

Septic System Inspection Report

*3126 Brickmill Road
Lillington, N.C. 27546*



Prepared For: Vasilina Turintseva, Brooke Cohn (Realtor)
Prepared By: Carson Lynn, Lynn Environmental Consulting
Inspector License # 5366I
Inspection Date: August 12 & 13, 2021

On August 12 and 13, 2021, Lynn Environmental Consulting personnel inspected the septic system serving a residence located at 3126 Brickmill Road in Lillington, North Carolina. A copy of the original septic permit was not available from Harnett County Environmental Health Department. Thus, it is unknown how many bedrooms the septic system is permitted for. The residence is served by public water supply. The inspection checklist and pictures taken during inspection follow this report.

Septic Tank

The septic tank is located on the north side of the residence. The septic tank inlet compartment measured 12 feet from the foundation of the house. The septic tank inlet and outlet lids were located 14" below ground surface and were excavated for inspection. The septic tank lids were intact. Cracks in the top of the tank were observed at both lid openings. Water level in the tank was not relative to the tank outlet. The water level in the tank measured 38 inches from the bottom of the tank. The water level was approximately 10 inches below the invert of the outlet pipe. The tank was pumped out during the inspection. The septic tank was a single compartment tank with no baffle wall.

Due to the low water level in the tank, a 24-hour leak test was recommended to the Realtor, Brooke Cohn. On August 12, Brooke Cohn requested that the inspector proceed with the septic tank leak test. The septic tank was filled with water to the invert of the outlet pipe. The inspector revisited the property on August 13 to observe and measure the water level in the septic tank. The water level measured approximately 1.5-2" below the invert of the outlet pipe on August 13, 2021.

Dispersal Field

The dispersal field is gravity fed by a distribution box to two outlet pipes leading to the dispersal field. It appeared that the two outlet pipes from the distribution box led to a single 6-foot trench bed, approximately 90-feet in length. The 90-foot gravel trench bed was located when probing the dispersal field. The permitted length of the trench is unknown because the original permit was unavailable. There was possible evidence of past surfacing in a low, wet area observed in the dispersal field. Since the house was vacant, the inspector was unable to observe the conditions of the dispersal field during regular usage. The inspector ran water into the distribution box at a rate of 4-5 gallons per minute for approximately 20 minutes to mimic the daily flow of effluent from a household. There was no evidence of current surfacing effluent in the dispersal field at the time of inspection. The inspector excavated the distribution box for inspection. The distribution box was significantly deteriorated and the inspector's soil probe penetrated through the sidewall of the box. A significant amount of sludge was observed in the distribution box. While observing the effluent flow into the outlets of the distribution box, it appeared that one outlet partially backed up into the distribution box and was draining slow. There was evidence of traffic over the dispersal field.

Conclusions

Replacement of the septic tank is suggested due to the confirmed leak from the leak test. Regulations (15A NCAC 18A.1952) state that "a septic tank or dosing tank shall be watertight, structurally sound, and not subject to excessive corrosion or decay." Contact a certified onsite wastewater contractor to replace the septic tank. Replacement of the septic tank will require a permit from Wake County Environmental Health.

Replace deteriorated distribution box. Further evaluation of flow of effluent to the dispersal field is recommended after replacement of the distribution box.

Items in the Conclusions section should be addressed by a Licensed Wastewater Installer.

No representation, warranties or opinions are hereby given, written or expressed otherwise, as to the future performance of onsite wastewater system described herein. This onsite wastewater system inspection is a presentation of system facts in place on date of inspection.

We appreciate the opportunity to serve you.

Sincerely,

A handwritten signature in black ink, appearing to read 'Carson Lynn', with a long horizontal flourish extending to the right.

