ ] Public [ ] Individual [ ] Well [ ] Spring [X] Municipal
Evaluation Method: [X] Auger Boring [ ] Pit [ ] Cut
Type of Wastewater: [X] Sewage [ ] Industrial Process [ ] Mixed

Applicant: Jeremy Martin - Ultimate Athlete
Date Evaluated: 10/18/2022
Property Size: 1.29 ac
Property Recorded: 6/3/2020

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
Boring #1	LS 2%	0 - 12	sbk CL	SS SP FR SEXP	>45"	45	NA	NA		PS IV 0.25	33"
		12 - 45	sbk/abk C	S P FI SEXP							
Boring #2	LS 2%	0 - 6	sbk CL	SS SP FR SEXP	>46"	46	NA	NA		PS IV 0.275	34"
		6 - 46	sbk C	S P FI SEXP							
Boring #3	LS 2%	0 - 6	sbk CL	SS SP FR SEXP	>48"	48	NA	NA		PS IV 0.25	36"
		6 - 48	abk C	S P FI SEXP							
Boring #4	LS 9%	0 - 6	sbk CL	SS SP FR SEXP	>42"	42	NA	NA		PS IV 0.25	30"
		6 - 42	abk/sbk C	S P FI SEXP							

Description	Initial System	Repair System
Available Space (.1945)	PS	PS
System Type(s)	IIIb	IIIb
Site LTAR (gpd/sq ft)	0.25	0.25

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

MA&A
SOIL & ENVIRONMENTAL CONSULTANTS

MICHAEL ATHANAS & ASSOCIATES
LICENSED SOIL SCIENTIST
556 Walden Trail
Weddington, NC 28173
(704) 576-3887

Reference: Data Sheet for 15901 Cramur Drive;
PIN# 00102370;
Mecklenburg County, NC

