BLDR-2022-2030

ICHD - ENVIRONMENTAL HEALTH DIVISION

Statesville Office (704) 878-5305 Mooresville Office (704) 660-3625

PERMIT # OSWP-2022-3402

SEPTIC: IMPROVEMENT PERMIT / AUTHORIZATION TO CONSTRUCT / OPERATION PERMIT / EXISTING SYSTEM

PIN # 4746-32-2601

APPLICANT / OWNER: Tiffany Varela | APPLICANT ADDRESS: 2160 Edenderry Drive, Statesville, NC 28625

SITE ADDRESS: 134 ZURICH LN, STATESVILLE, NC 28625 | PHONE: | ALT. PHONE:

SITE DIRECTIONS: | SAP CONTROLLED: YES ☐ NO ☒

SUBDIVISION: Faircview Farm | SECTION: – | LOT #: 15-16 | LOT AREA: 1.662 | DESIGN FLOW: 480 | L.T.A.R.: .50

Septic Tank: (gal) 1000	STB: 760	Date: 4/3/23	☑ New System ☐ Repair ☐ Expansion	System Type:	☑ Residence	No. Bedrooms: 4	Water Supply: Other Public Water
Pump Tank: (gal) –	PT: –	Date: –	System Description: 25% Reduction		☐ Business	No. Persons: 5	
Pump Make: –	Model: –	Serial #: –	Repair System Description: PPBPS - 50% Reduction		☐ Other	No. Employees:	
# Nitrification Fields:	# Lines: 4	Linear Ft.: 400	Maintenance Agreement Required: ☐ YES ☑ NO		☐ Slab	☑ Crawl Space	
Trench Width: 36in	Trench Bottom Depth ([redacted]): 26 in High		Gravel Depth: –	☑ GRAVITY ☐ PRESSURE	☐ Basement w/ Plumbing	☐ Basement w/o Plumbing	

Comments / Conditions: *Pre-construction meeting Required prior to operation permit*

INITIAL SITE SKETCH

This permit is issued pursuant to G.S. 130A-335(a2), (a3) & (a4) using the signed and sealed LSS/LG Evaluation attached here, from:

Thompson Environmental Consulting Inc

LSS# 1287

AS BUILT SKETCH

Installed as drawn

Permit can be suspended or revoked if any false information is supplied toward securing the permit / any unauthorized changes are made to the site / any unauthorized changes are made in the installation of the system. CONTACT A LOCATOR SERVICE PRIOR TO ANY EXCAVATION

☐ IMPROVEMENT PERMIT with plat valid without expiration. ☑ IMPROVEMENT PERMIT with site plan valid for 60 mos. ☑ AUTHORIZATION TO CONSTRUCT valid for period equal to IMPROVEMENT PERMIT--not to exceed 60 mo.

Owner / Applicant Signature: | Date:

IMPROVEMENT PERMIT by: Benjamin A Baker | Date: 9/27/22

AUTHORIZATION TO CONSTRUCT by: Benjamin A Baker | Date: 9/27/22

Installed By: Stevens Septic

OPERATION PERMIT by: Matt Wilhi | Date: 5/24/23

Existing System Inspected By: | Date:

FOR SEPTIC FINAL INSPECTION CALL: 704-664-3703 BETWEEN 8am-9am the day the inspection is needed.

County: Iredell

This Section for Local Health Department Use Only

Initial submittal received: 9/27/2022 (Date) by BB. (Initials)

Permit Number: OSWP-2022-3402

G.S. 130A-335(a4) states the following: *'If a local health department fails to act on an application for an improvement permit submitted pursuant to subsection (a3) of the section within 10 business days of receipt of a complete application, the local health department shall issue the improvement permit.'*

In accordance with G.S. 130A-335(a3) the improvement permit application is:

☐ Incomplete (If box is checked, information in this section is required.)

The following items are missing:

_____

_____

Copies of this were sent to the LSS and the Owner on _____ (Date)

State Authorized Agent: _____ Date: _____

☐ Denied (See attached report.)

