## **ZIERKE SOIL TESTING**

Dean Barr 21717 Olinda Lane N Scandia, MN 55073

October 5th, 2022

Dear Dean Barr,

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 Zierke

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 <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: 1403220240003	Reason for Inspection Sale
Local regulatory authority info: Washington County	
Property address: 21717 Olinda Lane N Scandia, MN 55073	
Owner/representative: Dean Barr	Owner's phone: 612-810-0089
Brief system description: Pre-cast septic tank, gravity rock trend	ch drainfield
System status	
System status on date (mm/dd/yyyy): _ 10/5/2022	
☐ 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.)	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 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)	ent #3) – Imminent threat to public health and safety
☐ Other Compliance Conditions (Compliance components)	ent #3) – Failing to protect groundwater
System not abandoned according to Minn. R. 7080.	2500 (Compliance component #3) – Failing to protect groundwater
Soil separation (Compliance component #5) − Failing	ng to protect groundwater
☐ Operating permit/monitoring plan requirements (Cor	mpliance 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.	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: Benjamin Zierke	License number: 119
(This document has been electronically sig	nned) Phone: <u>651-249-1346</u>
Necessary or locally required supporting do	cumentation (must be attached)
☐ Soil observation logs ☐ System/As-Built ☐ Locally re	required forms
Other information (list):	

ground surface ⊠ Not applicable  System discharges sewage to drain tile or surface waters. □ Yes* ☑ No			·	pact on public health – Compliance component #1 of 5	Compliance criteria:		Attached supporting documentation:	
tile or surface waters.		Compliance criteria: Attached supporting documentation:	Compliance criteria: Attached supporting documentation:	·		☐ Yes* ⊠ No		
		System discharges sewage to the ☐ Yes* ☒ No ☐ Other:	System discharges sewage to the Yes* No Other:	Compliance criteria:  System discharges sewage to the ground surface  Attached supporting documentation:  Other:		☐ Yes* ☒ No	_ ,,	
System causes sewage backup into ☐ Yes* ☒ No dwelling or establishment.		System discharges sewage to the ground surface  Yes* No Other: Not applicable  System discharges sewage to drain	System discharges sewage to the ground surface	Compliance criteria:  System discharges sewage to the ground surface  Attached supporting documentation:  Other:  Not applicable	System causes sewage backup into dwelling or establishment.	☐ Yes* ☒ No		
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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 the system is failing to protect groundwater.  Attached supporting documenta  Empty tank(s) viewed by inspector  Name of maintenance business:  License number of maintenance business:  Existing tank integrity assessment  Date of maintenance (mm/dd/yyyy): (must be designed operating to protect groundwater.)  (See form instructions to ensure as Minn. R. 7082.0700 subp. 4 B (1))	ess: Smilies ance business: 2428 9/21/202 sment (Attach) sust be within three year sure assessment comple B (1))	System discharges sewage to the ground surface  System discharges sewage to drain litle 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:  None of the above observed during site visits 9/21/2022 and 9/29/2022.   **Ratched supporting documentation:**  System consists of a seepage pit, cresspool, drywell, leaching pit, or other pit?  Sewage tank(s) leak below their designed operating depth?  Any "yes" answer above indicates the system is failing to protect groundwater.  System discharges sewage to the grow of the pit?  Not applicable  Not application and immerion.  Not application and immerion.  Not applica	System discharges sewage to the ground surface  System discharges sewage to drain lie or surface waters.  System causes sewage backup into by yes* No by System causes sewage backup into by Welling or establishment.  Any "yes" answer above indicates the system is an imminent threat to public health and safety.  Describe verification methods and results:  None of the above observed during site visits 9/21/2022 and 9/29/2022.  Attached supporting documentation:  System consists of a seepage pit, cesspool, drywell, leaching pit, or other pit?  Sewage tank(s) leak below their designed operating depth?  Any "yes" answer above indicates the system is falling to protect groundwater.  System consists of a seepage pit, leaks:  Any "yes" answer above indicates the system is falling to protect groundwater.  Other:  Not applicable  Attached supporting documentation:  Empty tank(s) viewed by inspector  Name of maintenance business: Smillies  License number of maintenance business: 2428  Date of maintenance:  (must be within three years;  (See form instructions to ensure assessment complies than in the system is falling to protect groundwater.	Attached supporting documentation:  System discharges sewage to the ground surface  System discharges sewage to drain lile or surface waters.  System discharges sewage backup into	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 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 assessm  Minn. R. 7082.0700 subp. 4 B (1))	9/21/2022  three years  ent complie
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		scharges sewage to the face  Yes* No Other:  Not applicable  Scharges sewage to drain  Yes* No	scharges sewage to the face  Yes* No Other:  Not applicable  Scharges sewage to drain  Yes* No	Attached supporting documentation:  Scharges sewage to the face  Other:  Not applicable  Scharges sewage to drain  Yes* No	uoon nowana hasima int-	□ Voc* □ Na		
		System discharges sewage to the ground surface	System discharges sewage to the ground surface	Compliance criteria:  System discharges sewage to the ground surface  Attached supporting documentation:  Other:  No applicable				
tile or surface waters.		System discharges sewage to the	System discharges sewage to the Yes* No Other:	Compliance criteria:  System discharges sewage to the ground surface  Attached supporting documentation:  Other:	System discharges sewage to drain	☐ Yes* ⊠ No		
tile or surface waters.		System discharges sewage to the	System discharges sewage to the Yes* No Other:	Compliance criteria:  System discharges sewage to the ground surface  Attached supporting documentation:  Other:		+	☑ Not applicable	
tile or surface waters.		System discharges sewage to the	System discharges sewage to the Yes* No Other:	Compliance criteria:  System discharges sewage to the ground surface  Attached supporting documentation:  Other:	9		Not applicable	
System discharges sewage to drain tile or surface waters. □ Yes* □ No		System discharges sewage to the ☐ Yes* ☒ No ☐ Other:	System discharges sewage to the ☐ Yes* ☒ No ☐ Other:	Compliance criteria:  System discharges sewage to the Yes* No Attached supporting documentation:  Other:	ground surface		M Not applicable	
System discharges sewage to drain tile or surface waters.				Compliance criteria: Attached supporting documentation:		L res Z 140		
ground surface		Compliance criteria: Attached supporting documentation:	Compliance criteria: Attached supporting documentation:	·	System discharges sewage to the	☐ Yes* ☒ No	☐ Other:	
ground surface  Not applicable  System discharges sewage to drain tile or surface waters.		Compliance criteria: Attached supporting documentation:	Compliance criteria: Attached supporting documentation:	·			J J	
System discharges sewage to the ground surface  □ Yes* □ No □ Other: □ Not applicable  System discharges sewage to drain tile or surface waters.			·	·	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.	mentation:			pact on public health – Compliance component #1 of 5				
Compliance criteria:  System discharges sewage to the ground surface  System discharges sewage to drain lile or surface waters.  Attached supporting documenta  □ Yes* □ No □ Other: □ Not applicable	mentation:	and an architectural Consultance and and of C		ss Name: Zierke Soil Testing Date: 10/5/2022	nast on public health Co			

Pr	operty Address: 21717 Olinda Lane N Scandia, MN 55073	
Bu	usiness Name: Zierke Soil Testing	Date: 10/5/2022
3.	Other compliance conditions – Compliance component #3 of 5	
	3a. Maintenance hole covers appear to be structurally unsound (damaged, cracked, etc.), or unse	cured?
	☐ Yes* ☑ No ☐ Unknown	
	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.	
	3c. System is non-protective of ground water for other conditions as determined by inspector?	☐ Yes*
	3d. System not abandoned in accordance with Minn. R. 7080.2500?	☐ Yes*
	*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 nitragen DNAD* Compliance common and #4.	<b>f</b>
4.	Operating permit and nitrogen BMP* – Compliance component #4 o	f 5 🛭 Not applicable
4.		f 5 Not applicable  If "yes", A below is required
4.		If "yes", A below is required
4.	Is the system operated under an Operating Permit? ☐ Yes ☐ No	If "yes", A below is required
4.	Is the system operated under an Operating Permit?  Is the system required to employ a Nitrogen BMP specified in the system design?   Yes No I No	If "yes", A below is required If "yes", B below is required
4.	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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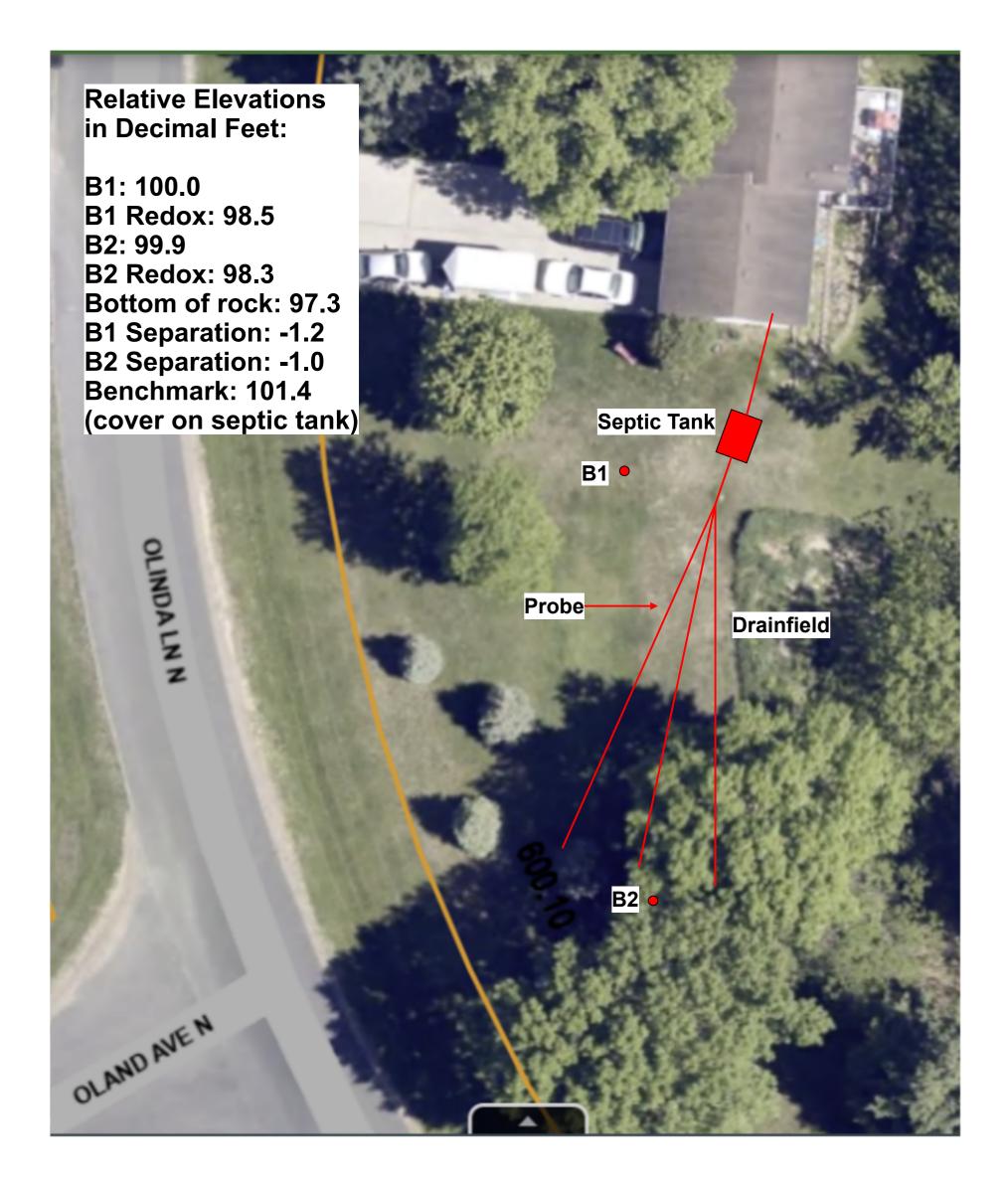
https://www.pca.state.mn.us wq-wwists4-31b • 4/28/2021

usiness Name: Zierke Soil Testing		Date: _	10/5/2022
Soil separation – Complianc	e component #5 o	f 5	
Date of installation 9/13/1983 (mm/dd/yyyy)	Unknown		
Shoreland/Wellhead protection/Food beverage lodging?	☐ Yes ☐ No	Attached supporting documentation:  Soil observation logs completed for the	•
Compliance criteria (select one):		☐ Two previous verifications of required	d vertical separation
5a. For systems built prior to April 1, 199 not located in Shoreland or Wellhead Protection Area or not serving a food beverage or lodging establishment:		☐ Not applicable (No soil treatment are	a)
Drainfield has at least a two-foot vert separation distance from periodically saturated soil or bedrock.			
5b. Non-performance systems built	☐ Yes ☒ No*	Indicate depths or elevations	
April 1, 1996, or later or for non- performance systems located in Sho	reland	A. Bottom of distribution media	97.3'
or Wellhead Protection Areas or serv food, beverage, or lodging establishn	ring a	B. Periodically saturated soil/bedrock	98.5'
Drainfield has a three-foot vertical	non.	C. System separation	-1.2'
separation distance from periodically		D. Required compliance separation*	3.0'
saturated soil or bedrock.*		*May be reduced up to 15 percent if all Ordinance.	owed by Local
5c. "Experimental", "Other", or "Performa systems built under pre-2008 Rules; Type IV or V systems built under 200 Rules 7080. 2350 or 7080.2400 (Intermediate Inspector License requ 2,500 gallons per day; Advanced Inspec	ired ≤ pector		
Drainfield meets the designed vertical separation distance from periodically saturated soil or bedrock.	al		

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.

800-657-3864



## **Logs of Soil Borings**

Location of Project: 21717 Olinda Ln N Scandia, MN 55073

Borings Made by Ben Zierke Date: 9/21/2022

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

Depth, in Inches	Boring Number 1	Depth, in Inches	Boring Number 2
0-4"	10YR 3/3 medium sand	0-10"	10YR 3/3 sandy loam
4-18"	10YR 4/4 coarse sand, 20% rock	10-19"	10YR 4/4 sandy loam
18-24"	10YR 4/4 sandy loam, 7.5YR 5/8 and 10YR 6/2 redox	19-24"	10YR 5/3 clay loam, 7.5YR 5/8 and 10YR 6/1 redox
End of boring at  Standing water table Present at Standing water not p  Mottled Soil: Observed at Mottled soil not pres Comments:	teet of depth Hours after boring resent in hole X  1.5 feet of depth	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   1.6 feet of depth
Depth, in Inches 0	Boring Number 3	Depth, in Inches	Boring Number 4
End of boring at  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	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