

HARNETT COUNTY HEALTH DEPARTMENT
ENVIRONMENTAL HEALTH SECTION
307 W. CORNELIUS HARNETT BLVD.
LILLINGTON, NC 27546
910-893-7547 PHONE
910-893-9371 FAX

Application for Repair

EMAIL ADDRESS: hopeZivitski@gmail.com

OWNER NAME Hope Zivitski

PHONE 919-214-0548

PHYSICAL ADDRESS 267 Capitol Hill Rd, Lillington NC 27546

MAILING ADDRESS (IF DIFFERENT THAN PHYSICAL) 341 Rebecca Lane, Siler City NC 27544

IF RENTING, LEASING, ETC., LIST PROPERTY OWNER NAME _____

SUBDIVISION NAME _____ LOT #/TRACT # _____ STATE RD/HWY _____ SIZE OF LOT/TRACT _____

Type of Dwelling: Modular Mobile Home Stick built Other _____

Number of bedrooms 3 Basement

Garage: Yes No Dishwasher: Yes No Garbage Disposal: Yes No

Water Supply: Private Well Community System County

Directions from Lillington to your site: off South River Road

In order for Environmental Health to help you with your repair, you will need to comply by completing the following:

1. A "surveyed and recorded map" and "deed to your property" must be attached to this application. Please inform us of any wells on the property by showing on your survey map.
2. The outlet end of the tank and the distribution box will need to be uncovered and property lines flagged. After the tank is uncovered, property lines flagged, underground utilities marked, and the orange sign has been placed, you will need to **call us at 910-893-7547 to confirm that your site is ready for evaluation.**

Your system must be repaired within 30 days of issuance of the Improvement Permit or the time set within receipt of a violation letter. (Whichever is applicable.)

By signing below, I certify that all of the above information is correct to the best of my knowledge. False information will result in the denial of the permit. The permit is subject to revocation if the site plan, intended use, or ownership changes.

Hope Zivitski
Owner Signature

10/7/22
Date

HOMEOWNER INTERVIEW FORM

It is important that you answer the following questions for our inspectors. Please do not leave any blanks if possible, and answer all questions to the best of your ability. Thank You.

Have you received a violation letter for a failing system from our office? YES NO
Also, within the last 5 years have you completed an application for repair for this site? YES NO

Year home was built (or year of septic tank installation) 1980
Installer of system _____
Septic Tank Pumper _____
Designer of System _____

1. Number of people who live in house? 1 ^{Most recent} # adults _____ # children 0 # total _____
2. What is your average estimated daily water usage? _____ gallons/month or day _____ county water. If HCPU please give the name the bill is listed in Sam + Hope Zivitsky
3. If you have a garbage disposal, how often is it used? daily weekly monthly N/A
4. When was the septic tank last pumped? 9 yrs How often do you have it pumped? _____
5. If you have a dishwasher, how often do you use it? daily every other day weekly N/A
6. If you have a washing machine, how often do you use it? daily every other day weekly monthly
7. Do you have a water softener or treatment system? YES NO Where does it drain?

8. Do you use an "in tank" toilet bowl sanitizer? YES NO
9. Are you or any member in your household using long term prescription drugs, antibiotics or chemotherapy? YES NO If yes please list _____
10. Do you put household cleaning chemicals down the drain? YES NO If so, what kind?

11. Have you put any chemicals (paints, thinners, etc.) down the drain? YES NO
12. Have you installed any water fixtures since your system has been installed? YES NO If yes, please list any additions including any spas, whirlpool, sinks, lavatories, bath/showers, toilets _____
13. Do you have an underground lawn watering system? YES NO
14. Has any work been done to your structure since the initial move into your home such as, a roof, gutter drains, basement foundation drains, landscaping, etc? If yes, please list N/A
15. Are there any underground utilities on your lot? Please check all that apply:
 Power Phone Cable Gas Water
16. Describe what is happening when you are having problems with your septic system, and when was this first noticed?
Septic inspection unveiled concerns - see evaluation (emailed)
17. Do you notice the problem as being patterned or linked to a specific event (i.e., wash clothes, heavy rains, and household guests?) YES NO If Yes, please list N/A