Copies of this were sent to the LSS and the Owner on _____ (Date)

State Authorized Agent: _____ Date: _____

☑ Complete

State Authorized Agent: Benjamin A. Beeth Date of Issuance: 9/27/2022

This Improvement Permit is issued pursuant to G.S. 130A-335 (a2), (a3), and (a4) using the signed and sealed LSS/LG evaluation(s) attached here. The issuance of this permit by the Health Department in no way guarantees the issuance of other permits. The permit holder is responsible for checking with appropriate governing bodies in meeting their requirements. This site is subject to revocation if the site plan, plat, or the intended use changes, or if information submitted in the application was falsified, inaccurate or misleading. The Improvement Permit shall not be affected by a change in ownership of the site. This permit is subject to compliance with the provisions of the Laws and Rules for Sewage Treatment and Disposal and to conditions of this permit. The location and identification of all property lines, easements, water lines, and other appropriate utilities shall be the responsibility of the owner.

The Department, the Department's authorized agents, and the local health departments shall be discharged and released from any liabilities, duties, and responsibilities imposed by statute or in common law from any claim arising out of or attributed to evaluations, submittals, or actions from a licensed soil scientist or licensed geologist pursuant to GS 130A-335(a2).

Improvement Permit Expiration Date: 9/27/2027

See attached site sketch

County: Iredell

This Section for Local Health Department Use Only

Initial submittal received: 9-27-2022 (Date) by BB. (Initials)

Permit Number: OSWP-2022-340.

G.S. 130A-335(a6) states the following: *'If a local health department fails to act on an application for a construction authorization submitted pursuant to subsection (a5) of the section within 10 business days of receipt of a complete application, the local health department shall issue the construction authorization.'*

In accordance with G.S. 130A-335(a5) the construction authorization application is:

☐ Incomplete (If box is checked, information in this section is required.)

The following items are missing: _____

_____

Copies of this were sent to the AOWE/PE and the Owner on _____ (Date)

State Authorized Agent: _____ Date: _____

☐ Denied (See attached report.)

Copies of this were sent to the AOWE/PE and the Owner on _____ (Date)

State Authorized Agent: _____ Date: _____

☑ Complete

State Authorized Agent: Benjamin A Botts Date of Issuance: 9-27-2022

This Construction Authorization is issued pursuant to G.S. 130A-335(a2), (a5), and (a6) using the signed and sealed plans or evaluations attached here. This Construction Authorization is subject to revocation if the site plan, plat, or the intended use changes, or if information submitted in the application was falsified, inaccurate or misleading. The Construction Authorization shall not be affected by a change in ownership of the site. This Construction Authorization is subject to compliance with the provisions of the Laws and Rules for Sewage Treatment and Disposal and to the conditions of this permit. The location and identification of all property lines, easements, water lines, and other appropriate utilities shall be the responsibility of the owner. Final landscaping shall be constructed to divert water and establish vegetative cover.

The Department, the Department's authorized agents, and the local health departments shall be discharged and released from any liabilities, duties, and responsibilities imposed by statute or in common law from any claim arising out of or attributed to plans, evaluations, preconstruction conference findings, submittals, or actions from a person licensed pursuant to Chapter 89C of the General Statutes as a licensed engineer or a person certified pursuant to Article 5 of Chapter 90A of the General Statutes as an Authorized On-Site Wastewater Evaluator in GS 130A-335(a2), (a5), and (a7). The Department, the Department's authorized agents, and the local health departments shall be responsible and bear liability for their actions and evaluations and other obligations under State law or rule, including the issuance of the operations permit pursuant to GS 130A-337.

Construction Authorization Expiration Date: 9-27-2027.

