## ZIERKE SOIL TESTING

Rich Evans 11120 Mayberry Trail N Marine on St Croix, MN 55047

11/15/2022

Dear Rich Evans,

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 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

Benjamin Zieske

ADDRESS: 28587 Jeffrey Ave Chisago City, MN 55013

PHONE 651-249-1346

EMAIL benzierke@gmail.com



## Compliance inspection report form

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

## **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 <a href="https://www.pca.state.mn.us/sites/default/files/wq-wwists4-31a.pdf">https://www.pca.state.mn.us/sites/default/files/wq-wwists4-31a.pdf</a>.

Property information	Local tracking number:			
Parcel ID# or Sec/Twp/Range: 1903220440003	Reason for Inspection Sale			
Local regulatory authority info: Washington County				
Property address: 11120 Mayberry Trail N Marine on St Croix,	MN 55047			
Owner/representative: Rich Evans	Owner's phone: <u>(651)</u> 433-4297			
Brief system description: Pre-cast septic tank and gravity drainf	ield			
System status				
System status on date (mm/dd/yyyy):11/15/2022				
☐ 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.)  *Note: Compliance indicates conformance with Minn. R. 7080.1500 as of system status date above and does not guarantee future performance.	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 or under section 145A.04 subdivision 8.			
Reason(s) for noncompliance (check all applicate	ole)			
☐ Impact on public health (Compliance component #1	) – Imminent threat to public health and safety			
☐ Tank integrity (Compliance component #2) – Failing to protect groundwater				
☐ Other Compliance Conditions (Compliance components)	,			
Other Compliance Conditions (Compliance components)	,			
-	2500 (Compliance component #3) – Failing to protect groundwater			
Soil separation (Compliance component #5) – Failin				
	mpliance component #4) – Noncompliant - local ordinance applies			
Comments or recommendations				
This is a reinspect from a job in 2019. Was present for ta	nk pumping and reverified drainfield function 10/31/2022.			
Certification				
	to determine the compliance status of this system. No determination of wn conditions during system construction, possible abuse of the system,			
,	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 Zieke	License number: 119			
(This document has been electronically sign	ned) Phone: 651-249-1346			
Necessary or locally required supporting do	cumentation (must be attached)			
<ul><li>Soil observation logs</li><li>System/As-Built</li><li>□ Locally re</li><li>□ Other information (list):</li></ul>	equired forms			

tile or surface waters.  System causes sewage backup into dwelling or establishment.  Any "yes" answer above indicates the system is an
tile or surface waters.  System causes sewage backup into dwelling or establishment.  Any "yes" answer above indicates the system is an imminent threat to public health and safety.  Describe verification methods and results:
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None of the above observed during site visit 10/31/2022. Rich reported no past issues with the system.
ank integrity – Compliance component #2 of 5
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Compliance criteria:  System consists of a seepage pit, cesspool, drywell, leaching pit, or other pit?  Attached supporting documentation:  □ Yes* □ No □ Yes* □ No □ Name of maintenance business: □ Sr
Compliance criteria:  System consists of a seepage pit, cesspool, drywell, leaching pit, or other pit?  Sewage tank(s) leak below their designed operating depth?  Attached supporting documentation:  □ Yes* □ No □ License number of maintenance business: 24
Compliance criteria:  System consists of a seepage pit, cesspool, drywell, leaching pit, or other pit?  Sewage tank(s) leak below their designed operating depth?  Attached supporting documentation:  □ Yes* □ No □ License number of maintenance business: 24 □ Date of maintenance: 10
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Р	Property Address: _ 11120 Mayberry Trail N Marine on St Croix, MN 55047	
	Susiness Name: Zierke Soil Testing	Date: 11/15/2022
3.	Other compliance conditions – Compliance component #3 of 5	
	3a. Maintenance hole covers appear to be structurally unsound (damaged, cracked, etc.), or unse	ecured?
	☐ Yes* ☐ No ☐ Unknown	ng □ Vaa* □ Na □ Halaa aan
	3b. Other issues (electrical hazards, etc.) to immediately and adversely impact public health or safet	y? ☐ Yes" ⊠ No ☐ Unknown
	*Yes to 3a or 3b - System is an imminent threat to public health and safety.	D.V. D.N.
	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.	Operating permit and nitrogen BMP* – Compliance component #4 o	of 5 ⊠ Not applicable
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<u>4.</u>	Operating permit and nitrogen BMP* – Compliance component #4 or Is the system operated under an Operating Permit?   Yes   No Is the system required to employ a Nitrogen BMP specified in the system design?   Yes   No BMP = Best Management Practice(s) specified in the system design	If "yes", A below is required If "yes", B below is required
4.	Operating permit and nitrogen BMP* – Compliance component #4 or 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  If the answer to both questions is "no", this section does not need to be completed.	If "yes", A below is required If "yes", B below is required
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https://www.pca.state.mn.us wq-wwists4-31b • 4/28/2021

usiness Name: Zierke Soil Test					Date: <u>1</u>	1/15/2022
Soil separation – Con	npliance com	pone	nt #5 o	f 5		
Date of installation 1986 (mm/dd		Unkn	own			
Shoreland/Wellhead protect beverage lodging?	ion/Food [	☐ Yes	⊠ No	Attached supporting do  ☑ Soil observation logs of		e report
Compliance criteria (sele	ct 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	Yes □ No*	☐ Not applicable (No soi	l treatment area	n)
Drainfield has at least a two separation distance from p 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		Yes	☐ No*	Indicate depths or ele	vations	
		,		A. Bottom of distribution	media	95.8'
				B. Periodically saturated	soil/bedrock	92.7'+
				C. System separation		3.1'+
separation distance from periodically saturated soil or bedrock.*				D. Required compliance	separation*	2.0'
				*May be reduced up to <sup>2</sup> Ordinance.	5 percent if allo	owed by Local
5c. "Experimental", "Other", or systems built under pre-20 Type IV or V systems built Rules 7080. 2350 or 7080. (Intermediate Inspector Lic 2,500 gallons per day; Adv License required > 2,500 g	08 Rules; under 2008 2400 ense required ≤ anced Inspector	Yes	□ No*			
Drainfield meets the design separation distance from p saturated soil or bedrock.						

Soil observation taken adjacent to bottom trench (lowest elevation) and elevations recorded (see sketch)

**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.

800-657-3864

## **Logs of Soil Borings**

Location of Project:

11120 Mayberry Trl Marine on St Croix, MN 55047

Borings Made by Ben Zierke

Date:

9/13/2019

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

Depth, in Inches 0 0-6" 6-28" 28-60"	Boring Number 1  10YR 3/3 loamy sand  10YR 4/3 loamy sand, 5% rock  10YR 4/4 fine sand, 5% rock  10YR 6/3 fine sand, fine 4/6 bands, 0% rock	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  feet of depth Feet 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 O	Boring Number 4
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	End of boring at Standing water tabl Present at Standing water not p Mottled Soil: Observed at Mottled soil not prese Comments:	feet of depth Hours after boring resent in hole feet of depth