Advantage Inspection

4020-300 Wake Forest Rd. Raleigh, NC 27609 Ph# 919-850-2526

SEPTIC SYSTEM EVALUATION

Date: September 16, 2022
Report for: Shannon Rotondi
Inspection address: 267 Capitol Hill Road, Lillington, NC 27546
Realtor: Jerry Robtoy (Raleigh Realty)
System Design: 1980



The following photo log and inspection dissertation provide visual and procedural inspection information at the time of the inspection. Please skip to the conclusion in the report to see any repairs and/or suggestions that may be considered necessary.

PHOTO LOG:

Septic tank location shown.



Outlet side of septic tank location shown



Outlet inspection port lid noted as damaged/broken



Outlet side of septic tank shown open for inspection



Inlet side of septic tank shown (inlet drain pipe noted as damaged)



Effluent level noted as being 1" low



Minor deterioration shown on outlet baffle tee



Location of distribution box shown behind septic tank



Location of distribution box shown



Distribution box shown open for inspection



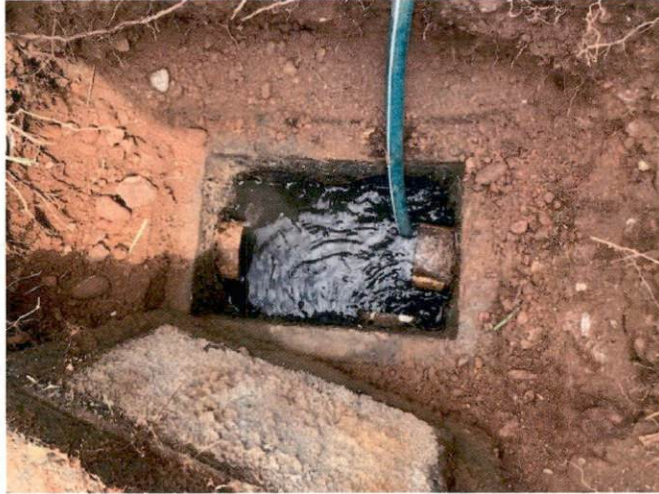
Solids shown collected inside of distribution box



Distribution box shown with minor deterioration



Distribution box shown being charged with water



Drain lines noted as not taking water. Dbox flooded



Suspected area of drain field



Suspected area of drain field



Inspection Limitations:

- The septic tank was not pumped at the time of the inspection. It is not possible to inspect or report on physical conditions with respect to the septic tank interior below the wastewater effluent levels or to fully determine the condition of the drain field lines due to being installed below the surface dirt grade.
- The home has been vacant for an unknown period, so the system was not inspected under normal operating conditions. Any speculation about the operating efficiency of the system is inconclusive when the system has been inactive for more than thirty days**
- The permit was not available in time for the inspection. The permit indicates the systems size relative to the number of bedrooms for this design and the location of the drain fields and distribution box.

System Type: Conventional Gravity– Gravity feed distribution systems are the most commonly found/used septic systems and utilizes gravity alone to pass wastewater effluent from the septic tank to the drain field.

System Design: The home is listed as Three bedrooms – Load requirements have not been confirmed by information determined at the site inspection as being as stated in the permit used at the time of the original installation for this system design. The permit was not available prior to inspection.

Kitchen Disposal: Not Installed - **A food waste disposal system is not recommended to be used with a septic system.**

Field Observations: The septic tank is and drain field grading to the back of the lot.

Tank location: Approximately 10 feet away from the house.

Tank size: Guesstimated 900 gallons concrete mid seam (typical in system designs servicing 3-bedroom homes)

Water Source: Private Well

Property side setbacks: The septic tank and drain lines (nitrification field) are all visually confirmed as being located more than 10 feet from any properly line.

