ZIERKE SOIL TESTING

Charles Nordin 19977 Keystone Ave N Forest Lake, MN 55025

5/14/2019

Dear Charles Nordin,

At your request, I have conducted a septic inspection 19977 Keystone Ave in Forest Lake, Minnesota to determine the compliance status of the system pursuant to Minnesota Rules Chapter 7080.1500.

The compliance test set out in 7080.1500 has three main inquiries: 1). Is the system functioning hydraulically (disposing of effluent in a manner that prevents it from coming in contact with people)? 2). Are the septic tanks water tight? 3). Does the system have sufficient vertical separation between the bottom of the septic system and restrictive layers (bedrock, standing water, seasonally wet layers, etc) to provide full treatment of effluent?

Based off of these criteria, this system is <u>compliant</u>. A certification of compliance is in effect for three years from the date it is issued. To be clear, this should not be construed as a guarantee of future system function – there are too many factors that influence the lifespan of a septic system for an inspector to predict or even guess how long a septic system will last. Proper care and maintenance of the system can prolong lifespan – see https://septic.umn.edu/septic-system-owners for more information.

PHONE 651-249-1346

benzierke@gmail.com

EMAIL

Sincerely,

Benjamin Zierke

ADDRESS: 28587 Jeffrey Ave Chisago City, MN 55013



520 Lafayette Road North St. Paul, MN 55155-4194

Compliance Inspection Form

Existing Subsurface Sewage Treatment Systems (SSTS)

Doc Type: Compliance and Enforcement

Inspection results based on Minnesota Pollution Control Agency (MPCA) requirements and attached forms – additional local requirements may also apply.	For local tracking purposes:
Submit completed form to Local Unit of Government (LUG) and system owner within 15 days	
System Status	
System status on date (mm/dd/yyyy):5/14/2019	
	pliant – Notice of Noncompliance e Requirements on page 3.)
Reason(s) for noncompliance (check all applicable) Impact on Public Health (Compliance Component #1) – Imminent threat to the Compliance Compliance Component #3) – Imminent the Tank Integrity (Compliance Component #2) – Failing to protect groundware Compliance Compliance Component #3) – Failing to protect groundware Soil Separation (Compliance Component #4) – Failing to protect groundware Component Protect groundware	reat to public health and safety ter rotect groundwater vater
Property Information Parcel ID# or Sec/Twp/Rai	ago:
• •	for inspection: Sale
	phone: 651-808-2210
Of	511011C
Owner's representative: Represe	entative phone:
Local regulatory authority: Washington County Regulat	ory authority phone: 651-430-6655
Brief system description: 1250 gallon septic tank, gravity rock trench drainfield	
Comments or recommendations:	
Certification	
I hereby certify that all the necessary information has been gathered to determine the determination of future system performance has been nor can be made due to unknot possible abuse of the system, inadequate maintenance, or future water usage.	compliance status of this system. No wn conditions during system construction,
Inspector name: Benjamin Zierke Certifica	ation number: C9594
Business name: Zierke Soil Testing Lice	ense number: L119
Inspector signature: By	none number: 651-249-1346
Necessary or Locally Required Attachments	
	r local ordinance