Carson Lynn

Lynn Environmental Consulting

On-site Wastewater Pre-inspection Contract

Client Name: Vasilina Turintseva Brooke Cohn (Realtor)

Client Address: 108 Evelyn Dr Knightdale NC 27545

Client Phone: 7073895709

Property Address: 3126 Brickmill Road, Lillington, N.C. 27546

Client is: Owner of Record Realtor Lender Buyer Seller
 Other (Describe) _____

Certified Inspector Name: Carson Lynn

Company Name: Lynn Environmental

Company Address: 7713 Pegram Street
Willow Spring, N.C. 27592

Inspector Certification Number: 5366I Inspector Phone: 919-753-3559

Certification Expires: December 31, 20 21

The on-site wastewater system inspection, hereinafter referred to as Inspection, shall be performed in accordance with 21 NCAC 39 .1004, 21 NCAC 39 .1005 and 21 NCAC 39 .1006. General Statutes, Rules and Minimum Inspection Requirements, can be viewed at www.ncowcicb.info

Services provided shall include: Inspection meeting minimum requirements
 Pumping of Tank
 Other (Describe) _____

Cost of Services to be provided: \$ 395.00

Payment is due prior to delivery of reports. Add 3% processing fee for credit/debit payments. Cash, checks and Venmo also accepted.

Inspector is **not required** to report on:

- 1) Life expectancy of any component or system
- 2) The causes of the need for a repair
- 3) The methods, materials and costs of corrections
- 4) The suitability of the property for any specialized use
- 5) The market value of the property or its marketability
- 6) The advisability or inadvisability of purchase of the property
- 7) Normal wear and tear to the system

Inspector is **not required** to:

- 1) Identify property lines
- 2) Offer warranties or guarantees of any kind
- 3) Calculate the strength, adequacy, or efficiency of any system or component
- 4) Operate any system or component that does not respond to normal operating controls
- 5) Move excessive vegetation, structures, personal items, panels, furniture, equipment, snow, ice, or debris that obstruct access to or visibility of the system and any related components
- 6) Determine the presence or absence of any suspected adverse environmental condition or hazardous substance, including toxins, carcinogens, noise, and contaminants in the building or in soil, water, and air
- 7) Determine the effectiveness of any system installed to control or remove suspected hazardous substances
- 8) Predict future condition, including failure of components

- 9) Project operating costs of components
- 10) Evaluate acoustical characteristics of any system or component
- 11) Inspect equipment or accessories that are not listed as components to be inspected
- 12) Conduct dosing volume calculations
- 13) Evaluate soil conditions beyond saturation or ponding
- 14) Evaluate for the presence or condition of buried fuel storage tanks
- 15) Evaluate the system for proper sizing, design, or use of proper materials
- 16) Perform a hydraulic load test on the system

Inspector is required to:

- 1) Uncover tank lids and distribution devices so as to gain access unless blocked as described om 21 MCAC 39 .1004(b)(5). The distribution box may remain covered if the Inspector has an alternate method of observing its condition.
- 2) Probe system components where deterioration is suspected
- 3) Report the methods used to inspect the on-site wastewater system
- 4) Open readily accessible and readily openable components
- 5) Report signs of abnormal or harmful water entry into or out of the system or components

As required by 21 NCAC 39 .1002 (1) this contract must be provided by Inspector and signed by client or client’s representative prior to Inspection being performed.

Signature below acknowledges receipt of copy of this contract and acceptance of Inspection as stated above:



 Signature of Client or Client’s Representative



 Signature of Inspector

 Date

August 11, 2021

 Date

Note: 21 NCAC 39 .1002 (2) Requires written permission from owner or owner’s representative to perform the inspection must be acquired prior to the inspection.

Client requesting this inspection has been advised that for a complete inspection to be performed the tank needs to be pumped. Client has declined to have the tank pumped at inspection and hereby acknowledges they have so declined.

Client Signature  _____ Date _____

On-site Wastewater Inspection

[X] Pre-Inspection Contract, signed by Client is attached to Inspection

Property Address 3126 Brickmill Road Street

Lillington NC 27546 City St Zip

Client Name: Vasilin Turintseva Brooke Cohn (Realtor)

Current owner of Record: Sheila Wilburn

Date of Inspection: August 12, 2021

3 Advertised number of bedrooms as stated in MLS or as stated in attached sworn statement by owner or owner's representative

N/A Gallons per day for designed system size or number of bedrooms as stated in available local health department information

[X] Inspection shall include any part of the system located more than 5 feet from the primary structure that is a part of the operations permit

[] Copy of Operations permit from County Environmental Health Attached

[X] Operations permit not available

[] System requires a certified subsurface water pollution control system operator pursuant to G.S. 90A-44 Current Operator's Name

Most recent performance, operation and maintenance reports are [] attached [] not available