See attached site sketch

County: Iredell

CONSTRUCTION AUTHORIZATION FOR G.S. 130A-335(a2)/SL2022-11

PIN/Lot Identifier: 4746-32-1631

Issued To: Victor and Tiffany Varela

Property Location: 134 Zurich Lane, Statesville, NC 28625

AOWE/PE Plans/Evaluations Provided: Yes ☑ No ☐ If yes, name and license number of AOWE/PE: Larry Thompson, AOWE No. 10016E

Facility Type: Single-family residence

☑ New ☐ Expansion ☐ Repair ☐ System Relocation

Basement? ☐ Yes ☑ No Basement Fixtures? ☐ Yes ☐ No

Type of Wastewater System** Accepted (Initial) PPBPS (Repair)

Design Daily Flow: 480 GPD Wastewater Strength: ☑ domestic ☐ high strength ☐ industrial process

Session Law 2014-120 Section 53, Engineering Design Utilizing Low-flow Fixtures and Low-flow Technologies? ☐ Yes ☑ No

Installation Requirements/Conditions

Septic Tank Size: 1000 gallons Total Trench/Bed Length: 400 feet Trench/Bed Spacing: 9 feet on center

Drainfield square footage: 1200 Trench/Bed Width: 36 inches LTAR: 0.3 gpd/ft²

Soil Cover: 6 inches Slope Adjusted Maximum Trench/Bed Depth: 25 inches

Aggregate Depth: N/A inches above pipe N/A inches below pipe 12 inches total

Pump Tank Size (if applicable): N/A gallons Requires more than 1 pump? ☐ Yes ☐ No

Pump Requirements: _____ ft. TDH vs. _____ GPM Grease Trap Size (if applicable): _____ gallons

Distribution Method: ☐ Serial ☑ D-Box or Parallel ☐ Pressure Manifold(s) ☐ LPP ☐ Other: _____

Artificial Drainage Required: Yes ☐ No ☑ If yes, please specify details: _____

Legal Agreements *(If the answer is "Yes" to any type of legal agreements, please attach a copy of the agreement.)*

Multi-party Agreement Required [.1937(h)]: ☐ Yes ☑ No

Easement, Right-of-Way, or Encroachment Agreement Required [.1938(j)]: ☐ Yes ☑ No

Declaration of Restrictive Covenants: ☐ Yes ☑ No

****If applicable:**

I understand the system type specified is different from the type specified on the application. I accept the specifications of this permit.

Owner/Legal Representative Print Name: _____

Owner/Legal Representative Signature: _____ Date: _____

Pre-Construction Conference Required: Yes ☐ No ☑

Conditions: Installer must be pre-approved by Thompson Environmental Consulting, Inc, Permit is non-transferable.

The construction and installation requirements of Rules .1950, .1952, .1954, .1955, .1956, .1957, .1958, and .1959 are incorporated by reference into this permit and **shall be met. Systems shall be installed in accordance with** the attached system layout.

AOWE/PE Print Name: Larry Thompson

AOWE/PE Signature: _____ Date: 9/27/22

This AOWE/PE submittal is pursuant to and meets the requirements of G.S. 130A-335(a2) and (a5).

***See attached site** sketch**

County: Iredell

IMPROVEMENT PERMIT FOR G.S. 130A-335(a2)/SL2022-11

PIN/Lot Identifier: 4746-32-1631

Issued To: Victor and Tiffany Varela

Property Location: 134 Zurich Lane, Statesville, NC 28625

Subdivision: Fairview Farms Lot #: 16 Block: _____ Section: _____

LSS Report Provided: Yes ☑ No ☐

If yes, name and license number of LSS: Larry Thompson, NCLSS No. 1287

New ☑ Repair ☐ Expansion ☐ System Relocation ☐

Proposed Structure: Single-family residence

Proposed Wastewater System Type: Accepted (Initial) PPBPS (Repair)

Fill System: ☐ Yes ☑ No If yes, specify: ☐ New ☐ Existing (when adding more than 6 inches of fill to system area please provide a fill plan)

Proposed Design Daily Flow: 480 GPD Proposed LTAR (Initial): 0.3 Proposed LTAR (Repair): 0.3

Design Wastewater Strength: ☑ domestic ☐ high strength ☐ industrial process

Number of bedrooms: 4 Number of Occupants: 8 Other: _____

Pump Required: ☐ Yes ☑ No ☐ May be required based upon final location and elevations of facilities

Artificial Drainage Required: ☐ Yes ☑ No If yes, please specify details: _____

Type of Water Supply: ☐ Private well ☐ Public well ☑ Municipal Supply ☐ Spring ☐ Other: _____