Repair Area: The repair area for this system would not be designated on the originally issue permit. The system is too old. A repair area is a dedicated spot on the lot to install new drain fields should they fail.

Description.	Good	Comments	Fair	Poor
Field View (visual only observations) grade of yard	x	Suspected of grading to back of lot		
Rust / Cracks on tank Interior		Not Pumped not inspected		
Outlet			X	
Upper crust Inlet*			3"	
Lower sludge Inlet*	0"			
Upper crust Outlet*				32"
Lower sludge Outlet*				25"

*The Health Department recommends the combination of upper crust and lower-level sludge to be maintained less than 1/3 the total volume of the primary chamber depth and that the lower-level sludge to be more than 3 inches below the inlet to the secondary drain trap. **Preventive maintenance pumping of the septic tank is considered necessary at this time. Maintenance pumping is recommended to be performed every four to five years.**

1) The septic tank is located approximately 10 feet off the back of the home foundation. The primary chamber was not excavated due to the findings inside of the secondary chamber (outlet side of the septic tank). Solids were measured through the small access opening inside of the outlet side. Accumulated solids were noted as being at an acceptable level. The outlet side of the chamber was opened and inspected.

The septic tank was determined to be a single chamber top seal system which are no longer allowed to be used in current installations.

2) The outlet side of the septic tank was excavated, opened, and inspected. The outlet side of the chamber was opened, and the entire visual inspection was limited to the access vantage.

Accumulated solids were noted as not being at an acceptable level. The outlet baffle was probed for structural integrity.

Note:

- **The outlet side panel lid was noted as damaged/broken (see photo).**
- **Minor deterioration was noted on the cement outlet baffle located inside the outlet chamber (see photo).**

3) Water levels under normal conditions inside the septic tank would place the wastewater effluent level at the invert of the outlet drain (the bottom edge of the outgoing drainpipe) and typically, the outgoing drainpipe is installed at a lower elevation inside the septic tank than that of the incoming drainpipe. The effluent level inside the septic tank was observed being as much as 1" inch lower than what normal conditions would be. The house is known to have been inactive for an unknown period, and inactivity can be considered as a reason for some reduction in effluent level as the effluent can evaporate through the whole house waste pipe system at a rate of up to 1" a month (equates to approximately 20 gallons of water loss) in some cases. The home would have had to have been vacant for close to 1 month for the current effluent level to be considered attributed to naturally occurring evaporation alone. If this system is not verified as having been inactive for a very long period, leaking in the septic tank itself should be considered as the reason for the lower effluent level. Leak checking should be performed in order to verify that structural integrity of the septic tank. Leak checking requires that the effluent level inside the tank needs to be filled back to a normal level and then checked after a 24- hour time period. Only a 1/2" reduction in water level can be present within this period. If more than 1/2" in reduced lower effluent levels are present, the tank structural integrity is compromised, and repair/replacement will be considered necessary. **Due to the lower effluent level, currently inside the septic tank, have a qualified septic tank installation contractor provide further evaluation to determine if the structural integrity of the septic tank is compromised (leaking) and provide a repairs/replacement if considered necessary.**

Note:

- **Visual signs of fluctuation were present inside of the tank (solids collected on top of the baffle wall and top of septic tank).**

4) Probing for the distribution box in the known area of the drain field was successful and the distribution box was located, opened to visually inspect. **Adverse** conditions were present inside of the distribution box. A field distribution box distributes equal volumes of wastewater effluents to the typically installed multiple individual drain field lines. The general area of the drain field (back of the property) was walked to inspect for surface water. Further evaluation of the systems operating performance needs to be provided by a qualified contractor. ****This is mostly inconclusive as the system has been vacant for an unknown period**

Note:

- **When the distribution box was charged with water effluent was noted as not flowing to the two drain lines. There is a higher sustained effluent level inside of the distribution box at the two drain lines (see photo). The higher effluent level is an indication that there is a restriction in the outgoing drain line leading to the drain field/not properly flowing to drain field. Due to the sustained higher effluent level**

inside the distribution box at the two drain lines, have a qualified contractor further evaluate and make all necessary repairs.