Type of water supply [X] Well [] Public Water [] Community Water [] Spring

Location of Septic Tank and septic tank details:

REMARKS

12 ft from house or structure
98 ft from well if applicable
N/A ft from water line if applicable and readily visible
10+ ft. from property line if said property lines are known
14" distance from finished grade to top of tank or access riser
No Access riser(s) []yes [X]no
Describe: N/A
Yes Tank lids intact [X] yes [] no
No Tank has baffle wall []yes [X]no
Describe condition of baffle wall: N/A
Yes Inflow to tank is noted as sufficient
No Inflow to tank is noted as insufficient or blocked
No Water level in tank is relative to tank outlet 10" Below Outlet Pipe
Yes Outlet T is present [X] yes [] no
Describe condition of Outlet T: Significantly deteriorated
No Outlet has filter []yes [X]no
Describe condition of filter: N/A
Yes Effluent leaves the outlet [X]yes []no
No Roots present in tank []yes [X]no
Describe extent of roots: N/A

- Yes Evidence of tank leakage
Describe: 24 hour leak test recommended
- No Evidence of non-permitted connections, such as downspouts or sump pumps
- Yes Connection present from house to tank
- Yes Connection present from tank to next component
- 24% Percentage of solids in tank
- N/A Unable to locate tank. System inspection cannot be completed until tank is located

Date tank was last pumped _____ unknown
 Client requesting this inspection has been advised that for a complete inspection to be performed the tank needs to be pumped. Client has declined to have the tank pumped at inspection and hereby acknowledges they have so declined.

Client Signature _____ See Pre-Inspection Contract for Signatures _____ Date _____

- Does system have pump tank? yes (complete blanks below) no
- _____ ft from house or structure
 - _____ ft from well or spring if applicable
 - _____ ft from water line if applicable
 - _____ ft. from property line if property lines are known
 - _____ ft from septic tank
 - _____ Distance from finished grade to top of tank or access riser
 - Access risers in place yes no
 - Describe type of access risers: _____
 - Describe condition of tank lids: _____
 - Location of control panel: _____
 - Condition of control panel: _____
 - _____ Audible and visible alarms (as applicable) work
 - _____ Pump turns on and effluent is delivered to next component
 - _____ Unable to operate pump due to lack of electricity at site at time of inspection

Dispersal field
 Type of system: Conventional Accepted Innovative Experimental Controlled Demonstration
 Pretreatment; Type of Pretreatment _____

- Brief Description of System Type** Gravity feed to equal distribution, Gravel trench bed
- 10+ ft. from property line if property lines are known
 - 2 ft from septic/pump tank
 - 2 # of lines
 - 90' Length of lines
 - No Evidence of past or current surfacing at time of inspection
Briefly describe: N/A
 - Yes Evidence of traffic over the dispersal field
 - No Vegetation, grading and drainage noted that may affect the condition of the system or system components
 - Yes Effluent is reaching the dispersal field

Conditions present that prevented or hindered the inspection

Adverse conditions present that require repair or subsequent observation or warrants further evaluation by the local health department.

Description of adverse condition: 24-hour leak test confirmed leak of septic tank.

Consequences of the adverse condition:

Client should contact Harnett County Environmental Health and/or a certified on-site wastewater contractor


Other pertinent facts noted during inspection: 24 hour leak test recommended, 48" water level to begin test,
Significant deterioration of Distribution Box, probed through sidewall, Low, wet area in Dispersal Field,
Significant amount of sludge in Distribution Box, Deterioration observed on sidewall of Septic Tank,
Large cracks in both tank lid openings, Effluent partially backing up into Distribution Box from one outlet

Inspector Name: Carson Lynn Certification # 53661

Address 7713 Pegram Street, Willow Spring, N.C. 27592

Phone 919-753-3559

No representation, warranties or opinions are hereby given, written or expressed otherwise, as to the future performance of onsite wastewater system described herein. This onsite wastewater system inspection is a presentation of system facts in place on date of inspection.