Drainfield location meets requirements of Rule .1945: Yes ☑ No ☐

Drainfield location meets requirements of Rule .1950: Yes ☑ No ☐

Permit valid for: ☑ Five years [site plan submitted pursuant to GS 130A-334(13a)] ☐ No expiration [plat submitted pursuant to GS 130A-334(7a)]

Permit conditions:

Licensed Soil Scientist Print Name: Larry Thompson, LSS

Licensed Soil Scientist Signature: _____ Date: 9/27/22

The LSS evaluation is being submitted pursuant to and meets the requirements of G.S. 130A-335(a2).

See attached site sketch

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

AGENT AUTHORIZATION FORM

PROPERTY LEGAL DESCRIPTION:

LOT NO. _____ PHASE _____ PARCEL ID: 4746-32-1631

STREET ADDRESS: 134 Zurich Lane,
Statesville, NC 28625

Please print:

Property Owner: Victor and Tiffany Varela

Property Owner: _____

The undersigned, registered property owners of the above noted property, do hereby authorize

Larry Thompson, LSS (Contractor / Agent), of Thompson Environmental Consulting, Inc. (Name of consulting firm)

to act on my behalf and take all actions necessary for the processing, issuance and acceptance of this permit or certification and any and all standard and special conditions attached.

Property Owner's Address (if different than property above):
2160 Edenderry Dr., Statesville, NC 28625

Telephone: 984-249-5006

We hereby certify the above information submitted in this application is true and accurate to the best of our knowledge.

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

The plans or evaluations attached to this application are to be used to issue a Construction Authorization in accordance with G.S. 130A-335(a2), (a5) and (a6).

Owner Signature: Tiffany M. Varela
Tiffany M. Varela (Sep 27, 2022 10:41 EDT)

Date: Sep 27, 2022

Owner Signature: _____

Date: _____

Residential Subsurface Wastewater Treatment and Disposal System Proposal

for

Lot 16 – Fairview Farms
134 Zurich Lane
Statesville, NC 28625

Tax Parcel # 4746-32-1631
May 21, 2022

Prepared for:

Victor and Tiffany Varela
168 Outwater Ridge Drive
Garner, NC 27529
984-249-5006



Prepared by:

Larry Thompson, REHS, LSS
Thompson Environmental Consulting, Inc.
PO Box 541
Midland, NC 28107-0541
Phone: 704-301-4881
larry@thompsonenv.com



Details

The Varelas have contracted with Thompson Environmental Consulting, Inc. (TEC) to prepare a septic proposal for a new 4-bedroom single family residence served by a municipal water supply to be located on Lot 16 – Fairview Farms, 134 Zurich Lane, Statesville, North Carolina.

Based upon a soil investigation performed by TEC, it was determined that a sufficient amount of "Suitable" Group IV soils are available for the installation of a **Gravity Flow Accepted System** for a 4-bedroom single family residence at a 0.3 GPD/sq/ft long-term acceptance rate (LTAR). The proposed repair system would be a prefabricated permeable block panel system.

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

Location

From Statesville, take Sullivan Road/US-21 N. to Zurich Lane. Turn left onto Zurich Lane, travel 0.1 miles and the property is located on the right.

References

Laws and Rules for Sewage Treatment and Disposal Systems, 15A NCAC 18A, Section .1900, Department of Environment and Natural Resources, Division of Environmental Health, On-Site Wastewater Section, April 1, 2017.

Accepted Wastewater System No. AWWS-2005-02-R6; North Carolina Department of Environment and Natural Resources, Division of Environmental Health, On-Site Wastewater Section, August 21, 2015.

Primary Investigator's Credentials

NC Registered Sanitarian No. 1208
NC Licensed Soil Scientist No. 1287
SC Certified Professional Soil Classifier No. 111
NC Subsurface Septic System Operator No. 22199
NC Grade IV Wastewater System Installer No. 1762
NC Certified Wastewater System Inspector No. 17621

Plans and Specifications

A. Septic Tank

1. The septic tank shall be State approved (Section .1953 of 15A NCAC 18A), watertight, structurally sound, and 1,000 gallons in capacity.
2. The septic tank shall be fitted with an approved effluent filter.
3. It is the responsibility of the septic contractor to thoroughly inspect the septic tank prior to accepting delivery to assure that the tanks have had time to properly cure and are free of cracks or other structural deficiencies.