- **An evaluation of the drain field's ability to disperse effluent to the surrounding sub surface soils needs to be completed after any repairs/cleaning/removal of solids found blocking the effluent flow is removed**.**
- **The distribution box was noted as having solids collected in the bottom. Solids can collect inside of distribution box and deteriorate the interior sidewalls of the distribution box. Solids collected inside of the distribution box can also flow into the drain lines resulting in restriction of flow.**
- **Minor deterioration was present inside of the distribution box. Although still functioning as intended it is suggested that the box be evaluated at the time of next scheduled maintenance service.**

Due to the mature trees in the back yard, it is suggested that a preventative maintenance treatment of a root killer be added in the septic system to kill off any root mass intruding into the drain lines. Any products (specified for septic system use) that consist mostly of copper sulfate will kill off existing roots and prevent further root growth from growing in and around the drain lines.

5) The normal aging of this system will decrease the drain field's ability to dissipate wastewater effectively during periods of heavy loading. Over time drain fields will decrease in the effectiveness of dissipating wastewater effluent into the surrounding soils and is a naturally occurring aging process of the system. It should be expected that this system will provide service for as much as fifty years if properly maintained.

6) Limit any/all drive traffic in the known area of the septic tank and drain lines. The drain field works by absorbing water in the soils as well as by some evapotranspiration. The soils beneath the drain field lines need oxygen so that the microbes in the soil can treat the effluent from the drain field. Permanent structures build/placed over a drain field can restrict the oxygen flow into the soil and will restrict the evapotranspiration process. Additionally, a big risk to placing structures over a drain field or allowing drive trafficking over the drain field is causing the lines to collapse. Also, the soil can compact around the trenches, which may not allow for percolation. Repairing the drain field or moving it may require an entirely new system depending on your system age and the regulations for your local authority. Do not place structures or drive vehicles over the known area of the septic system/drain field.

7) Limit use of the septic system to body waste only. Disposal of female hygiene products, contraceptives, latex gloves baby and facial makeup wipes large amounts of paper products and kitchen waste products or plastic can shorten expected drain field life expectancy.

8) For more information about a septic system and the responsibilities associated with it, go to the following web site: <http://www.soil.ncsu.edu/publications/Soilfacts/AG-439-13/index.htm>

Conclusion:

Septic system was fully evaluated at the time of the inspection. The system is working at a much-reduced operating rate given the age of the system. **Adverse** conditions were shown to be present in the system itself that require further evaluation and/or repairs to be made by a qualified contractor or subsequent observation that warrants further evaluation by the local health department. **

Adverse Inspection Observations:

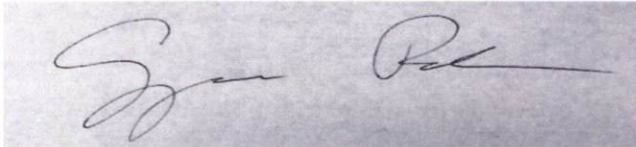
- **The outlet side panel lid was noted as damaged/broken (see photo).**
- **Accumulated solids inside of the septic were measured as being higher than state recommended acceptable operating levels.**
- **The effluent level inside the first septic tank was observed being as much as 1” inch lower than what normal conditions would be.**
 - **Note: A procedural method of “leak checking” is used to validate the septic tank structural integrity is compromised.**
- **When the distribution box was charged with water effluent was noted as not flowing to the two drain lines. There is a higher sustained effluent level inside of the distribution box at the two drain lines (see photo). The higher effluent level is an indication that there is a restriction in the outgoing drain line leading to the drain field/not properly flowing to drain field. Due to the sustained higher effluent level inside the distribution box at the two drain lines, have a qualified contractor further evaluate and make all necessary repairs.**
 - **An evaluation of the drain field’s ability to disperse effluent to the surrounding sub surface soils needs to be completed after any repairs/cleaning/removal of solids found blocking the effluent flow is removed**.**
- **The distribution box was noted as having solids collected in the bottom. Solids can collect inside of distribution box and deteriorate the interior sidewalls of the distribution box. Solids collected inside of the distribution box can also flow into the drain lines resulting in restriction of flow.**
- **Due to the observations of restricted effluent flow (fluctuation) during periods of heavy loading (underside of septic tank lids and solids collected on top of the baffle wall), a qualified contractor should further evaluate the drain line and make repairs as necessary to provide the highest level of operating efficiency in the system****

