ZIERKE SOIL TESTING

Meagan Culp 8478 147th St N Hugo, MN 55038

June 15th 2023

Dear Meagan Culp,

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 indicators of seasonally wet soil (redoximorphic features). Therefore, 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: 2303121220002	Reason for Inspection Sale
Local regulatory authority info: Washington County	
Property address: 8478 147th St N Hugo, MN 55038	
Owner/representative: Meagan Culp (buyer)	Owner's phone: 651-353-5038
Brief system description: 1250 gallon septic tank, 1000 gallon s	eptic tank, gravity rock trench drainifeld
System status	
System status on date (mm/dd/yyyy): 6/15/2023	
☐ 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 abatement under section 145A.04, subdivision 8 is discovered or	Systems failing to protect ground water must be upgraded, replaced, or use discontinued within the time required by local ordinance.
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 applicate	ole)
 □ Other Compliance Conditions (Compliance compone □ System not abandoned according to Minn. R. 7080. □ Soil separation (Compliance component #5) – Failin □ Operating permit/monitoring plan requirements (Corcomments or recommendations 	to protect groundwater ent #3) – Imminent threat to public health and safety ent #3) – Failing to protect groundwater 2500 (Compliance component #3) – Failing to protect groundwater in the protect groundwater in pliance component #4) – Noncompliant - local ordinance applies field at that time. Drainfield age is unknown, however was previously
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 logsSystem/As-Built□ Locally re□ Other information (list):	equired forms

npact on public health – Co	ompliance comp	ponent #1 of 5	
Compliance criteria:		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		
System causes sewage backup into dwelling or establishment.	☐ Yes* ⊠ No		
Any "yes" answer above indicates imminent threat to public health ar			
Describe verification methods and	results:		
None of the above observed during s	site visit 6/14/2023.		
nk integrity – Compliance Compliance criteria:	component #2	of 5 Attached supporting documentation:	
	component #2		
Compliance criteria: System consists of a seepage pit,		Attached supporting documentation:	Smilies
Compliance criteria: System consists of a seepage pit, cesspool, drywell, leaching pit, or other pit? Sewage tank(s) leak below their		Attached supporting documentation: Empty tank(s) viewed by inspector Name of maintenance business: License number of maintenance business	s: <u>2428</u>
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: License number of maintenance business Date of maintenance:	6/14/2023
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 documentation: Empty tank(s) viewed by inspector Name of maintenance business: License number of maintenance business Date of maintenance: Existing tank integrity assessment (Attach	6/14/2023
Compliance criteria: System consists of a seepage pit, cesspool, drywell, leaching pit, or other pit? Sewage tank(s) leak below their designed operating depth?	☐ Yes* ☑ No	Attached supporting documentation: Empty tank(s) viewed by inspector Name of maintenance business: License number of maintenance business Date of maintenance:	6/14/2023 n)
Compliance criteria: System consists of a seepage pit, cesspool, drywell, leaching pit, or other pit? Sewage tank(s) leak below their	☐ Yes* ☒ No ☐ Yes* ☒ No ☐ Yes* ☒ No ☐ Ates the system	Attached supporting documentation: Empty tank(s) viewed by inspector Name of maintenance business: License number of maintenance business Date of maintenance: Existing tank integrity assessment (Attack	6/14/2023 n) three years)
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 ☐ Yes* ☒ No ☐ Yes* ☒ No ☐ Ates the system	Attached supporting documentation: Empty tank(s) viewed by inspector Name of maintenance business: License number of maintenance business Date of maintenance: Existing tank integrity assessment (Attach Date of maintenance (mm/dd/yyyy): (See form instructions to ensure assessment)	three years) sent complies

https://www.pca.state.mn.us wq-wwists4-31b • 4/28/2021

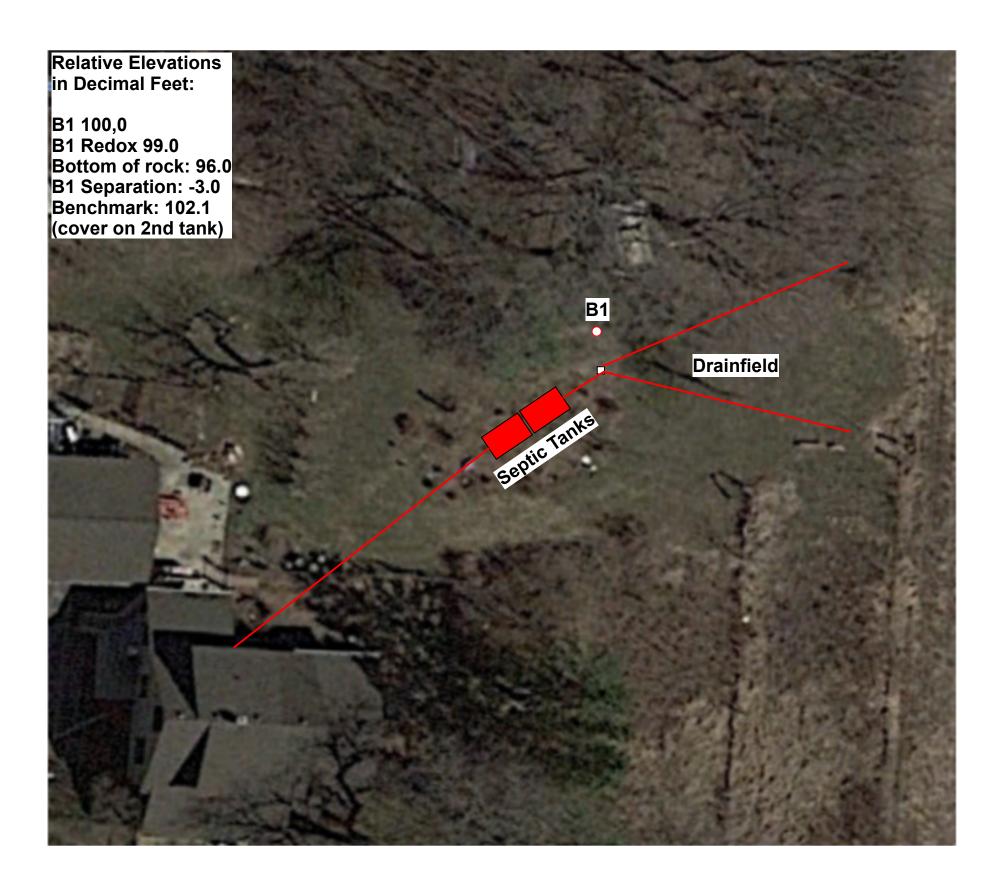
Р	roperty Address: 8478 147 th St N Hugo, MN 55038	
В	usiness Name: Zierke Soil Testing	Date: 6/15/2023
3.	Other compliance conditions – Compliance component #3 of 5	
	3a. Maintenance hole covers appear to be structurally unsound (damaged, cracked, etc.), or unso	ecured?
	☐ Yes* ☑ No ☐ Unknown	
	3b. 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 announcesting decrementations Net applicable	
	Attached supporting documentation: Not applicable	
1	Operating permit and nitrogen BMP* – Compliance component #4 c	of E Matanaliaahla
 -	Operating permit and introgen bivir — compliance component #4 c	Not applicable
	Is the system operated under an Operating Permit? ☐ Yes ☐ No	If "yes", A below is required
	Is the system required to employ a Nitrogen BMP specified in the system design? \square Yes \square No	If "yes", B below is required
	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 complete	d.
	Compliance criteria:	
	a. Have the operating permit requirements been met? ☐ Yes ☐ No	
	b. Is the required nitrogen BMP in place and properly functioning? ☐ Yes ☐ No	
	Any "no" answer indicates noncompliance.	
	Describe verification methods and results:	
	booting volinication moting and rocatio.	
	Attached cumparting decumpartations	
	Attached supporting documentation: Operating permit (Attach)	

usiness Name: Zierke Soil Testing		Date: 6	6/15/2023	
Soil separation – Compliance co	mponent #5 o	f 5		
Date of installation 4/18/1997 (mm/dd/yyyy)	_			
Shoreland/Wellhead protection/Food beverage lodging?	☐ Yes 🛛 No	No Attached supporting documentation:		
		$oxed{\boxtimes}$ Soil observation logs completed for th	ne 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☐	a)	
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		
		A. Bottom of distribution media	96.0'	
		B. Periodically saturated soil/bedrock	99.0'	
		C. System separation	-3.0'	
		D. Required compliance separation*	3.0'	
		*May be reduced up to 15 percent if allo Ordinance.	owed 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)				
Drainfield meets the designed vertical separation distance from periodically saturated soil or bedrock.				

See attached sketch and boring log.

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: 8478 147th St N Hugo, MN 55038

Borings Made by Ben Zierke Date: 6/14/2023

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

Depth, in Inches	Boring Number 1	Depth, in Inches	Boring Number 2
0	10YR 3/2 fine sandy loam	0	
18-21"	10YR 6/4 fine sandy loam, 7.5YR 5/6 iron stains, 10YR 6/2 depletions		
21-32"	10YR 5/4 silt loam		
32-42"	10YR 4/4 silt loam, 7.5YR 5/8 and 10YR 5/2 redox *12" separation credit		
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 1 feet of depth 1 feet of dept	End of boring at Standing water tal 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		0	
	feet	End of boring at	feet