Inspector Signature:  Date August 12, 2021

NCOWCICB Current Version of Rules as of 1/1/16

SECTION .1000 - NC ON-SITE WASTEWATER INSPECTOR STANDARDS OF PRACTICE

21 NCAC 39 .1001 DEFINITIONS

As used in this Section:

- (1) "Automatic safety controls" means devices designed and installed to protect systems and components from excessively high or low pressures and temperatures, excessive electrical current, loss of water, high water, fire, freezing, or other unsafe conditions.
- (2) "Component" means a readily accessible and observable part of an on-site wastewater system.
- (3) "Cross connection" means any physical connection or arrangement between potable water and the on-site wastewater system or any other source of contamination.
- (4) "Dangerous or adverse situations" means situations that pose a threat of injury to the inspector, or those situations that require the use of special protective clothing or safety equipment, such as personal protection equipment.
- (5) "Describe" means a written report of a condition found within the system or any observed component of the inspected system.
- (6) "Dismantle" means to take apart or remove any component, device or piece of equipment that is bolted, screwed, or fastened by other means and that would not be taken apart or removed by a homeowner or operator in the course of normal household maintenance.
- (7) "Enter" means to go into an area to inspect all readily accessible, readily openable, and readily visible components.
- (8) "Hydraulic Load Test" means the introduction of water or waste water into a system for the purposes of mimicking the system's peak flows.
- (9) "Inflow" means extraneous water directly entering a component, such as via a sump pump, foundation drain, condensate line, or infiltration.
- (10) "Normal operating controls" means certified operator or homeowner-operated devices.
- (11) "Normal wear and tear" means superficial blemishes or defects that do not interfere with the functionality of the component or system.
- (12) "Operate" means to cause systems or equipment to function.
- (13) "Readily accessible" means approachable or enterable for inspection without the risk of damage to any property or alteration of the accessible space, equipment, or opening.
- (14) "Readily openable access panel" means a panel provided for homeowner or certified operator maintenance and operation that has removable or operable fasteners or latch devices in order to be lifted off, swung open, or otherwise removed for inspection. This definition is limited to those wastewater system components not blocked by stored items, furniture, building components or landscaping.
- (15) "Readily visible" means seen by using natural or artificial light without the use of equipment or tools other than a probe, flashlight or mirror.
- (16) "Roof drainage systems" means gutters, downspouts, leaders, splash blocks, and similar parts used to carry water off a roof and away from a building.
- (17) "Shut down" means a condition or conditions wherein a piece of equipment or system cannot be operated by the device or control that a homeowner should normally use to operate it. If its safety switch or circuit breaker is in the "off" position, or its fuse is missing or blown, the inspector is not required to reestablish the circuit for the purpose of operating the equipment or system.
- (18) "Structural component" means a wastewater system component that supports non-variable forces or weights (dead loads) and variable forces or weights (live loads), such as a control panel support, septic tank, D-box, or manifold.

History Note: Authority G.S. 90A-71, 90A-74:
Eff. October 1, 2011.

21 NCAC 39 .1002 GENERAL REQUIREMENTS

Inspectors shall:

- (1) Provide a written contract, signed by the client or client's representative, before the on-site wastewater system inspection is performed that:
 - (a) States that the on-site wastewater system inspection is conducted in accordance with Rules .1004, .1005, and .1006 of this Section; and
 - (b) Describes what services shall be provided and their cost.
- (2) Obtain written permission from the owner or owner's representative to perform the inspection.
- (3) Inspect readily openable and accessible installed systems and components listed in this Section.
- (4) Submit a written report to the client or client representative within 10 business days of the inspection that:
 - (a) Describes those systems and components required to be described in Rules .1005 through .1006 of this Section;
 - (b) States which systems and components designated for inspection in this Section have been inspected, and state any systems or components designated for inspection that were not inspected, and the reason for not inspecting. Failure to locate the system or components for inspection or "could not locate" shall not be the same as "not visible." If the system or component is not located, the written report shall state the failure to locate the system or components for inspection or "could not locate;"
 - (c) States any systems or components inspected that do not function as intended or harm the wastewater treatment system;
 - (d) States whether the condition reported requires repair or subsequent observation, or warrants further evaluation by the local health department. The statements shall describe the component or system and how the condition is defective, explain the consequences of the condition, and refer the recipient to the local health department or a certified on-site wastewater contractor; and
 - (e) States the name, license number, and signature of the certified inspector.
- (5) Maintain records for a period of seven years.