The following preventative maintenance suggestions are recommended to be followed:

- **Minor deterioration was noted on the cement outlet baffle located inside the outlet chamber (see photo).**
- **Minor deterioration was present inside of the distribution box. Although still functioning as intended it is suggested that the box be evaluated at the time of next scheduled maintenance service.**
- **Keep the landscape at the septic field location free of large shrubs/trees and mowed. This will prevent root intrusion into the drain lines and help promote transpiration of the effluent being dispersed from the system.**

- It is suggested that a preventative maintenance treatment of a root killer be added in the septic system to kill off any root mass intruding into the drain lines. Any products (specified for septic system use) that consist mostly of copper sulfate will kill off existing roots and prevent further root growth from growing in and around the drain lines.

Please note that suggestions are not a "required repair". Suggestions are a means to improve on the system's ability to process wastewater in the home based on more recent requirements mandated in newer system installation or as a personal safety concern alone. Inspections cannot require an older system (even if more recent repairs have been noted) to be brought up to installation standards other than what was required at the time of the original installation and/or noted repairs currently existing in the system. Suggestions are only provided so that the current service provider can be aware of ways to improve/enhance the operation of the existing system in order to extend the useful life of the system.



9/16/2022

NCOWCICB State License # 50351

North Carolina Onsite Wastewater Contractor Inspector Certification Board

Disclaimer:

Because of the visual nature of this septic system, it is not possible to inspect or report on physical conditions with regard to the septic tank interior below the wastewater effluent levels if the inspection was performed without pumping of the septic tank or the drain field lines due to being installed in the sub surface dirt grade. The inspector can only address those areas that are readily accessible at the time of the inspection. A septic system inspection is a "snapshot" of the system at the time of the inspection; it is designed to educate a buyer or seller about the system, not to replace the obligation of a home seller to disclose known defects. Observations made may require speculation on the part of the inspector in the analysis of how the system has been provided for and what the expectations of the system may be. A septic system inspection is not a guarantee or warranty of the condition of the system; neither is it a guarantee that conditions will not change in the future. Advantage does not make any representation to the "life expectancy" of the tank or the system. Our inspection is based on a one-time field observation and recommendation.

We recommend that appropriately licensed professionals carry out all repairs. Your real estate contract may include this as a stipulation as well. We also recommend that the buyer retain all repair work orders, receipts, and guarantees for future reference. If Advantage Inspection performs an inspection of the system after repairs are completed, the repair work orders, and receipts must be made available to the inspector at the time of the re-inspection. Some repairs, such as back flushing of the septic drain lines, cannot be confirmed visually, and at times the repair receipts are the only indication of the nature and suitability of the repair. Please ensure that relevant repair receipts will be available for view by your septic system inspector during the re-inspection, if asked to perform.

*This evaluation/inspection meets the requirements of the state and local environmental health service agencies with respect to required observations and/or notation of limitations present at the time of the inspection.

