ZIERKE SOIL TESTING

Sebastian Corby and Robbi Strandemo 16060 St Croix Trl N Marine on St Croix, MN 55047

December 20th, 2023

Dear Sebastian Corby and Robbi Strandemo,

At your request, I have conducted a septic inspection to determine the compliance status of your 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 system is <u>non-compliant</u> due to a lack of vertical separation between the bottom of your drain field and bedrock as well as two block style bottomless septic tanks. This system is considered "failing to protect groundwater" and <u>is not considered an imminent threat to public health</u>. I am required to provide copies of this report to you and to Washington County. You should contact them as to the next steps that will be required to bring the system into compliance.

Sincerely,

Benjamin Zierke

MPCA Lic 119, Cert 9594

Benjamin Zieske

ADDRESS: 28587 Jeffrey Ave Chisago City, MN 55013

PHONE 651-249-1346 EMAIL benzierke@gmail.com



Compliance inspection report form

Existing Subsurface Sewage Treatment System (SSTS)

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

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/wq-wwists4-31a.pdf.

Property information	Local tracking number:
Parcel ID# or Sec/Twp/Range: 0703119340001	Reason for Inspection Sale
Local regulatory authority info: Washington County	
Property address: 16060 St Croix Trl N Marine on St Croix, MN	N 55047
Owner/representative: Sebastian Corby and Robbi Standemo	Owner's phone:
Brief system description: (2) block style septic tanks and gravity	drainfield
System status	
System status on date (mm/dd/yyyy): 12/20/2023	
☐ Compliant – Certificate of compliance*	
(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 upgraded, replaced, or its use discontinued within ten months of receipt
*Note: Compliance indicates conformance with Minn. R. 7080.1500 as of system status date above and does not guarantee future performance.	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 applicab	ole)
☐ Impact on public health (Compliance component #1)	– Imminent threat to public health and safety
☑ Tank integrity (Compliance component #2) – Failing	
Other Compliance Conditions (Compliance components)	,
Other Compliance Conditions (Compliance components)	,
-	2500 (Compliance component #3) – Failing to protect groundwater
☐ Soil separation (Compliance component #5) – Failin	
	npliance component #4) – Noncompliant - local ordinance applies
Comments or recommendations	
Certification	
	to determine the compliance status of this system. No determination of wn conditions during system construction, possible abuse of the system,
By typing my name below, I certify the above statements to be true used for the purpose of processing this form.	and correct, to the best of my knowledge, and that this information can be
Business name: Zierke Soil Testing	Certification number: 9594
Inspector signature: Benjamin Zierke	License number: 119
(This document has been electronically sign	ned) Phone: 651-249-1346
Necessary or locally required supporting do	cumentation (must be attached)
Soil observation logs	equired forms
☐ Other information (list):	

pact on public health — Co Compliance criteria:	omphan	ce comp	Attached supporting documentation:
System discharges sewage to the ground surface	☐ Yes*	⊠ No	☐ Other: ☐ Not applicable
System discharges sewage to drain tile or surface waters.	☐ Yes*	⊠ No	<u>ы</u> постарриваль
System causes sewage backup into dwelling or establishment.	☐ Yes*	⊠ No	
Any "yes" answer above indicates imminent threat to public health ai			
Describe verification methods and	l results:		
nk integrity – Compliance	compoi	nent #2	
Compliance criteria:			Attached supporting documentation:
	e compoi		
Compliance criteria: System consists of a seepage pit, cesspool, drywell, leaching pit, or other pit? Sewage tank(s) leak below their		□ No	Attached supporting documentation: Empty tank(s) viewed by inspector
Compliance criteria: System consists of a seepage pit, cesspool, drywell, leaching pit, or other pit?	⊠ Yes* [□ No	Attached supporting documentation: □ Empty tank(s) viewed by inspector Name of maintenance business:
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Ρ	Property Address: 16060 St Croix Trl N Marine on St Croix, MN 55047	
В	Business Name: Zierke Soil Testing	Date: 12/20/2023
3.	Other compliance conditions – Compliance component #3 of 5	
	3a. Maintenance hole covers appear to be structurally unsound (damaged, cracked, etc.), or unso	ecured?
	☐ Yes* ☑ No ☐ Unknown	
	3b. Other issues (electrical hazards, etc.) to immediately and adversely impact public health or safe	ty? ☐ 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 inspector?	☐ 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.	Attached supporting documentation: ☐ Not applicable ☑ Operating permit and nitrogen BMP* — Compliance component #4 o	of 5 ⊠ Not applicable
<u>4.</u>	Operating permit and nitrogen BMP* – Compliance component #4 o	of 5 🗵 Not applicable If "yes", A below is required
<u>4.</u>	Operating permit and nitrogen BMP* – Compliance component #4 of the system operated under an Operating Permit?	If "yes", A below is required
<u>4.</u>	Operating permit and nitrogen BMP* – Compliance component #4 of the system operated under an Operating Permit? Is the system operated under an Operating Permit? Is the system required to employ a Nitrogen BMP specified in the system design? Yes No	If "yes", A below is required
4.	Operating permit and nitrogen BMP* – Compliance component #4 or Is the system operated under an Operating Permit?	If "yes", A below is required If "yes", B below is required
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siness Name: Zierke Soil Testing		Date: _	12/20/2023	
Soil separation – Compliance cor	mponent #5 o	f 5		
Date of installation Late 60's/Early 70's (mm/dd/yyyy)	Unknown			
Shoreland/Wellhead protection/Food beverage lodging?	⊠ Yes □ No	Attached supporting documentation:	a a ranart	
Compliance suitorie (select ana):		Soil observation logs completed for the report Two previous verifications of required vertical separation. Net applicable (Ne seit treetment area)		
Compliance criteria (select one):	☐ Yes ☐ No*			
5a. For systems built prior to April 1, 1996, and not located in Shoreland or Wellhead	☐ Yes ☐ No	☐ Not applicable (No soil treatment area	a)	
Protection Area or not serving a food, beverage or lodging establishment:		Ш		
Drainfield has at least a two-foot vertical separation distance from periodically				
saturated soil or bedrock.				
5b. Non-performance systems built April 1, 1996, or later or for non- performance systems located in Shoreland or Wellhead Protection Areas or serving a food, beverage, or lodging establishment: Drainfield has a three-foot vertical separation distance from periodically saturated soil or bedrock.*	☐ Yes ⊠ No*	Indicate depths or elevations	T	
		A. Bottom of distribution media	97.8'	
		B. Periodically saturated soil/bedrock	97.8'	
		C. System separation	0.0'	
		D. Required compliance separation*	3.0'	
		*May be reduced up to 15 percent if allowed by Local Ordinance.		
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.				
*Any "no" answer above indicates the s failing to protect groundwater.	system is			

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, 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: 16060 St Croix Trl N Marine on St Croix, MN 55047

Borings Made by Ben Zierke Date: 12/19/2023

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

Depth, in Inches	Boring Number 1	Depth, in Inches	Boring Number 2
0	7.5YR 3/2 sandy loam	0	
18-26"	7.5YR 4/3 sandy loam		
26"	Bedrock		
End of boring at Standing water tabi 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 feet of depth	End of boring at Standing water tak Present at Standing water not j Mottled Soil: Observed at Mottled soil not pre Comments:	feet of depth Hours after boring present in hole feet of depth
Depth, in Inches	Boring Number 3	Depth, in Inches	Boring Number 4
End of boring at	teet	End of boring at	feet
Standing water table 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	Standing water take 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