B. Pipes and Fittings

1. All discharge piping, connectors and supply lines should be made of SCH 40 PVC.
2. All joints must be properly "welded" utilizing the appropriate PVC cement for each application.

C. Distribution Method

1. The drainlines will be fed via a distribution box.
2. Distribution box shall be water tested at the time of the final inspection.

D. Drainfield Installation

1. The drainfield has been previously laid out on-site utilizing metal stemmed flags. The property owner/builder should mark this area and isolate it as much as possible from construction traffic.
2. Under no circumstances shall any construction take place within the drainfield area while the soil is in a wet condition.
3. The specified system is an accepted wastewater system, specifically the Infiltrator Quick 4 chamber system or any other system with a state-approved 25% reduction in required drainline length.
4. The drainfield consists of four (4) lateral trenches to be constructed 3-foot wide by 100 feet long. Total drainline length is 400 feet.
5. The maximum trench depth for this system shall be **26 inches (high side)**.
6. The laterals are to be installed on contour with the land, keeping the individual trench bottoms level from beginning to end.
7. The trenches should be left open for the final inspection by the local health department.

E. Final Landscaping

1. Final cover over the drainfield shall be at least 6 inches deep. Additional soil cover may be required to achieve the 6 inch requirement.
2. The drainfield shall be shaped to shed rainwater and be free from low spots.
3. The drainfield area should be planted with grass as soon as possible to prevent erosion. The soil should be properly tilled, limed (if necessary) and fertilized prior to planting. After applying grass seed, the area should be heavily mulched with straw or other suitable material.

F. Utility Conflicts

1. The builder and property owner must take special care in planning for water, power, gas, telephone, and cable lines. These utilities shall be kept clear of all parts of the septic system and its proposed repair area. Improper planning for underground utilities can negatively impact the installation and, in some cases, cause irreparable damage and permit revocation. If there are any questions regarding preferred routes, contact the local health department as soon as possible.
2. Lawn irrigation should not be placed over the drainfield area.