** Only an official of Environmental Health Services Department can qualify a system as being failed.

FOR REGISTRATION
Kimberly S. Hargrove
REGISTER OF DEEDS
Harnett County, NC
2012 AUG 02 11:29:30 AM
BK: 3019 PG: 283-284
FEE: \$26.00
EXCISE TAX: \$110.00
INSTRUMENT # 2012012245
ABMCNEILL

HARNETT COUNTY TAX ID#

130621 0090

8/2/12 BY MT



2012012245

NORTH CAROLINA GENERAL WARRANTY DEED

Excise Tax: \$

PIN:

Mail To: **Jason O. Wunsch**

P.O. Box 365 Lillington, NC 27546

This instrument was prepared by: **JASON ORA WUNSCH**

Brief description for the Index Lot 158 Keith Hills

THIS DEED made this 30 day of **July, 2012** by and between

GRANTOR

GRANTEE

Daniel R. Gagnon
267 Capitol Hill Rd.
Lillington, NC 27546

Hope Zivitski and husband Samuel Zivitski
267 Capitol Hill Rd.
Lillington, NC 27546

The designation Grantor and Grantee as used herein shall include said parties, their heirs, successors, and assigns, and shall include singular, plural, masculine, feminine or neuter as required by context.

WITNESSETH, that the Grantor, for a valuable consideration paid by the Grantee, the receipt of which is hereby acknowledged, has and by these presents does grant, bargain, sell and convey unto the Grantee in fee simple, all that certain lot or parcel of land situated in the City of , Upper Little River Township, Harnett County, North Carolina and more particularly described as follows:

BEING all of Lot No. 11 in the subdivision known as "Capital Hills", in Upper Little River Township, of Harnett County, North Carolina, approximately three (3) miles West from Lillington, North Carolina, on the south side of Rural Paved Road No. 1257, known as "River Road". Said tract of land being more particularly described according to a plat in map book 11, page 52, prepared by G.R. Johnson, Registered Surveyor, in May 1964 and is by reference incorporated herein as a part of this description.

This property is not the primary residence of the Grantor.

The property herein above described was acquired by grantor in Book 2631, Page 776 of the Harnett County Registry.

A map showing the above described property is recorded in Map Book 11, page 52, of the Harnett County Registry.

TO HAVE AND TO HOLD the aforesaid lot or parcel of land and all privileges and appurtenances thereto belonging to the Grantee in fee simple.

And the Grantor covenants with the Grantee, that Grantor is seized of the premises in fee simple, has the right to convey the same in fee simple, that title is marketable and free and clear of all encumbrances, and that Grantor will warrant and defend the title against the lawful claims of all persons whomsoever, other than the following exceptions:

THIS PROPERTY IS SUBJECT TO RESTRICTIONS AND EASEMENT OF RECORDS.

IN WITNESS WHEREOF, the Grantor has duly executed the foregoing as of the day and year first above written

Daniel R. Gagnon (Seal)
Daniel R. Gagnon

SEAL - STAMP



State of North Carolina, Harnett County.

I, Jessica M. Clark Notary Public of the County and State aforesaid, certify that Daniel R. Gagnon personally appeared before me and executed the foregoing instrument. Witness my hand and official stamp or seal, this 30 day of July, 2012.

My commission expires: 03/08/2017

Jessica M. Clark
Notary Public



Eastern Septic & Inspections LLC

283 Pump Station Road
 Erwin, NC 28339
 910-580-1500
 NC License Number 5572

Invoice

Date	Invoice #
10/6/2022	10796

Bill To
Hope Zivitski 267 Capitol Hill Road Lillington, NC 27546

P.O. No.	Terms	Project
Capitol Hill Rd	Due on receipt	

Quantity	Description	Rate	Amount
1	Leak Down Test:	225.00	225.00
1	Snaked Drainage Lines	150.00	150.00
	Initial site visit to snake drainage lines to try to clear blockages at the distribution box		
	Findings Both inlet and outlet lids to septic tank have deteriorated and broken. Leakdown test was performed with a waiting period of 24 hours and tank did not show signs of a decrease in effluent level. When we snaked the lines their appeared to be no blockages however there was appeared to be alot of biomat and the drain lines were not taking on any effluent. Please refer to Harnett County Environmental (for further evaluation so that the next steps for repair can be determined.		
Please remit to address above or call 910-580-1500 to make payment by phone. Thank You!!		Total	\$375.00