*History Note: Authority G.S. 90A-71; 90A-72; 90A-74;
Eff. October 1, 2011;
Amended Eff. January 1, 2016; April 1, 2014.*

21 NCAC 39 .1004 GENERAL EXCLUSIONS

- (a) Inspectors shall not be required to report on:
 - (1) Life expectancy of any component or system;
 - (2) The causes of the need for a repair;
 - (3) The methods, materials, and costs of corrections;
 - (4) The suitability of the property for any specialized use;
 - (5) The market value of the property or its marketability;
 - (6) The advisability or inadvisability of purchase of the property; or
 - (7) Normal wear and tear to the system.
- (b) Inspectors shall not be required to:
 - (1) Identify property lines;
 - (2) Offer warranties or guarantees of any kind;
 - (3) Calculate the strength, adequacy, or efficiency of any system or component;
 - (4) Operate any system or component that does not respond to normal operating controls;
 - (5) Move excessive vegetation, structures, personal items, panels, furniture, equipment, snow, ice, or debris that obstruct access to or visibility of the system and any related components;
 - (6) Determine the presence or absence of any suspected adverse environmental condition or hazardous substance, including toxins, carcinogens, noise, and contaminants in the building or in soil, water, and air;
 - (7) Determine the effectiveness of any system installed to control or remove suspected hazardous substances;
 - (8) Predict future condition, including failure of components;
 - (9) Project operating costs of components;
 - (10) Evaluate acoustical characteristics of any system or component; or
 - (11) Inspect equipment or accessories that are not listed as components to be inspected in this Section.

(c) Inspectors and Contractors shall not:

- (1) Offer or perform any act or service contrary to Article 5 of G.S. 90A or the rules of this Chapter; or
- (2) Offer or perform engineering, architectural, plumbing, electrical, pesticide or any other job function requiring an occupational license in the jurisdiction where the inspection, installation, or repair is taking place, unless the on-site wastewater system inspector or contractor holds a valid occupational license in that field, in which case the inspector or contractor shall inform the client that the inspector or contractor is so licensed.

*History Note: Authority G.S. 90A-72; 90A-74;
Eff. October 1, 2011;
Amended Eff. January 1, 2016.*

21 NCAC 39 .1005 ON-SITE WASTEWATER SYSTEM COMPONENTS

(a) When inspecting an on-site wastewater system the inspector shall inspect and describe:

- (1) Any part of the system located more than five feet from the primary structure that is part of the operations permit;
- (2) Septic tanks;
- (3) Pump tanks;
- (4) Distribution devices;
- (5) Dispersal fields;
- (6) Treatment units;
- (7) Control panels;
- (8) Any other components required as part of on-site wastewater system permit, including drainage; and
- (9) Any vegetation and grading with respect only to their effect on the condition of the system or system components.

(b) The inspector shall:

- (1) Uncover tank lids and distribution devices so as to gain access, unless blocked as described in Rule .1004(b)(5) of this Section. The distribution box may remain covered if the inspector has an alternate method of observing its condition;
- (2) Probe system components where deterioration is suspected;
- (3) Report the methods used to inspect the on-site wastewater system;
- (4) Open readily accessible and readily openable components; and
- (5) Report signs of abnormal or harmful water entry into or out of the system or components.

(c) The inspector is not required to:

- (1) Conduct dosing volume calculations;
- (2) Evaluate soil conditions beyond saturation or ponding;
- (3) Evaluate for the presence or condition of buried fuel storage tanks;
- (4) Evaluate the system for proper sizing, design, or use of proper materials; or
- (5) Perform a hydraulic load test on the system.

*History Note: Authority G.S. 90A-72; 90A-74;
Eff. October 1, 2011;
Amended Eff. January 1, 2013.*

21 NCAC 39 .1006 MINIMUM ON-SITE WASTEWATER SYSTEM INSPECTION

(a) The inspector shall obtain, evaluate, describe, or determine the following during the inspection:

- (1) Advertised number of bedrooms as stated in the realtor Multiple Listing Service information or by a sworn statement of owner or owner's representative; and
- (2) Designed system size (gallons per day or number of bedrooms) as stated in available local health department information, such as the current operation permit or the current repair permit.