1.	Impact on Public Health - C	ompliance compor	(mm/dd/yyyy)			
	Compliance criteria:		Verification method(s):			
12	System discharges sewage to the ground surface.	☐ Yes ⊠ No	 ☑ Searched for surface outlet ☑ Searched for seeping in yard/backup in home 			
//5	System discharges sewage to drain tile or surface waters.	☐ Yes ⊠ No	☐ Excessive ponding in soil system/D-boxes ☐ Homeowner testimony (See Comments/Explanation)			
	System causes sewage backup into dwelling or establishment.	☐ Yes ⊠ No	☐ "Black soil" above soil dispersal system ☐ System requires "emergency" pumping			
92	Any "yes" answer above indicates the system is an imminent threat to public health and safety.		☐ Performed dye test ☐ Unable to verify (See Comments/Explanation) ☐ Other methods not listed (See Comments/Explanation)			
2.	Comments/Explanation: Chuck did not report any past issues - Tank Integrity — Compliance					
	Compliance criteria:		Verification method(s):			
	System consists of a seepage pit, cesspool, drywell, or leaching pit.	☐ Yes ⊠ No	☐ Probed tank(s) bottom ☐ Examined construction records			
	Seepage pits meeting 7080.2550 may be compliant if allowed in local ordinance.		 Examined Tank Integrity Form (Attach) Observed liquid level below operating depth 			
	Sewage tank(s) leak below their designed operating depth. If yes, which sewage tank(s) leaks:	☐ Yes ☒ No	☑ Examined empty (pumped) tanks(s)☐ Probed outside tank(s) for "black soil"			
	Any "yes" answer above indicates the system is failing to protect groundwater.		 ☐ Unable to verify (See Comments/Explanation) ☐ Other methods not listed (See Comments/Explanation) 			
1000			ank in good condition and baffles still in place.			
3.	Other Compliance Condition					
			ed, or appear to be structurally unsound. Yes* No Unknown			
	b. Other issues (electrical hazards, etc.) *System is an imminent threat to		versely impact public health or safety. ☐ Yes* ☐ No ☐ Unknown fety.			
	Explain:					
	c. System is non-protective of ground *System is failing to protect grown Explain:		ons as determined by inspector . Yes* No			

Property address: 19977 Keystone Ave N Forest Lake, MN 55025

Inspector initials/Date: BZ | 5/14/2019

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4 6	de la companya de la					(mm/dd/yyyy)	
	il Separation — Compliance co finstallation: 1986	mponei Unkn		Verificatio	n method(s):		
(mm/dd/yyyy) Shoreland/Wellhead protection/Food beverage lodging?		☑ Yes ☐ No		Soil observation does not expire. Previous soil observations by two independent parties are sufficient, unless site conditions have been altered or local			
Compl	iance criteria:			requirement			
For systems built prior to April 1, 1996, and		☐ Yes ☐ No		□ Conducted soil observation(s) (Attach boring logs)			
	ted in Shoreland or Wellhead on Area or not serving a food,			☐ Two previous verifications (Attach boring logs)			
	ge or lodging establishment:			☐ Not applicable (Holding tank(s), no drainfield)			
Drainfie	ld has at least a two-foot vertical			☐ Unable to verify (See Comments/Explanation)			
	ion distance from periodically ed soil or bedrock.			Other (Se	ee Comments/Explanation)		
Non-per 1996, o systems Protecti beverage Drainfie separat	rformance systems built April 1, r later or for non-performance s located in Shoreland or Wellhead on Areas or serving a food, ge, or lodging establishment: ld has a three-foot vertical ion distance from periodically	⊠ Yes	□ No	Comments	/Explanation:		
	ed soil or bedrock.*	19 <u>-200</u>					
	mental", "Other", or "Performance"	☐ Yes ☐ No		Indicate d	epths or elevations		
systems built under pre-2008 Rules; Type IV or V systems built under 2008 Rules (7080. 2350 or 7080.2400 (Advanced Inspector License required) Drainfield meets the designed vertical separation distance from periodically saturated soil or bedrock.		B. <u>C</u> .		A. Bottom of	f distribution media	97.5'	
				B. Periodically saturated soil/bedrock		93.5'	
						4.0'+	
				C. System separation D. Required compliance separation*		3.0'	
failing	no" answer above indicates to protect groundwater. erating Permit and Nitroger			Ordinance		f allowed by Local Not applicable	
	e system operated under an Operating		∐ Yes	ATTINITION DECISION IN	'yes", A below is requi		
	e system required to employ a Nitroge		∐ Yes		'yes", B below is requi	rea	
	BMP = Best Management Practice(s)	specified	in the system	design			
If th	ne answer to both questions is "i	no", this	section doe	es not need	to be completed.		
Cor	npliance criteria						
a.	a. Operating Permit number:				Vac 🗆 No		
-	Have the Operating Permit requirements been met?			L	☐ Yes ☐ No		
b.	b. Is the required nitrogen BMP in place and properly functionin			ng?	Yes No		
	y "no" answer indicates Nonc						
disc	rade Requirements (Minn. Stat. § 115.55 ontinued within ten months of receipt of this and water, the system must be upgraded, re of failing as defined in law, and has at least	notice or v placed, or	vithin a shorter p its use discontin	period if require ued within the t	d by local ordinance. If the a time required by local ordina	system is failing to protect ance. If an existing system	