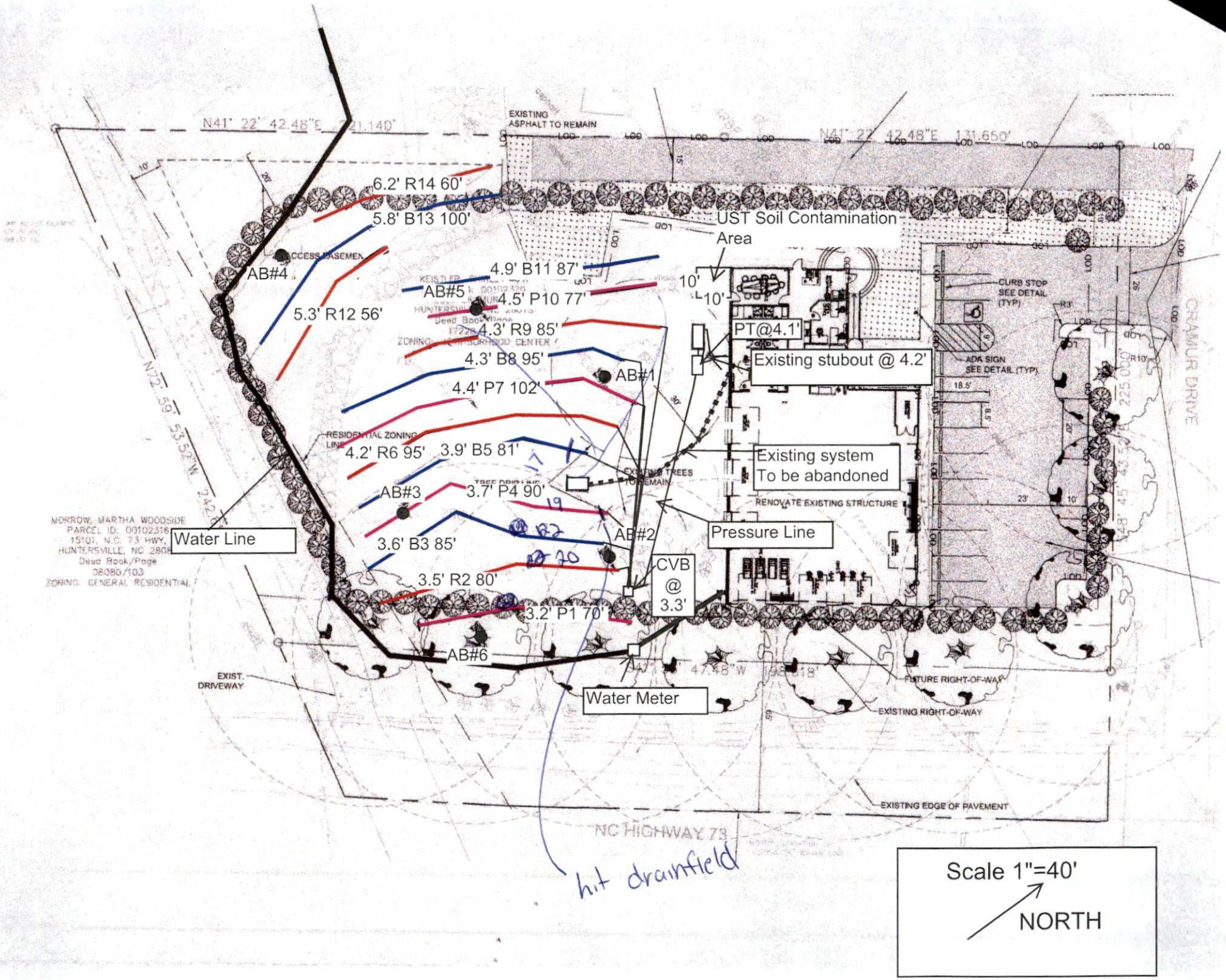
Building Footprint: Existing
Building Setback: Unknown
Water Source: Public Water
Gallons Per Day: 670 GPD; 15 clients per hour for 11 hours at 3 gallons per client. "Per Trish
7 employees at 25 gallons per employee
Proposed LTAR: 0.25 gpd/ft2
Suggested Initial System Type: 25% Reduction
Repair System LTAR: 0.25 gpd/ft2
Repair System Type: PPBPS
Distribution: Pressure Manifold
Flow per Tap: 1@ ¾" SCH80 (R2+B3); 3@ ½" SCH40 (P4+P7), (B5+R6), (2 existing lines)
Tap Size and Material: 3 @ ½" SCH 40; 1 @ ¾" SCH80
System Flow: 31.43 gpm
Dosing Volume: 247.19 gallons per dose
Pump Run Time: 7.86 minutes
Elevation Head: 5.6'
Friction Head: 3.14'
Pressure Head: 2'
Total Dynamic Head: 10.74'
Supply Line Length: 80'
Septic/Pump tank size: 1500 gallon septic tank and 1500 gallon septic tank
Trench Bottom: 24"

Line	Design Length	Actual Length	Elevation
Pink 1		70'	3.2'
Red 2	**82'**	**82'**	**3.5'**
Blue 3	**90'**	**90'**	**3.6'**
Pink 4	**78'**	**90'**	**3.7'**
Blue 5	**70'**	**70'**	**3.9'**
Red 6	**60'**	**60'**	**4.2'**
Pink 7	**60'**	**60'**	**4.4'**
Existing 1	**65'**	**65'**	**4.5**
Existing 2	**70'**	**70'**	**4.5'**
Blue 8		95'	4.3'
Red 9		85'	4.3'
Pink 10		77'	4.5'
Blue 11		87'	4.9'
Red 12		56'	5.3'
Blue 13		100'	5.8'
Red 14		60'	6.2'

Initial System: 430' 25% Reduction; Existing 135' **Repair System:** 560' PPBPS
Bench Mark/Stub out: 4.2' **Pump Tank:** 4.1' **Pressure Manifold:** 3.3'

Comments: The purpose of the evaluation is to permit this site for a fitness center. There will be 15 clients per hour and 7 employees.

