ZIERKE SOIL TESTING

Karl and Lainie Deboer 18600 Harrow Ave N Forest Lake, MN 55025

11/29/2021

Dear Karl and Lainie Deboer,

At your request, I have conducted a septic inspection to determine the compliance status of your outbuilding septic 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, your outbuilding septic 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. A copy of this report will be filed with your local unit of government for their records.

Sincerely,

Benjamin Zierke

MPCA Lic 119, Cert 9594

ADDRESS: 28587 Jeffrey Ave Chisago City, MN 55013

PHONE 651-249-1346

EMAIL benzierke@gmail.com



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

Compliance inspection report form

Existing Subsurface Sewage Treatment System (SSTS)

Doc Type: Compliance and Enforcement

Instructions: Inspector must submit completed form to Local Governmental Unit (LGU) and system owner within 15 days of final determination of compliance or noncompliance. Instructions for filling out this form are located on the Minnesota Pollution Control Agency (MPCA) website at https://www.pca.state.mn.us/sites/default/files/wg-wwists4-31a.pdf.

Property information	Local tracking number:		
Parcel ID# or Sec/Twp/Range: 3303221410004	Reason for Inspection Sale		
Local regulatory authority info: Washington County			
Property address: 18600 Harrow Ave N Forest Lake, MN 5502	25		
Owner/representative: Karl Deboer	Owner's phone: 612-325-7002		
Brief system description: (2) 1000 gallon pre-cast septic tanks,	1000 gallon lift tank, drop box rock trench drainfield		
System status			
System status on date (mm/dd/yyyy): 11/29/2021			
☐ Compliant – Certificate of compliance*	☐ Noncompliant – Notice of noncompliance		
(Valid for 3 years from report date unless evidence of an imminent threat to public health or safety requiring removal and	Systems failing to protect ground water must be upgraded, replaced, or use discontinued within the time required by local ordinance.		
abatement under section 145A.04, subdivision 8 is discovered or a shorter time frame exists in Local Ordinance.)	An imminent threat to public health and safety (ITPHS) must be		
*Note: Compliance indicates conformance with Minn. R. 7080.1500 as of system status date above and does not guarantee future performance.	upgraded, replaced, or its use discontinued within ten months of receipt of this notice or within a shorter period if required by local ordinance or under section 145A.04 subdivision 8.		
Reason(s) for noncompliance (check all applica	ble)		
 ☐ Other Compliance Conditions (Compliance comporting System not abandoned according to Minn. R. 7080 ☐ Soil separation (Compliance component #5) – Failing ☐ Operating permit/monitoring plan requirements (Comments or recommendations 	g to protect groundwater nent #3) – Imminent threat to public health and safety nent #3) – Failing to protect groundwater 0.2500 (Compliance component #3) – Failing to protect groundwater		
future system performance has been nor can be made due to unkno inadequate maintenance, or future water usage.	d to determine the compliance status of this system. No determination of own conditions during system construction, possible abuse of the system, are and correct, to the best of my knowledge, and that this information can be		
used for the purpose of processing this form.	e and correct, to the best of my knowledge, and that this information can be		
Business name: Zierke Soil Testing	Certification number: 9594		
Inspector signature:	License number: 119		
(This document has been electronically sign	gned) Phone: 651-249-1346		
Necessary or locally required supporting do	ocumentation (must be attached)		
	required forms		
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Compliance criteria:		Attached supporting documentat	on:
System discharges sewage to the ground surface	☐ Yes* ⊠ No	☐ Other: ☐ Not applicable	
System discharges sewage to drain tile or surface waters.	☐ Yes* ⊠ No		
System causes sewage backup into dwelling or establishment.	☐ Yes* ⊠ No		
Any "yes" answer above indicates imminent threat to public health a		1	
Describe verification methods and	l results:		
None of the above observed during	site visit 11/23/20	21.	
n k integrity – Compliance	e componen	#2 of 5	
Compliance criteria:		Attached supporting documentat	ion:
	e componen		ion: 216
Compliance criteria: System consists of a seepage pit, cesspool, drywell, leaching pit, or other pit? Sewage tank(s) leak below their		Attached supporting documentat ⊠ Empty tank(s) viewed by inspector	216
Compliance criteria: System consists of a seepage pit, cesspool, drywell, leaching pit, or other pit?	☐ Yes* ⊠ No	Attached supporting documentat Empty tank(s) viewed by inspector Name of maintenance business:	216
Compliance criteria: System consists of a seepage pit, cesspool, drywell, leaching pit, or other pit? Sewage tank(s) leak below their	☐ Yes* ⊠ No	Attached supporting documentat Empty tank(s) viewed by inspector Name of maintenance business: License number of maintenance business	216 siness: Olsons 11/23/202
Compliance criteria: System consists of a seepage pit, cesspool, drywell, leaching pit, or other pit? Sewage tank(s) leak below their	☐ Yes* ⊠ No	Attached supporting documentat Empty tank(s) viewed by inspector Name of maintenance business: License number of maintenance bus Date of maintenance: Existing tank integrity assessment (a	216 Siness: Olsons 11/23/202 Attach)
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Compliance criteria: System consists of a seepage pit, cesspool, drywell, leaching pit, or other pit? Sewage tank(s) leak below their designed operating depth? If yes, which sewage tank(s) leaks: Any "yes" answer above indicates.	☐ Yes* ☒ No	Attached supporting documentat Empty tank(s) viewed by inspector Name of maintenance business: License number of maintenance bus Date of maintenance: Existing tank integrity assessment (Date of maintenance (mm/dd/yyyy): (must be v	216 siness: Olsons 11/23/202 Attach) within three years essment complie