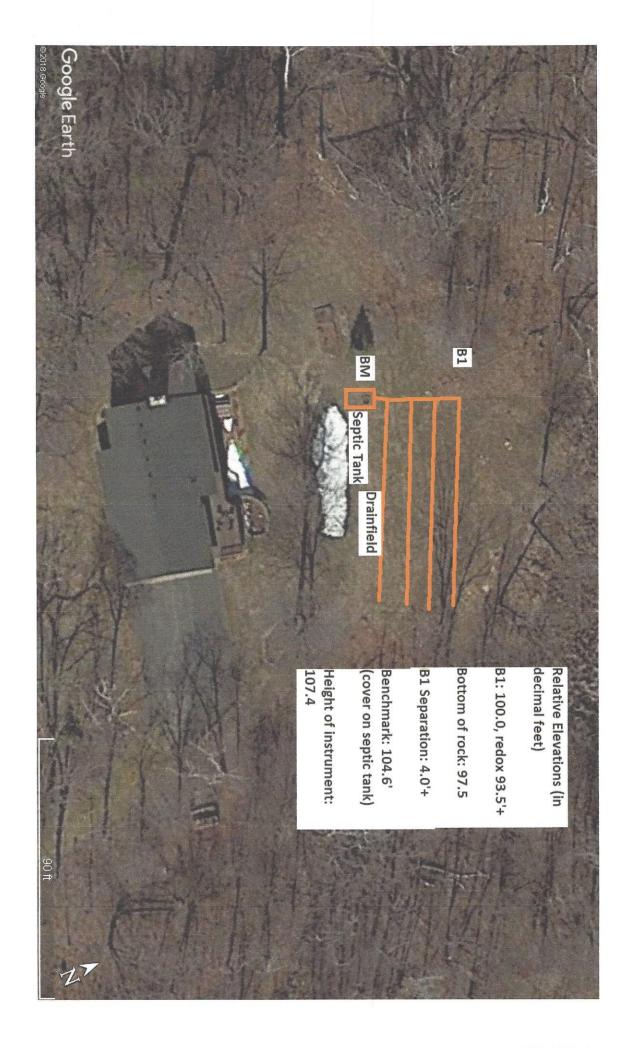
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its use discontinued, notwithstanding any local ordinance that is more strict. This provision does not apply to systems in shoreland areas,

Wellhead Protection Areas, or those used in connection with food, beverage, and lodging establishments as defined in law.

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Logs of Soil Borings

Location of Project:

19977 Keystone Ave N Forest Lake, MN 55025

Borings Made by Ben Zierke

Date:

5/13/2019

Hand bucket auger used for borings; USDA - SCS Soil Classification used.

Depth, in Inches 0 0-6" 6-16"	Boring Number 1 Sandy fill 10YR 3/3 loamy fine sand 10YR 4/4 loamy fine sand, 0-5% coarse fragments, fine dark brown	Depth, in Inches 0	Boring Number 2
60-78"	4/6 bands below 34" 10YR 5/3 loamy fine sand, no redox		
End of boring at Standing water tab Present at Standing water not p Mottled Soil: Observed at Mottled soil not pres Comments:	feet of depth Hours after boring oresent in hole Teet of depth	End of boring at Standing water tabl Present at Standing water not p Mottled Soil: Observed at Mottled soil not pres Comments:	feet of depth Hours after boring resent in hole feet of depth
Depth, in Inches 0	Boring Number 3	Depth, in Inches 0	Boring Number 4
End of boring at Standing water tal Present at Standing water not Mottled Soil: Observed at Mottled soil not pre Comments:	feet of depth Hours after boring present in hole feet of depth	End of boring at Standing water tab Present at Standing water not p Mottled Soil: Observed at Mottled soil not pres Comments:	feet of depth Hours after boring feet of depth feet of depth