Maintenance

G. <u>In General</u>

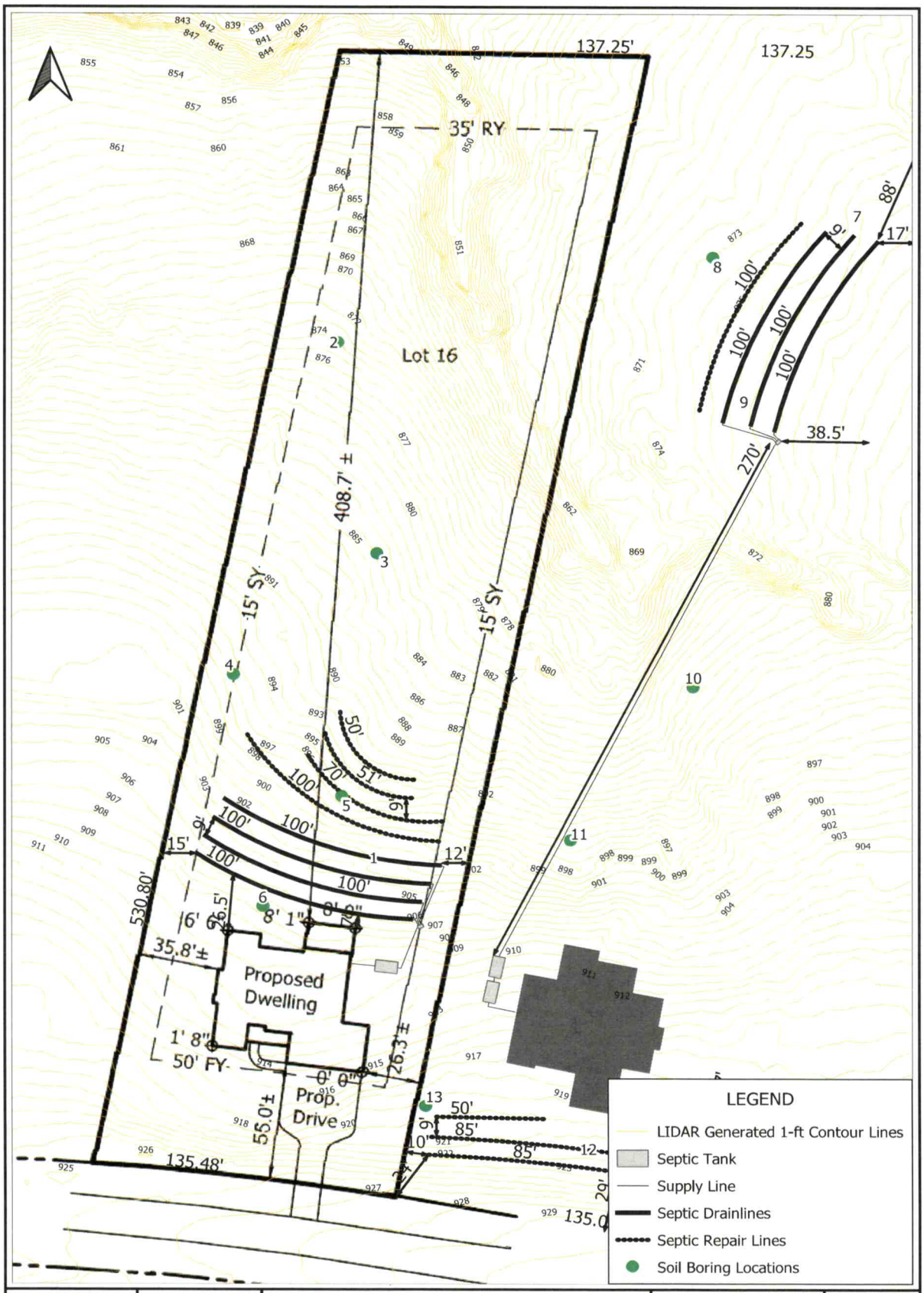
1. The homeowner must maintain the drainfield area through periodic mowing. The drainfield must not be allowed to become overgrown.
2. The septic tank should be pumped every 4 years or when the solids within the septic tank reach an elevation that is equivalent to 25 percent of the volume of the tank. In some situations, the tanks may need to be pumped more frequently. If using a garbage disposal, it is recommended that the homeowner has the septic and pump tanks cleaned out annually.
3. When it becomes necessary to clean the effluent filter, the filter should be removed, and the accumulated debris washed back into the septic tank – not onto the lawn.
4. Any damp areas, leakages, or malfunctions in the drainfield area should be addressed immediately.
5. Divert gutter downspouts and surface water runoff away from the septic and pump tanks.

Design Specifics

Daily Design Flow:	480 GPD – 4 bedroom house
Septic Tank Size:	1,000 Gallons (minimum)
Effluent Loading Rate:	0.3 GPD per sq. ft.
Drainfield Type:	Accepted 25% Reduction
Distribution Method:	Distribution Box
Number of Drainlines:	(4) 3' Wide x 400' Long
Total Trench Length:	400 Linear Feet
Maximum Trench Depth:	26 Inches (High Side)
Final Cover Requirement:	6 Inches

Repair Option

Effluent Loading Rate:	0.3 GPD per sq. ft.
Drainfield Type:	PPBPS
Required Linear Footage:	267 Linear Feet
Available Linear Footage:	271 Linear Feet
Maximum Trench Depth:	26 Inches (High Side)
Installation Depth:	6 Inches



Thompson Environmental Consulting	Prepared For: The Varelas	Proposed Septic Layout Lot 16 - Fairview Farms 134 Zurich Lane Statesville, NC 28625 Iredell County	Date: May 2022 Scale: 0 25 50 ft TEC Job #: 22-131	Figure 1