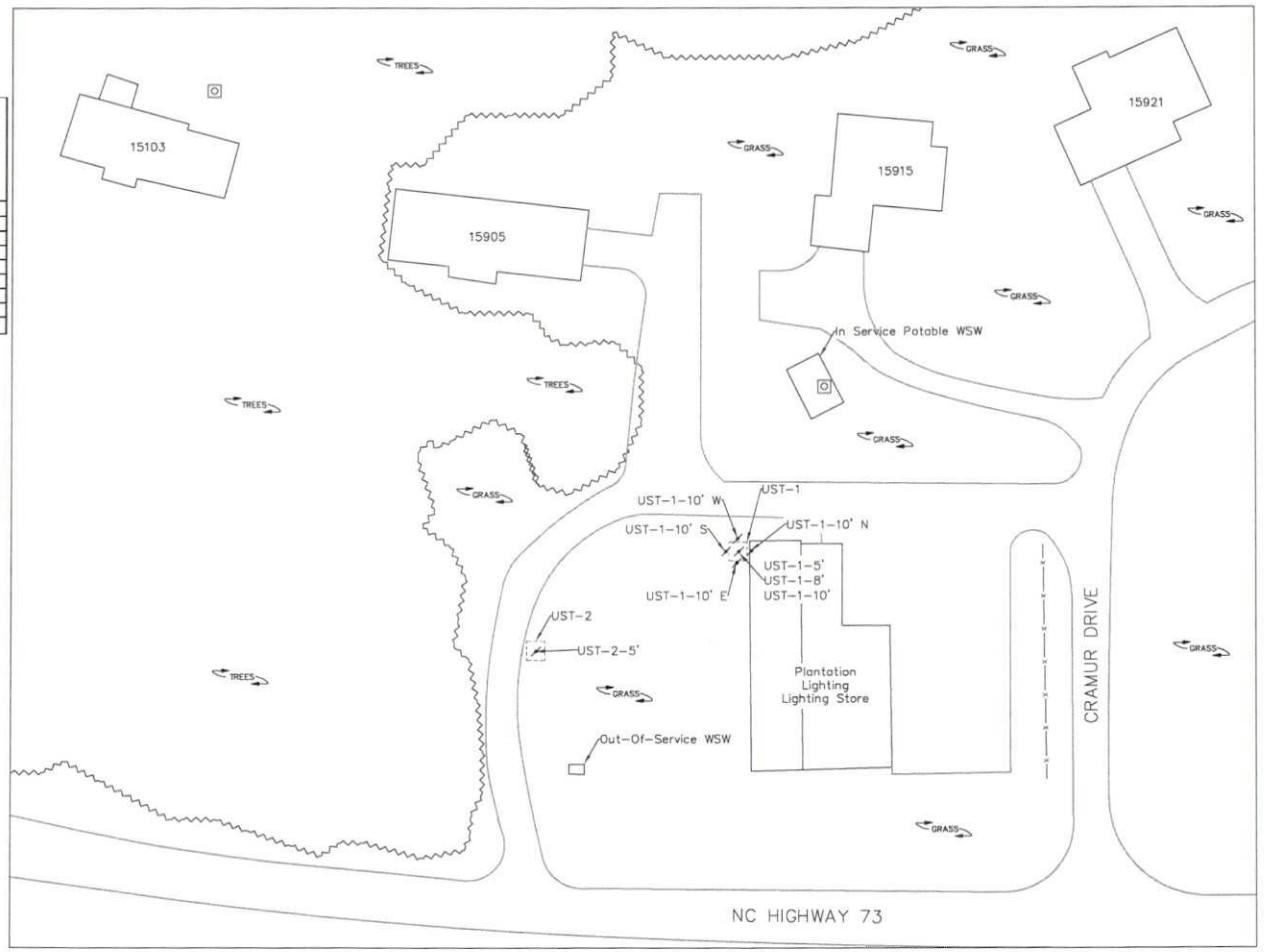
- **Additional existing system was found during the installation. The decision was made to use the existing system and subtract 240 gpd on the design flow. The additional existing lines have been shown on the site plan. New tap information has been added above.**
- The proposed septic area should be fenced off prior to any construction activities taking place. No vehicular traffic on the proposed septic area. Failure to do so will result in the permit being voided.
- Keep the system 10' from the existing water line.
- The existing tank should be crushed and filled in.
- The well was properly abandoned.
- No additional utilities should be installed in the septic area.
- **This system is designed for 670 gallons per day. Water use near 80% of that design flow is maximizing the system and can result in failure.**


EXISTING ASPHALT TO REMAIN
N41° 22' 42.48"E 131.650'
6.2' R14 60'
5.8' B13 100'
UST Soil Contamination Area
AB#4
4.9' B11 87'
AB#5
4.5' P10 77'
5.3' R12 56'
4.3' R9 85'
PT@4.1'
Existing stubout @ 4.2'
4.3' B8 95'
AB#1
4.4' P7 102'
RESIDENTIAL ZONING LINE
4.2' R6 95'
3.9' B5 81'
Existing system To be abandoned
AB#3
3.7' P4 90'
RENOVATE EXISTING STRUCTURE
Water Line
AB#2
Pressure Line
3.6' B3 85'
CVB @ 3.3'
3.5' R2 80'
3.2' P1 70'
AB#6
Water Meter
EXIST. DRIVEWAY
FUTURE RIGHT-OF-WAY
EXISTING RIGHT-OF-WAY
EXISTING EDGE OF PAVEMENT
NC HIGHWAY 73
CRAMUR DRIVE
CURB STOP SEE DETAIL (TYP)
ADA SIGN SEE DETAIL (TYP)
MORROW, MARTHA WOODSIDE
PARCEL ID: 00102316
15101 N.C. 73 HWY.
HUNTERSVILLE, NC 28078
Deed Book/Page
08080/103
ZONING: GENERAL RESIDENTIAL
hit drainfield
Scale 1"=40'
NORTH

LEGEND

—x—x—x— FENCE
TREE LINE
UNDERGROUND STORAGE TANK
WATER SUPPLY WELL
SOIL SAMPLE LOCATION

Contaminant of Concern →				Gasoline-Range TPH	Diesel-Range TPH
Sample ID	Date Collected (mm/dd/yy)	Sample Location	Sample Depth (ft-BGS)		
RAL (mg/kg)				50	100
UST-1-5'	11/3/21	UST-1 Basin	5	88.2	19.4
UST-1-8'			8	78.4	14.2
UST-1-10'			10	1,032	291.2
UST-1-10' N			10	68.6	23.7
UST-1-10' S			10	977	145.9
UST-1-10' E			10	39.2	11.1
UST-1-10' W			10	1,588	554
UST-2-5'	11/3/21	UST-2 Basin	5	<0.7	2.1



Geological Resources, Inc.

0 30 60 120
(IN FEET)
1 inch =60 ft

SOIL QUALITY MAP (11/03/2021)

15901 Cramur Drive Property
Incident No. N/A
GRI Project No. 5872

15901 Cramur Drive
Huntersville, North Carolina
Mecklenburg County

Date: 12/02/2021 | Drawn by: DTH | Figure: 4

Mecklenburg County Groundwater & Wastewater Services
3205 Freedom Dr., Suite 8000 Charlotte, NC 28208
Phone: (980) 314-1680 Fax: (704) 336-6894

NC DHHS
Division of Environmental Health
On-Site Wastewater Section

IMPROVEMENT PERMIT for a COMMERCIAL

ON-SITE WASTEWATER TREATMENT & DISPOSAL SYSTEM

Permit #: **30013436** GWS File #: **11515B** Tax Parcel #: **001-023-70**

- 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. 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):** 11/21/2027

Intallation Type: Commercail/Industrial - New System Business Type: Commercial # Shifts:

Facility Size (ft^2): 5000 # Employees/Shift: SEE Design Note See design notes

Wastewater Type: ~~Industrial Process~~ Water Supply: Municipal

II. Initial System Type: Conventional **System Classification:** IIIb

Initial System Specifications:

Design Flow (gpd): 670 LTAR (gpd/ft^2): 0.25 Septic Tank Size (gal): 1500 Pump Tank Size (gal): 1500

Trench Width (ft): 3 Trench Spacing (ft): 9 Absorption Area (ft^2): 2010 Total Trench Length (ft): 670

Maximum Trench Depth (in): 24 Depth of Media (in): 12 Distribution Device: Pressure Manifold

III. Repair System Type: PPBPS (pressurized) **System Classification:** IIIb

Repair System Specifications:

Design Flow (gpd): 670 LTAR (gpd/ft^2): 0.25 Septic Tank Size (gal): 1500 Pump Tank Size (gal): 1500

Trench Width (ft): 2 Trench Spacing (ft): 8 Absorption Area (ft^2): 894 Total Trench Length (ft): 447

Maximum Trench Depth (in): 24 Depth of Media (in): 22 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: Heather Ray Owner/Legal Agent: Jeremy Martin

Signature: Heather Ray Signature: Jeremy Martin

Print Name

Date Issued: 11/21/2022

Mecklenburg County Groundwater & Wastewater Services
3205 Freedom Dr., Suite 8000 Charlotte, NC 28208
Phone: (980) 314-1680 Fax: (704) 336-6894

NC DHHS
Division of Environmental Health
On-Site Wastewater Section

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

Permit #: **30013436** GWS File #: **11515B**

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.
- The septic system shall be installed in accordance with the plans submitted by the wastewater system design consultant.
- 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.
- SEE CONSULANT DESIGN FOR DETAILS

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: Heather Ray

Signature:

Date Issued: 11/21/2022

Owner/Legal Agent: Jeremy Martin
Print Name

Signature: Jeremy Martin

Mecklenburg County Groundwater & Wastewater Services
3205 Freedom Dr., Suite 8000 Charlotte, NC 28208
Phone: (980) 314-1680 Fax: (704) 336-6894

NC DHHS
Division of Environmental Health
On-Site Wastewater Section

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

Permit #: **30013436** GWS File #: **11515B** Tax Parcel #: **001-023-70**

- 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. 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):** 11/21/2027

Intallation Type: Commercail/Industrial - New System Business Type: Commercial # Shifts:

Facility Size (ft^2): 5000 # Employees/Shift: SEE Design Note See design notes

Wastewater Type: ~~Industrial Process~~ Water Supply: Municipal

II. Initial System Type: Conventional **System Classification:** IIIb

Initial System Specifications:

Design Flow (gpd):	670	LTAR (gpd/ft^2):	0.25	Septic Tank Size (gal):	1500	Pump Tank Size (gal):	1500
Trench Width (ft):	3	Trench Spacing (ft):	9	Absorption Area (ft^2):	2010	Total Trench Length (ft):	670
Maximum Trench Depth (in):	24	Depth of Media (in):	12	Distribution Device:	Pressure Manifold		

III. Repair System Type: PPBPS (pressurized) **System Classification:** IIIb

Repair System Specifications:

Design Flow (gpd):	670	LTAR (gpd/ft^2):	0.25	Septic Tank Size (gal):	1500	Pump Tank Size (gal):	1500
Trench Width (ft):	2	Trench Spacing (ft):	8	Absorption Area (ft^2):	894	Total Trench Length (ft):	447
Maximum Trench Depth (in):	24	Depth of Media (in):	22	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: Heather Ray Owner/Legal Agent: _____
Print Name

Signature: _____ Signature: _____

Date Issued: 11/21/2022

Mecklenburg County Groundwater & Wastewater Services
3205 Freedom Dr., Suite 8000 Charlotte, NC 28208
Phone: (980) 314-1680 Fax: (704) 336-6894

NC DHHS
Division of Environmental Health
On-Site Wastewater Section

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

Permit #: **30013436** GWS File #: **11515B**

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.
- The septic system shall be installed in accordance with the plans submitted by the wastewater system design consultant.
- 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.
- SEE CONSULANT DESIGN FOR DETAILS