(b) The inspector shall obtain, evaluate, describe, or determine the following during the inspection:

- (1) Requirement for a certified subsurface water pollution control system operator pursuant to G.S. 90A-44, current certified operator's name, and most recent performance, operation and maintenance reports (if applicable and available);
- (2) Type of water supply, such as well, spring, public water, or community water;
- (3) Location of septic tank and septic tank details:
 - (A) Distance from house or other structure;
 - (B) Distance from well, if applicable;
 - (C) Distance from water line, if applicable and readily visible;

- (D) Distance from property line, if said property lines are known;
 - (E) Distance from finished grade to top of tank or access riser;
 - (F) Presence and type of access risers;
 - (G) Condition of tank lids;
 - (H) Condition of tank baffle wall;
 - (I) Water level in tank relative to tank outlet;
 - (J) Condition of outlet tee;
 - (K) Presence and condition of outlet filter, if applicable;
 - (L) Presence and extent of roots in the tank;
 - (M) Evidence of tank leakage;
 - (N) Evidence of inflow non-permitted connections, such as from downspouts or sump pumps;
 - (O) Connection present from house to tank;
 - (P) Connection present from tank to next component;
 - (Q) Date tank was last pumped, if known; and
 - (R) Percentage of solids (sludge and scum) in tank;
- (4) Location of pump tank and pump tank details:
- (A) Distance from house or other structure;
 - (B) Distance from well or spring, if applicable;
 - (C) Distance from water line, if applicable;
 - (D) Distance from property line, if said property lines are known;
 - (E) Distance from finished grade to top of tank or access riser;
 - (F) Distance from septic tank;
 - (G) Presence and type of access risers;
 - (H) Condition of tank lids;
 - (I) Location of control panel;
 - (J) Condition of control panel;
 - (K) Audible and visible alarms (as applicable) work;
 - (L) Pump turns on, and effluent is delivered to next component; and
 - (M) Lack of electricity at time of inspection prevented complete evaluation;
- (5) Location of dispersal field and dispersal field details:
- (A) Type of dispersal field;
 - (B) Distance from property line, if said property lines are known;
 - (C) Distance from septic tank and also pump tank if a pump tank exists;
 - (D) Number of lines;
 - (E) Length of lines;
 - (F) Evidence of past or current surfacing at time of inspection;
 - (G) Evidence of traffic over the dispersal field;
 - (H) Vegetation, grading, and drainage with respect only to their effect on the condition of the system or system components; and
 - (I) Confirmation that system effluent is reaching the drainfield; and
- (6) Conditions that prevented or hindered the inspection or determination of Subparagraph (b)(1) through (b)(5) of this Rule.
- (c) If a client declines to allow a tank to be pumped, the inspection form shall contain the statement:
"Client requesting this inspection has been advised that for a complete inspection to be performed, the tank needs to be pumped. Client has declined to have the tank pumped at inspection and hereby acknowledges they have so declined." A space shall be provided for the client signature and date.
- (d) The inspector shall not:
- (1) Insert any tool, probe, or testing device inside pump system control panels; or
 - (2) Dismantle any electrical device or control other than to remove the covers of the main and auxiliary control panels.

*History Note: Authority G.S. 90A-72; 90A-74;
Eff. October 1, 2011;
Amended Eff. January 1, 2016; April 1, 2014.*

3126 Brickmill Road Pictures



View of Location of Septic Tank Inlet and Outlet Lids



View of Septic Tank Inlet End



View of Septic Tank Inlet End



View of Inlet Compartment After Pumping of Tank



View of Septic Tank Outlet End



View of Septic Tank Outlet Tee



View of Location of Distribution Box



View of Inside of Distribution Box, Probed Through Sidewall



View of Inside of Distribution Box



View of Dispersal Field



View of Dispersal Field



View of Low, Wet Area in Dispersal Field, Evidence of Traffic in Dispersal Field



Excavations Filled and Site Cleaned

< Contact Agent Save Share >

< Address, City, Zip, Neigh

By Gail Adams with RE/MAX SIGNATURE REALTY



1 / 16



Veterans: Check Eligibility for a \$0 Down

Pending

\$189,900 Est. **\$755/mo**

3 bed 1.5 bath 1,150 sqft

3126 Brickmill Rd, Lillington, NC 27546

Street View

Single Family
Property Type

10 Days
Time on realtor.com

\$165
Price per sqft

1 car
Garage

1977
Year Built

Ask a question Share this home