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Property Address: 18600 Harrow Ave N Forest Lake, MN 55025	
Business Name: Zierke Soil Testing	Date: 11/29/2021
3. Other compliance conditions – Compliance component #3 o	f 5
3a. Maintenance hole covers appear to be structurally unsound (damaged, cracked, € ☐ Yes* ☒ No ☐ Unknown	etc.), or unsecured?
3b. Other issues (electrical hazards, etc.) to immediately and adversely impact public he	ealth or safety? ☐ Yes* ☒ No ☐ Unknown
*Yes to 3a or 3b - System is an imminent threat to public health and safety.	
3c. System is non-protective of ground water for other conditions as determined by in	spector? ☐ Yes* ☒ No
3d. System not abandoned in accordance with Minn. R. 7080.2500?	☐ Yes* ☒ No
*Yes to 3c or 3d - System is failing to protect groundwater.	
Describe verification methods and results:	
Attached supporting documentation: Not applicable	
4. Operating permit and nitrogen BMP* – Compliance compor	nent #4 of 5 🛛 Not applicable
	nent #4 of 5 ⊠ Not applicable Yes □ No If "yes", A below is required
	/es ☐ No If "yes", A below is required
Is the system operated under an Operating Permit?	/es ☐ No If "yes", A below is required
Is the system operated under an Operating Permit?	Yes ☐ No If "yes", A below is required Yes ☐ No If "yes", B below is required
Is the system operated under an Operating Permit? Is the system required to employ a Nitrogen BMP specified in the system design? BMP = Best Management Practice(s) specified in the system design	Yes ☐ No If "yes", A below is required Yes ☐ No If "yes", B below is required
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usiness Name: Zierke Soil Testing			Date: 11/29/2021		
Soil separation – Compliance com	npone	nt #5 o	f 5		
Date of installation 11/22/1995 (mm/dd/yyyy)	Unkr	nown			
Shoreland/Wellhead protection/Food beverage lodging?	☐ Yes	⊠ No	Attached supporting documentation: ☐ Soil observation logs completed for the	e report	
Compliance criteria (select one):		☐ Two previous verifications of required vertical separation			
5a. For systems built prior to April 1, 1996, and not located in Shoreland or Wellhead Protection Area or not serving a food, beverage or lodging establishment:	⊠ Yes	□ No*	☐ Not applicable (No soil treatment area)	
Drainfield has at least a two-foot vertical separation distance from periodically saturated soil or bedrock.					
		□ No*	Indicate depths or elevations		
April 1, 1996, or later or for non- performance systems located in Shoreland			A. Bottom of distribution media	97.7'	
or Wellhead Protection Areas or serving a food, beverage, or lodging establishment:			B. Periodically saturated soil/bedrock	95.7'	
Drainfield has a three-foot vertical			C. System separation	2.0'	
separation distance from periodically			D. Required compliance separation*	2.0'	
saturated soil or bedrock.*			*May be reduced up to 15 percent if allo Ordinance.	wed by Local	
5c. "Experimental", "Other", or "Performance" systems built under pre-2008 Rules; Type IV or V systems built under 2008 Rules 7080. 2350 or 7080.2400 (Intermediate Inspector License required ≤ 2,500 gallons per day; Advanced Inspector License required > 2,500 gallons per day)	☐ Yes	□ No*			
Drainfield meets the designed vertical separation distance from periodically saturated soil or bedrock.					

Describe verification methods and results:

Upgrade requirements: (Minn. Stat. § 115.55) An imminent threat to public health and safety (ITPHS) must be upgraded, replaced, or its use discontinued within ten months of receipt of this notice or within a shorter period if required by local ordinance. If the system is failing to protect ground water, the system must be upgraded, replaced, or its use discontinued within the time required by local ordinance. If an existing system is not failing as defined in law, and has at least two feet of design soil separation, then the system need not be upgraded, repaired, replaced, or 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:

18600 Harrow Ave N Forest Lake, MN 55025

Borings Made by Ben Zierke

Date:

11/23/2021

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

Depth, in Inches 0 0-14" 14-28" 28-52" 52-60"	Boring Number 1 10YR 3/2 loamy fine sand 10YR 4/4 loamy fine sand 10YR 5/4 loamy fine sand 10YR 5/4 loamy fine sand, thin 4/6 bands, strong redox 7.5YR 5/8 and 10YR 6/1	Depth, in Inches O	Boring Number 2
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 4.3 feet of depth 4.3 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
Depth, in Inches O	Boring Number 3	Depth, in Inches 0	Boring Number 4
End of boring at Standing water tab Present at Standing water not p Mottled Soil: Observed at Mottled soil not pre Comments:	feet of depth Hours after boring feet of depth feet of depth	End of boring at Standing water tab Present at Standing water not p Mottled Soil: Observed at Mottled soil not pre- Comments:	feet of depth Hours after boring present in hole Feet of depth