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: Heather Ray

Signature: _____

Date Issued: 11/21/2022

Owner/Legal Agent: _____
Print Name

Signature: _____

Mecklenburg County Groundwater & Wastewater Services
3205 Freedom Dr. Suite 8000 Charlotte, NC 28208
Phone: (980) 314-1680 Fax: (704) 336-6894

Septic System Pre-Construction Meeting Checklist

File # 11515b App# 13436 Tax Parcel# 00102370

Property Owner: Shirley Keistler

Job Location Address: 15905 Cramur

City: Huntersville State: NC Zip Code: NC

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.**

Heather Ray
Authorized Agent

1/10/23
Date

Others Present

Mecklenburg County Groundwater & Wastewater Services
3205 Freedom Dr. Suite 8000, Charlotte, NC 28208
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 #: 11515B Permit #: 13436 Tax Parcel #: 00102370

Property Owner: Shirley Keistler

Job Location Address: 15901 Cramur Dr

City: Huntersville State: NC Zip Code: 28278

Operation Permit Issuance Date: _____ Contractor Name: Steve Autry

Permitted Design Flow: 670 GPD Liquid Capacity of Dosing Tank: 1500 gallons

Liquid Capacity of Septic Tank: 1500 gallons Tank Manufacture Dellinger Effluent Pump Model: _____

Drainfield Installation ☐ N/A

Trench Depth: 24 inches

Trench Width: 3 feet

Line Spacing: 9 feet (O.C.)

Total line length: 565 feet 430' new, existing 134

# of Lines: 8 @ Vary feet

Depth of Media: 12 inches (Type) CHM 36

Depth of Cover: 10" 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: 10 feet

Distance from Property Line: 10 feet

Distance from Water Supply Source: 10 feet

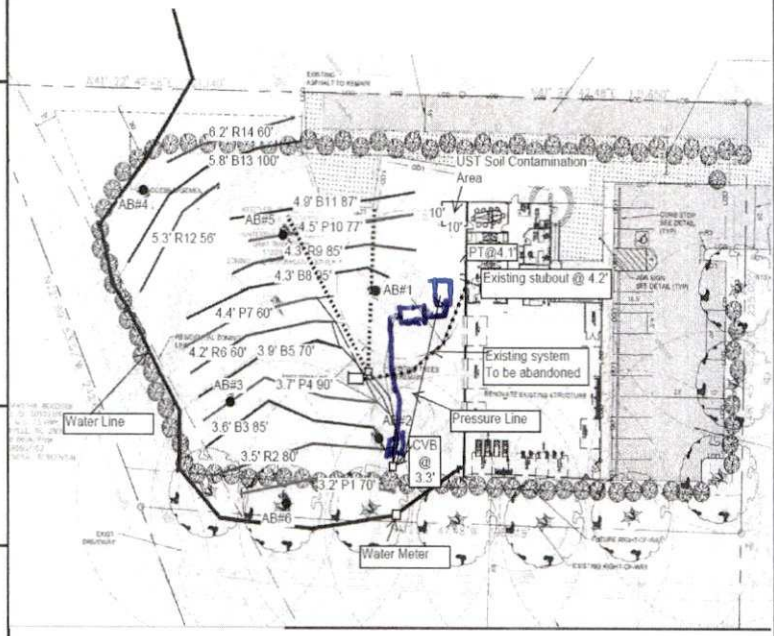
Inspection Dates

Tank(s) Inspected: 1/12/23

Excavation Inspected: 1/12/23

Pump & Controls Inspected: _____

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: 111bg1 Chm36 1p1 Nd1 Va

DENR Authorized Agent: _____ Signature: _____

Mecklenburg County Groundwater & Wastewater Services
3205 Freedom Dr. Suite 8000, Charlotte, NC 28208
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 #: 11515B Permit #: 13436 Tax Parcel #: 00102370

Property Owner: Shirley Keistler

Job Location Address: 15901 Cramur Dr

City: Huntersville State: NC Zip Code: 28078

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: Heather Ray Date: _____

Signature: Heather Ray