PRELIMINARY SOIL AND SITE EVALUATION

Lots 15 and 16 – Fairview Farms
Zurich Lane
Statesville, NC 28625

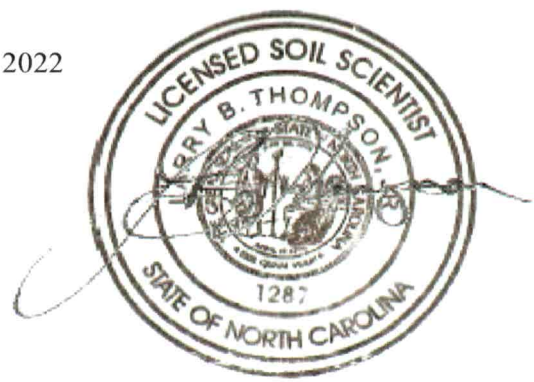
Prepared For:

Terrence Hansby and Tiffany Varela
45 Stationview Court
Clayton, NC 27520

Prepared By:

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

February 26, 2022



INTRODUCTION & SITE DESCRIPTION

This Soil and Site Evaluation was performed on Lots 15 and 16 of the Fairfax Farms subdivision, Zurich Lane, Statesville, North Carolina.

Thompson Environmental Consulting, Inc. (TEC) was retained to determine whether the soils were suitable for onsite subsurface wastewater treatment and disposal. 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 front portion of both lots have been recently graded, while undisturbed areas are vegetated with a mixed deciduous forest.

FINDINGS

A field survey was conducted on February 21, 2022, by Mac Haupt, LSS. Ten soil borings were advanced within the project study area and locations noted in the attached Figure 1.

All borings were rated as Provisionally Suitable for the installation of a subsurface wastewater treatment and disposal system utilizing Accepted System and Prefabricated Permeable Block Panel System drainfield products and are denoted in the attached Figure as green points. Surfaces, when present, typically exhibited friable loam textures with weak, medium, granular structure 1 inch in depth. Upper subsurface horizons exhibited firm clay to clay loam textures with moderate, medium, subangular blocky structure to a depth greater than 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 system utilizing Accepted System or Prefabricated Permeable Block Panel System drainfield products. It is estimated that 6,600 square feet of suitable soil area would need to be allocated and left completely available for the installation and required repair area for an Accepted System serving a 4-bedroom single family residence.

The required drainfield area can be reduced by 25% if using the Prefabricated Permeable Block Panel System.

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, Inc.
PO Box 541
Midland, NC 28107

PROPERTY ID #: 15 16
COUNTY: Iredell

SOIL/SITE EVALUATION
for ON-SITE WASTEWATER SYSTEM

OWNER: Hansby and Varela
ADDRESS:
PROPOSED FACILITY: Res. PROPOSED DESIGN FLOW (.1949):
LOCATION OF SITE: 128 Zurich Lane, Statesville
DATE EVALUATED: 2-21-22
PROPERTY SIZE: 2 lots 1 of
PROPERTY RECORDED:
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) STRUCTURE/ TEXTURE	SOIL MORPHOLOGY (.1941) CONSISTENCE/ MINERALOGY	OTHER PROFILE FACTORS .1942 SOIL WETNESS/ COLOR	.1943 SOIL DEPTH	.1956 SAPRO CLASS	.1944 RESTR HORIZ	PROFILE CLASS & LTAR
1	Stream	(Hourly - at least 3 intermittent)			standing on hand auger 6ft drop down stream				
2	LS 9%	0-1	gr / L	Fi/NS/NP/Nxp		40"		40"	PS 0.3
		1-4	sbk / CL	Fi/ss/sp/sbp					
		4-40	sbk / C	Fi/ss/sp/sbp					
3	LS 8%	0-1	gr / L	Fi/NS/NP/Nxp		42"+		42"+	PS 0.3
		1-24	sbk / CL	Fi/ss/sp/sbp					
		24-42	sbk / SCL	Fi/ss/sp/sbp	A lot of Mica				
4	LS 6.9% B/L	0-1	gr / L	Fi/NS/NP/Nxp		36"		PM @ 24"	PS 0.3
		1-12	sbk / L	Fi/ss/sp/sbp	A lot of mica				
		12-25	sbk / SL	Fi/ss/sp/sbp	Not much clay				
		25-36	sbk / SL	Fi/ss/sp/sbp					

DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM
Available Space (.1945)	PS	PS
System Type(s)	Accepted	Accepted
Site LTAR	0.3	0.3

OTHER FACTORS (.1946): Both lots sl
SITE CLASSIFICATION (.1948):
EVALUATED BY: Mac L
OTHER(S) PRESENT: L. Thompson, LSS

LICENSED SOIL SCIENTIST — MARK A. THOMPSON JR. — 1287 — STATE OF NORTH CAROLINA

COMMENTS: This evaluation is being submitted pursuant to and meets the requirements of G.S. 130A-335(a2).

SOIL/SITE EVALUATION

(Continuation Sheet-Complete all field in full)

Sheet 2 of 3

PROPERTY ID #: 15, 16

DATE OF EVALUATION: 2-21-22

Zurich Ln, Statesville COUNTY: Iredell

PROFILE #	.1940 LANDSCAPE POSITION/ SLOPE %	HORIZON DEPTH (IN.)	SOIL MORPHOLOGY (.1941) .1941 STRUCTURE/ TEXTURE	.1941 CONSISTENCE/ MINERALOGY	OTHER PROFILE FACTORS .1942 SOIL WETNESS/ COLOR	.1943 SOIL DEPTH	.1956 SAPRO CLASS	.1944 RESTR HORIZ	PROFILE CLASS & LTAR
5	LS 10%0	0-14	sbk | sc	FI/ss/sp/stkp		41"+		41"+	PS 0.3
		14-41	sbk | scl	FI/ss/sp/stkp					
6	LS 7%0	0-20	sbk | c	FI/ss/sp/stkp		40"+		40"+	PS 0.3
		20-40	sbk | scl	FI/ss/sp/stkp					
7	Large gulley								
8	LS 5%0	0-1	gr | v	FI/ns/np/nstk		40"+			PS 0.3
		1-25	sbk | c	FI/ss/sp/stkp					
		25-40	sbk | cl	FI/ss/sp/stkp					
9	Large gully								

COMMENTS:

SOIL/SITE EVALUATION

(Continuation Sheet-Complete all field in full)

PROPERTY ID #: 15, 16

DATE OF EVALUATION: 2-21-22

COUNTY: Iredell

Forich LN, Statesville

PROFILE #	.1940 LANDSCAPE POSITION/ SLOPE %	HORIZON DEPTH (IN.)	SOIL MORPHOLOGY (.1941) STRUCTURE/ TEXTURE	SOIL MORPHOLOGY (.1941) CONSISTENCE/ MINERALOGY	OTHER PROFILE FACTORS .1942 SOIL WETNESS/ COLOR	.1943 SOIL DEPTH	.1956 SAPRO CLASS	.1944 RESTR HORIZ	PROFILE CLASS & LTAR
10	LS 12-13%	0-1	sr | L	Fr/ss/sp/ssp					
		1-22	sbk | C	Fi/ss sp/ssp				22" Jr bdrk + rock	PS 0.15
11	LS 13%	0-1	sr | L	Fr/ns/np/nsp					
		1-16	sbk | C	Fi/ss sp/ssp					PS .0.3
		16-24	sbk | CL	Fi/ss sp/ssp	A lot of Mica	43"↓		43"↓	
		24-43	sbk | L	Fi/ss sp/ssp					
12	LS 8%	0-1	cr | L	Fr/ns/np/nsp					
		1-24	sbk | C	Fi/ss sp/ssp					PS 0.3
		24-40	sbk | CL	Fi/ss sp/ssp		40"		40" bdrk or PM	
13	LS 3%	0-24	sbk | C	Fr/ns/np/nsp					
		24-40	sbk | CL	Fi/ss sp/ssp		40"↓		40"+	PS 0.3
M	LS 5	0-1	cr | L	Fr/ns/np/nsp					
		1-24	sbk | C	Fi/ss sp/ssp					PS 0.3
		24-40	sbk | CL	Fi/ss sp/ssp		40"↓		40"+	

COMMENTS: